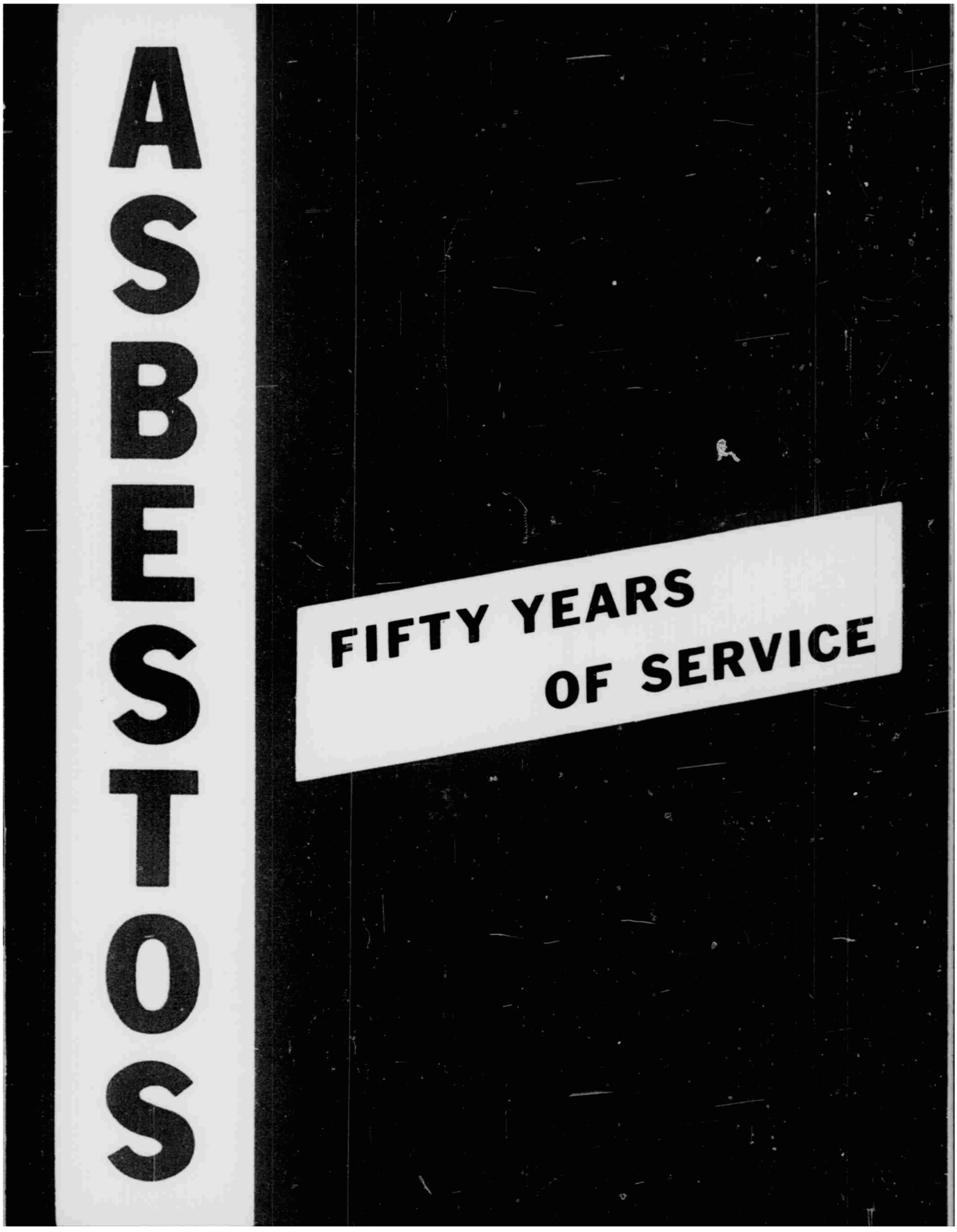

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ASBESTOS

VOLUME 51 MARCH 1970 NUMBER 9

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THE FELT IN ASBESTOS CEMENT MANUFACTURE

The felt is a most important component of any asbestos-cement machine whether for the production of sheets or pipe. It performs a mechanical function, serving as a transmission belt for motive power between driving and driven rolls. It further performs the function of draining and carrying forward the forming sheet. It is, by its very nature, necessary that the felt be in the form of an endless band or belt, that it have adequate tensile strength and that its structure be such as to permit proper drainage of excess water from the forming sheet.

The original use of felts for these purposes was on paper machines. Such felts were made of wool. Nature's endowment of wool with characteristics which allow it to be spun and woven with precision and, above all, to "full" or "felt" into a strong, stable cloth made it ideal for the purpose.

When Louis Hatschek first attempted to produce asbestos-cement sheets by a mechanical process around 1899, it is significant to note he was familiar with papermaking machinery and had a paper machine on the site where his original experiments with asbestos-cement products were conducted. He was adapting to his own purposes the principles he saw in the papermaking process and one of the main components of the paper machine was the "felt" which transported and drained the forming sheet.

Although the papermaker's felt was there as a prototype, there were major differences to be considered when adapting the same principles to the manufacture of asbestos-cement products. The relatively thin water suspension of cellulose fiber on the paper machine was replaced by a much coarser and heavier slurry of asbestos fibers, cement and water so a stronger and more "open" felt was required. More important, the high alkalinity of the asbestos-cement slurry was very injurious to woolen felts and caused their rapid deterioration. Since cotton is much more resistant to alkalies than wool, a technique for felt manufacture was evolved utilizing a maximum amount of cotton and a minimum amount of wool. While the volume of production per felt was small by today's standards, at least here was a felt capable of meeting the chemical and physical requirements of the asbestos-cement process.

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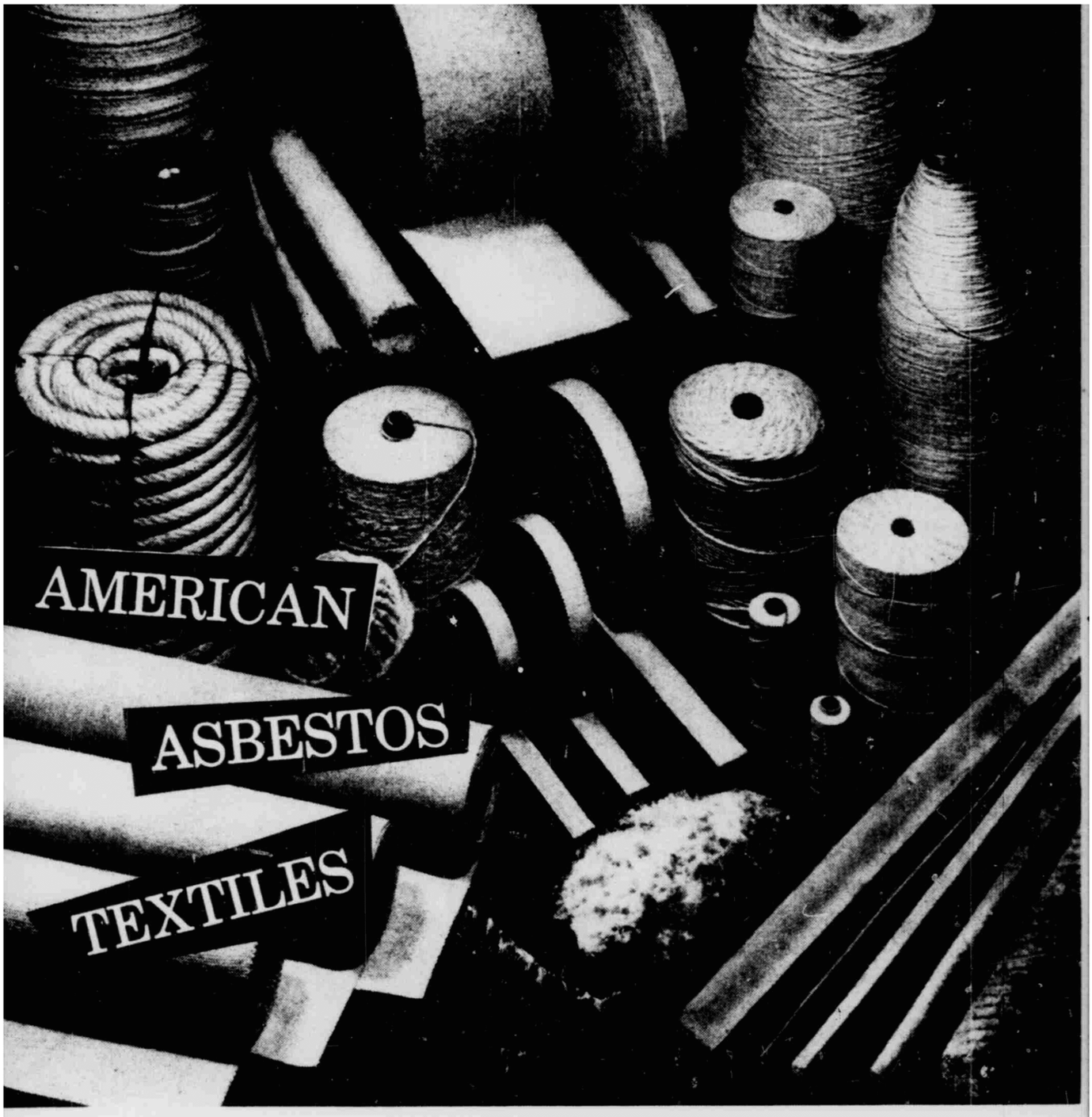
This state of things prevailed until science produced a polyamide called "nylon." Here was a man-made fiber which possessed all the properties desired as a component of felts for asbestos-cement manufacture. It had high strength, abrasion resistance and, above all, was impervious to alkaline attack. It was first introduced into asbestos-cement felts to strengthen their texture and felts composed of nylon, cotton and wool became the order of the day and resulted in an encouraging rise in production per felt.

While such felts of mixed fibers represented a considerable advance over those previously used, it was soon recognized that better felts might well be produced by changes in methods of manufacture designed to take even greater advantage of the unique properties of nylon. Research along this line eventually led to the development of "needled," all-nylon felts.

In the production of carpet underlays and similar materials it was common practice to attach a mass of loose fibers to a woven base by a process known as "needling." In this process, barbed needles carrying the loose fibers are punched into the base fabric and, because of the direction of the barbs on the needles, the loose fibers are left entwined in the fabric when the needles are withdrawn.

The firm of Thomas Hardman & Sons Ltd., which had been active in production of papermaking machine felts for many years and had also been engaged in making felts for asbestos-cement process machines since the inception of the Hatschek process, adapted this technique to the manufacture of all-nylon asbestos-cement felts but with one very significant difference. In their new process, no loose fibers were added to the base fabric. The entire fiber mass was teazled up from the woven fabric base. This principle proved of particular value when applied to nylon and other man-made fibers whose inherently slippery nature made it difficult to insure their entwinement in, and adherence to, any base fabric. Needling the entire felt from the base fabric insured that the fibers were not only entwined at various points along their lengths but that they were also firmly anchored at one end, having originated from the yarns of the base cloth. Here, now, was a process which made possible the manufacture of stable felts made entirely of nylon. These offered important advantages to the operators of asbestos-cement machines.

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From a purely mechanical point of view, the greater strength of the nylon felt increased its ability to transmit power from the driving to the driven rolls of the machine and hence made possible significant increases in machine speeds.

At the same time, the felts could be made with almost any desired degree of openness and with many gradations of density of fiber and degrees of needling, permitting very precise control of felt structure and "custom tailoring" of felts to achieve the best performance in any particular machine or process. By exercise of such control of felt structure it has been possible to provide felts with drainage capabilities sufficient to accommodate the highest machine speeds now in general use.

An interesting trend over the years has been the gradual increase in the substance weight of felts. In the early days a common felt weight was 3 oz. per square foot. As the all-nylon, needled felts came into wider use, the normal weight rose to about 4½ oz. per square foot. Improvements in asbestos-cement machines in the areas of suction boxes and cleaning spray arrangements have now made it possible to take full advantage of the extra strength and wearing qualities of felts weighing 5 oz. per square foot or more.

Although different grades of asbestos fiber and different cement-water mixes can result in quite different degrees of drainage, by and large the felt and its ancillary equipment govern production capabilities of any asbestos-cement machine and the felt itself is a most vital part of the entire system. The intelligent application of nylon and other man-made fibers to the manufacture of such felts has contributed tremendously to the increased productivity of such machines.

GAF ASBESTOS PRODUCTS—The Industrial Products Division of GAF Corporation is offering Technical Bulletin 1069-A, a new four-page brochure describing its line of asbestos products. The booklet gives descriptions, possible uses and specification data on GAF commercial asbestos paper, asbestos rollboard, asbestos millboard and asbestos electrolytic paper.

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MERGER AGREEMENT—A formal agreement has been executed with regard to the merger of *Philip Carey Corporation*, a wholly-owned subsidiary of *Glen Alden Corporation*, into *Briggs Manufacturing Company*, Sterling Heights, Michigan. The name of the surviving corporation will be "Panacon Corporation" and both Philip Carey and Briggs will operate as divisions of Panacon.

The agreement calls for the issuance of 4,644,000 shares of the surviving corporation's common stock and 7,356,000 shares of the surviving corporation's class A common stock to Glen Alden in exchange for all the outstanding stock of Philip Carey. In connection with the merger, Briggs common stock will be converted from no par to $1.00 par per share. Briggs' shares are traded on the Detroit Stock Exchange and it is proposed that the Panacon shares will continue to be traded on that exchange. The merger is subject to several conditions including the approval of stockholders of Briggs and of certain creditors of Glen Alden and Philip Carey.

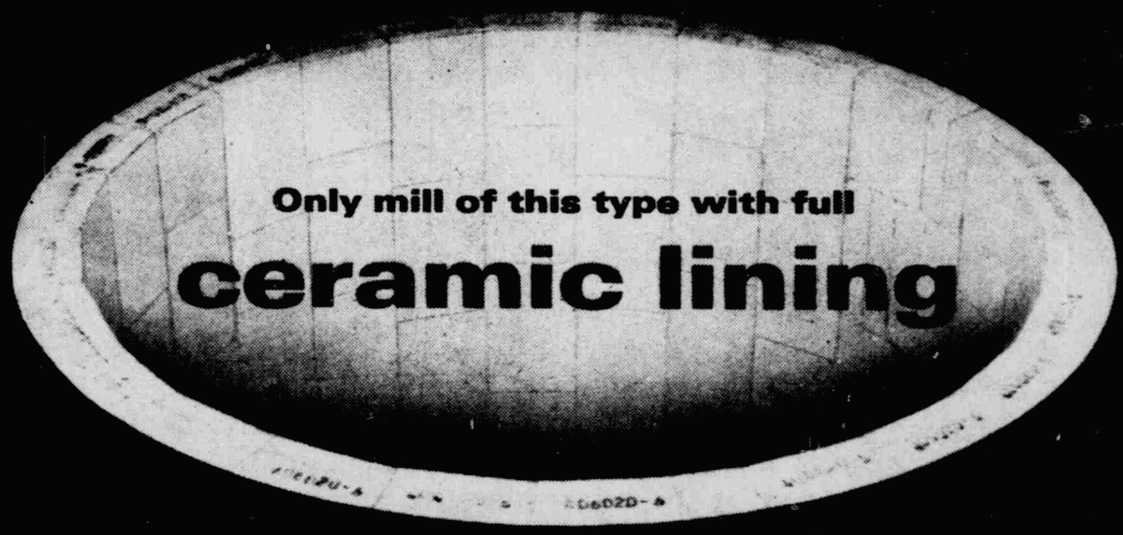
Glen Alden owns approximately 48% of the 3,590,099 shares of Briggs common stock presently outstanding. Briggs is engaged principally in the manufacture and sale of plumbing fixtures and water heaters and operates the Western Tire Auto Stores chain of retail automobile supply outlets. Philip Carey is principally engaged in the manufacture and sale of a variety of building materials, the mining, milling and selling of asbestos fibers and the manufacture and sale of kitchen and bathroom accessories.

THE CARBORUNDUM COMPANY, Niagara Falls, New York, announced the acquisition of *Spencer & Halstead Limited*, Ossett, Yorkshire, England. Spencer & Halstead is a privately-owned firm and is the English licensee for the Carborundum Pangborn Division line of blast cleaning machines, air pollution control equipment and steel abrasives. Its many years of experience in manufacturing dust collecting equipment will serve as the nucleus for Carborundum's expansion in air pollution control in Europe.

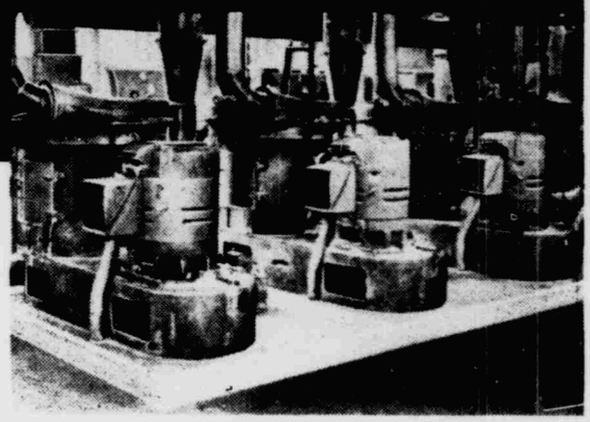
Terms of the agreement call for the purchase of 75% of the stock of S&H for an undisclosed amount of cash. Carborundum purchased a 25% interest in the British firm five years ago.

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A subsidiary of Combustion Engineering, Inc.

BAUER

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WARN INTERNATIONAL was chartered on December 17, 1969, as a new corporation. It is a wholly-owned subsidiary of *Warn Industries,* Seattle, Washington, and will be the international trading arm of the automotive accessory manufacturer.

ASARCO (American Smelting and Refining Company) has agreed to sell 2,028,000 shares of stock of General Cable Corporation to *British Insulated Callender's Cables Limited* for cash at $24.00 per share, for an aggregate purchase price of approximately $48,000,000. The sale is subject to approval by shareholders of British Insulated and certain governmental clearances in the United States and Great Britain.

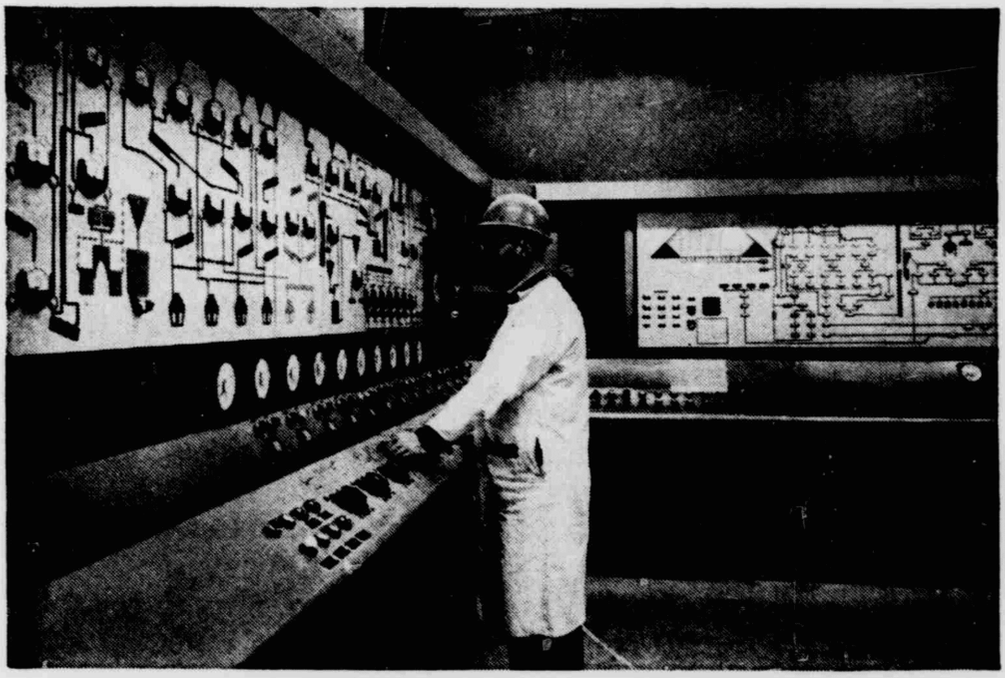
LICENSING OPPORTUNITIES—The American Embassy, Buenos Aires, has announced the following licensing opportunities with companies in Argentina.

Protex-Tuffkote Argentina S.A., Avenue 7 esq. 4, Barrio Santa Isabel, Cordoba, is interested in obtaining a license from a United States firm to manufacture roof coatings and concrete additives.

Casiba S.A., Avenue Mitre 435, Caseros, Buenos Aires, is a medium-sized corporation engaged in the manufacture of expanded metals and air filters. The company is interested in obtaining a license from an American company to manufacture industrial air filter elements.

RAYBESTOS-MANHATTAN, INC., has combined its Equipment Sales and Plastic Products Divisions into an expanded Equipment Sales Division. The change was effective January 15 and is designed to provide customers of both divisions with better service, since both divisions share many of the same customers. Division headquarters will be located at the company's executive offices at 205 Middle Street, Bridgeport, Connecticut. The Equipment Sales Division handles sales of R/M's friction materials to the Original Equipment market and it will also seek increased commercial market penetration for the corporation's high-temperature reinforced plastic and TFE products.

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Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

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It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P. Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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ATI General Meeting

The Asbestos Textile Institute held its first General Meeting of the year at the Regency Hyatt House, Atlanta, Georgia, February 4-6, 1970.

The usual committee meetings were held by the Technical, Air Hygiene & Manufacturing, Asbestos Advisory, Fiber Testing and Environmental Study Committees.

The proposed revision of the booklet "Method for Determining Asbestos Dust Concentration" was approved. The revision constitutes the inclusion of data on the Membrane Filter Method. Also approved was the proposal by the Asbestos Advisory Committee to issue a pamphlet containing information of interest to users of asbestos textiles.

Upon the recommendation of the Environmental Study Committee, a proposal was approved, in principle, by the Board of Governors, that the extensive program carried out by the asbestos textile industry over the last 20-30 years to protect the health of its employees be compiled and made available to ATI members.

Two new applications for Associate Membership in the Institute were approved by the Board of Governors: Nippon Asbestos Co. Ltd., Tokyo, Japan; and Asbestos Textil, S.A., Tulancingo, Mexico. This brings the total of Associate Members to 10 companies located in Canada, Mexico, England, France and Japan.

The guest speaker at the General Meeting was Mr. J. W. Guthridge, Placement Director for the Georgia Institute of Technology. Mr. Guthridge discussed the interesting and informative subject "What the Student is Looking For in Industry Today."

THE NEXT GENERAL MEETING of the Asbestos Textile Institute will be held at Thetford Mines, Quebec, Canada, June 10-12, 1970.

NATIONAL GYPSUM COMPANY declared a regular quarterly dividend on its common stock of $.26¼ per share payable April 1 to holders of record March 10. The Board of Directors also declared a regular quarterly dividend of $1.12½ per share on its preferred stock payable March 1 to holders of record February 9.

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J-M AWARDED GOVERNMENT CONTRACT—Johns-Manville Corporation has been awarded a contract for over $174,000 by the U.S. Coast Guard to develop a design concept for a light-weight oil containment system for use on the high seas. Mr. H. J. Reynolds will head the project for J-M.

In recent years, major problems caused by oil spillage in such diverse places as Great Britain, California and Puerto Rico received wide press coverage. The resulting cost of millions of dollars of damage to wild-life and resort areas dramatized the need for better control of oil pollution.

A pioneer in oil removal and containment, John-Manville was among the first to market pollution control products. J-M engineers have perfected a floating mechanical barrier, patented under the name "Spillguard," which was designed to check limited oil spills in rivers and harbors. This product proved effective in two-foot waves and three-knot currents.

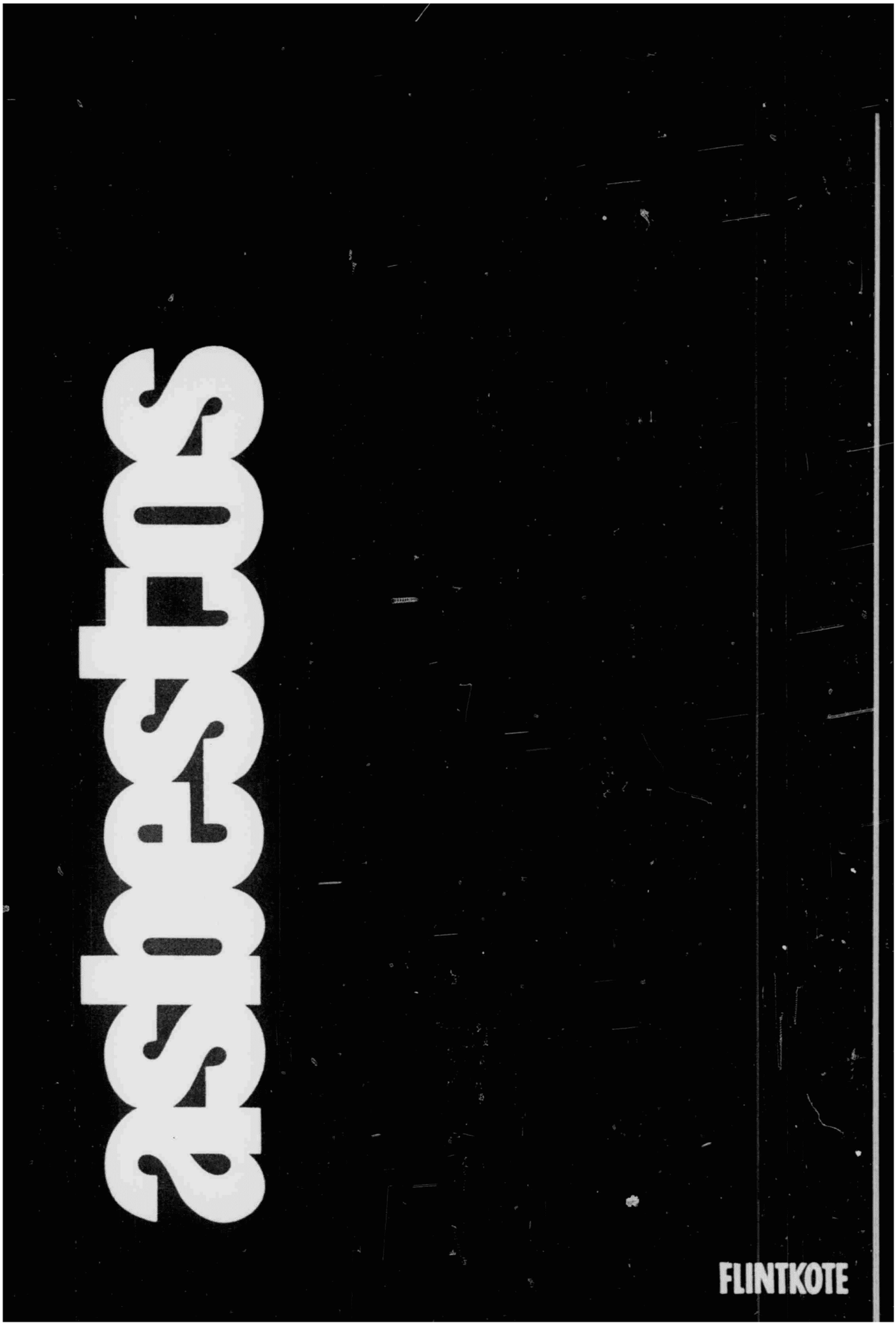
Using its experience with "Spillguard" as a basis, J-M will seek to design, according to Coast Guard requirements, a system that will contain oil in the presence of five-foot waves and 20mph winds in two-knot currents.

Working on the project with J-M will be the Arthur D. Little Research Organization and a team of fluid dynamic experts from Charles River Association, headed by Dr. David P. Hoult who is also associated with the Massachusetts Institute of Technology.

The model will be tested by means of computers in a mathematical simulation of specific sea conditions before prototype construction is authorized for off-shore performance runs.

HARNISCHFEGER, Milwaukee, Wisconsin, has announced a new electrical drive system for slope and small mine hoists. The new *AC static stepless Magnetorque drive* has the performance of an adjustable voltage MG set drive at approximately the cost of a simple wound rotor motor drive. Controlled rates of acceleration and deceleration, automatic landing and programming control variations are available with this control. The new drive is an ideal replacement for existing slope hoist drives and allows use of existing wound

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asbestos
FLINTKOTE

CERTAIN-TEED PRODUCTS CORPORATION has released details of its new trenchless system for installing pipe, conduit and cable, and is offering a free brochure illustrating the methods of installation. The system will be offered by *Certain-teed Badger, Inc.*, a subsidiary of the corporation, and will be made available to contractors through authorized outlets.

The Badger System is used for installation of pipe for water, sewer, irrigation and land drainage and for channels of electrical conduits, cable, gas service, and processing and oil lines.

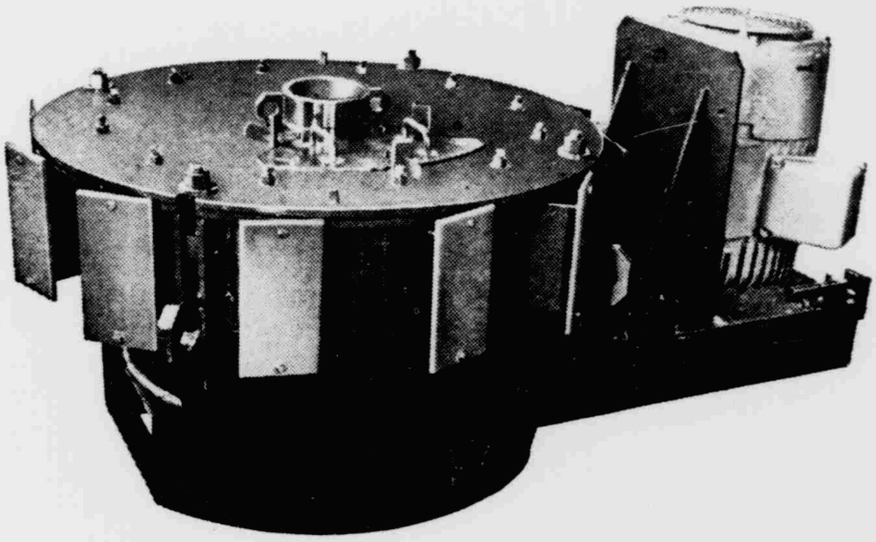
The Badger Minor trenchless pipelayer is capable of installing pipe in diameters through 15″, to a bottom depth of 5′6″. The pipelayer can be used in tandem with the Badger Tugmaster, with a hauling cable connecting the two units.

The automatic Badger Major equipment is capable of installing any size pipe, from the smallest diameters up to 18″, to a bottom depth of 9′. Grading, steering and blade position are controlled to very close tolerances by the electro-optical guidance system. Companion equipment, the track-mounted Site-hustler, is used as an anchoring and winching device.

The executive office of Certain-teed Badger, Inc., is located at 540 Pennsylvania Avenue, Fort Washington, Pa. 19034. The general sales office is in Suite 4-E, 2472 Bolsover Road, Houston, Texas 77005.

INTERFACES IN COMPOSITES, recently published by the *American Society for Testing and Materials* as Special Technical Publication 452, examines the role of interfaces in composite materials. It represents a broad coverage of the subject including fabrication, mechanical behavior, fracture and elevated temperature stability and considers both whisker and continuous filament reinforced organic and metallic materials. In addition to the primary component (the reinforcement) and the secondary component (the matrix) of composite materials, it has become apparent that a third entity — the interface between fiber and matrix — plays a profound role in composite behavior. Copies of the 196-page book, size 6″ x 9″, are available from ASTM at $16.50 each, plus handling and shipping charges.

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Simplicity D'CENTEGRATORS were successfully tested and installed by one of the world's largest producers of asbestos. Write or call to arrange for your own test at our plant. Or send for catalog DC-66 which contains complete information on this low-initial-cost, easy-to-maintain fibrizer.

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MARKET CONDITIONS

General Business.

The gradual slowdown in general business is continuing. Despite rumors of an early relaxation of certain fiscal and monetary restraints it seems doubtful that the Government will take any drastic steps in this direction until there are more definite signs of a slowing of inflationary trends—or unless a strong recessionary movement should make itself evident. So far, it has been demonstrated that regulation of fiscal and monetary policies can slow a too-rapid growth in the overall economy. Whether the same policies, continued long enough, can bring price inflation under control without leading to an unwanted and politically intolerable recession remains to be seen.

The automobile industry, one of the first to reflect a tightening of the public's purse strings, shows generally decreased sales as opposed to those of 1969 and housing continues in the doldrums due mostly to the tight money situation. The stock market shows few signs of recovering, in the near future, from its present low level and the issues of some of the conglomerates, in particular, reflect, in their market action, the doubts existing in the minds of investors as to the trend of industrial earnings in a period of little or no growth in the general economy.

The Vietnam problem continues to plague us and the talks in Paris still show no sign of progress toward a solution. Conditions in the Middle East have deteriorated recently and that entire area remains a powder keg despite efforts of the United Nations and certain individual nations to find some way to bring the countries involved into meaningful negotiations to resolve their disputes.

TUFCON, a roof surface material that has been tested to withstand temperatures to 175°F, has been introduced by *Tufcon Roof Insulation, Inc.*, Torrance, California. It is light in weight and offers fire- and sound-proofing qualities. Tufcon's prime ingredient is perlite, which is expanded and mixed with other materials, such as asbestos, for added strength and resistance to cracking.

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Building

From: McGraw-Hill Information Systems Company

JANUARY 1970 recorded a slackening of the recent strong pace of construction contracting. Declines in some key categories of nonresidential construction as well as in housing brought the Dodge Index (1957-59=100) down 6%, to 205. At $4,927,819,000, January's contract value was 5% below the comparable year-ago total.

Nonresidential building contracts were valued at $2,252,-117,000 5% above the January 1969 amount. The start of work on a $90 million aluminum reduction plant and a high volume of hospital construction offset the declines in commercial, educational and public building.

Residential building contract value dropped sharply to $1,475,136,000, 16% below the year-ago amount. Apartment contracts in the first month of 1970 were still within 3% of the level last January.

Nonbuilding construction contracts totaled $1,200,566,000, a 6% decline from the year-ago total. Most of the loss was concentrated in utilities construction. Highway construction and sewer/water projects picked up in 1970's opening month.

Elsewhere in this issue . . . .

you will find this month's "Happy Birthday" list unusually lengthy. One of our subscribers suggested we publish the birth dates one month in advance to give readers an opportunity to send birthday greetings to their friends in the Industry. We concur —and the changeover will begin with this issue. This edition will include the birth dates that fall between March 15 and April 30. The next issue will cover the dates from May 1 through June 14. Ensuing issues will list the birth dates for a thirty-day period, one month in advance.

We greatly appreciate our subscriber taking the time to offer this suggestion—and thus initiate what we believe will be an improvement in the service ASBESTOS offers its readers.

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Automobile Sales

DECEMBER 1969 motor vehicle factory sales from plants in the *United States* totaled 788,730 (passenger cars, 623,998; trucks and buses, 164,732). The total for December 1968 was 881,914. The total for the YEAR 1969 was 10,142, 820 compared with 10,718,236 for the previous year.

Motor vehicle factory sales from plants in *Canada* totaled 113,056 for DECEMBER 1969 compared to 104,039 in December 1968. The total for the YEAR 1969 was 1,342,772 against 1,153,013 in 1968.

AN INSTITUTE OF UNDERWATER MINING will be held April 28-29, 1970, at the *University of Wisconsin Extension*, 600 West Kilbourn Avenue, Milwaukee. The Institute will cover the various aspects of underwater mining including the location of probable mineral concentrations, methods and techniques of exploration, and systems equipment and methodology for mining both *under* the ocean floor as well as *on* the ocean floor. Future developments, political and legal problems involved and new concepts will be discussed. The event will close with a discussion of future mineral needs and probable sources for these minerals. The fee to attend the Institute is $70.00. Further details may be obtained by contacting Mr. John Gammell, Assistant Director, Engineering Center for Postgraduate and Professional Development at the University Extension.

JAPANPLAS—The third international *Plastics Fair*, held biennially, will take place in Tokyo, Japan, May 1-10, 1970. Further details are available from the "International Plastics Japan Trade Fair Association," 12-3 Chome Shiba Shinbashi, Minato-ku, Tokyo, Japan.

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THE DESIGN ENGINEERING SHOW & CONFERENCE will be held May 11-14, 1970, in Chicago, Illinois. The Show, an annual industrial exposition, will take place at the International Amphitheatre. The Conference will be conducted at the Palmer House. The Design Engineering Division of the American Society of Mechanical Engineers sponsors the annual conference.

MAICA MEETING—*The Middle Atlantic Insulation Contractors Association, Inc.,* will hold its Spring Meeting at Chalfonte-Haddon Hall, Atlantic City, New Jersey, May 14-16, 1970.

SWICA CONVENTION—The 1970 Spring Convention of the *Southwest Insulation Contractors Association* will be held May 20-23, 1970, at the Velda Rose Tower and Motel, Hot Springs, Arkansas.

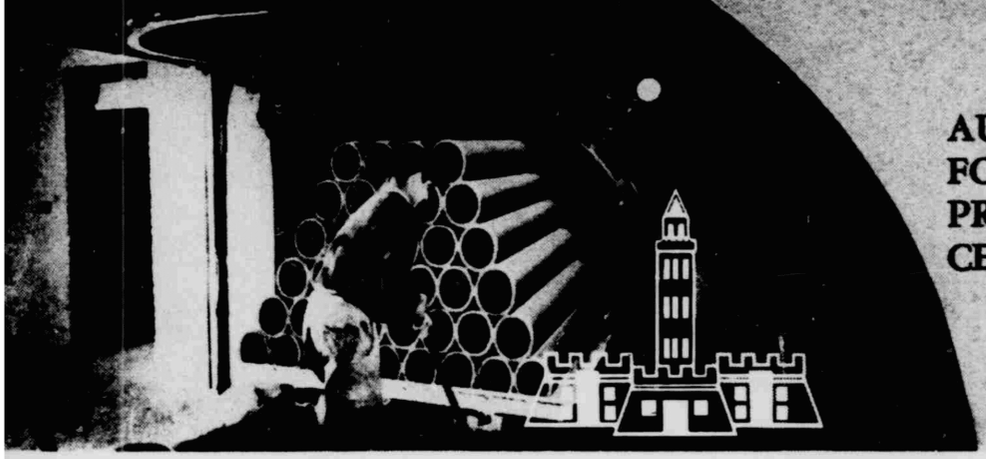
THE SEALANT MANUFACTURERS CONFERENCE will sponsor an *International Symposium on Joint Movement, Design and Materials,* to be held in the Dome, at Brighton, England, May 27-29, 1970. The main objective of the Symposium will be to enable those in attendance to review the factors involved in sealing joints that move in all types of structures, and to exchange information about the most successful methods available and the requirements which may result from future developments.

Full details of the program and arrangements for registration may be had by writing Business Conferences & Exhibitions Limited, Mercury House, Waterloo Road, London S.E. 1, England.

The Sealant Manufacturers Conference was founded in 1960 by the association of the major manufacturers of flexible sealing compounds in Great Britain, with the aim of establishing and maintaining high standards of quality in the industry.

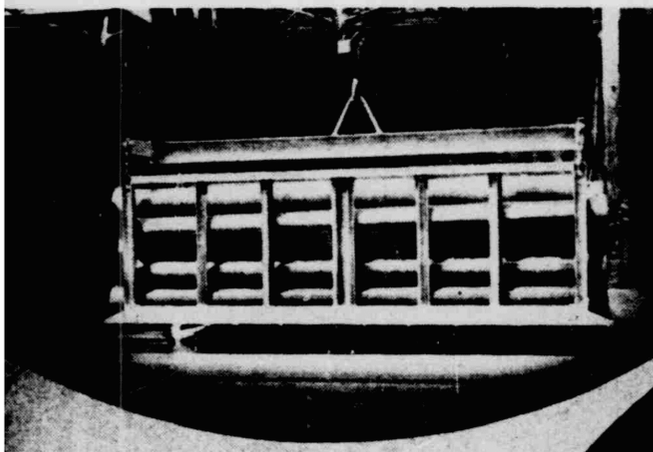
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

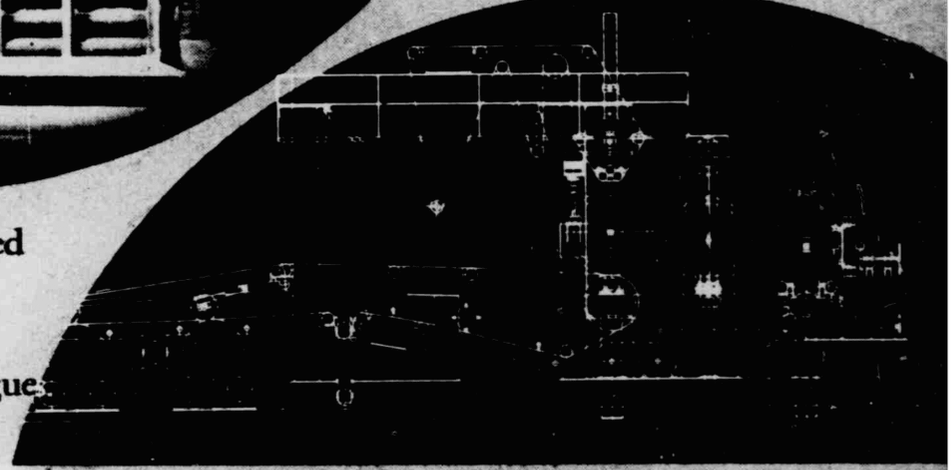


AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

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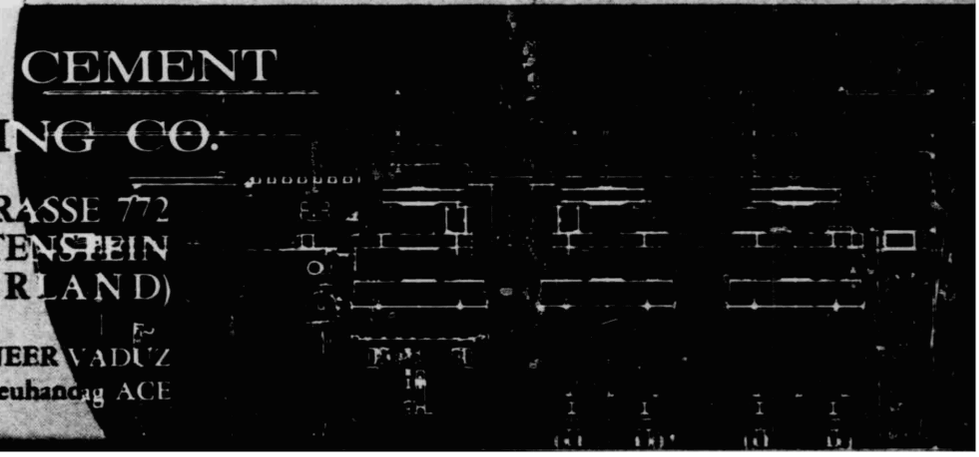


MODERN PLANTS FOR MAKING ASBESTOS CEMENT CORRUGATED AND FLAT SHEETS



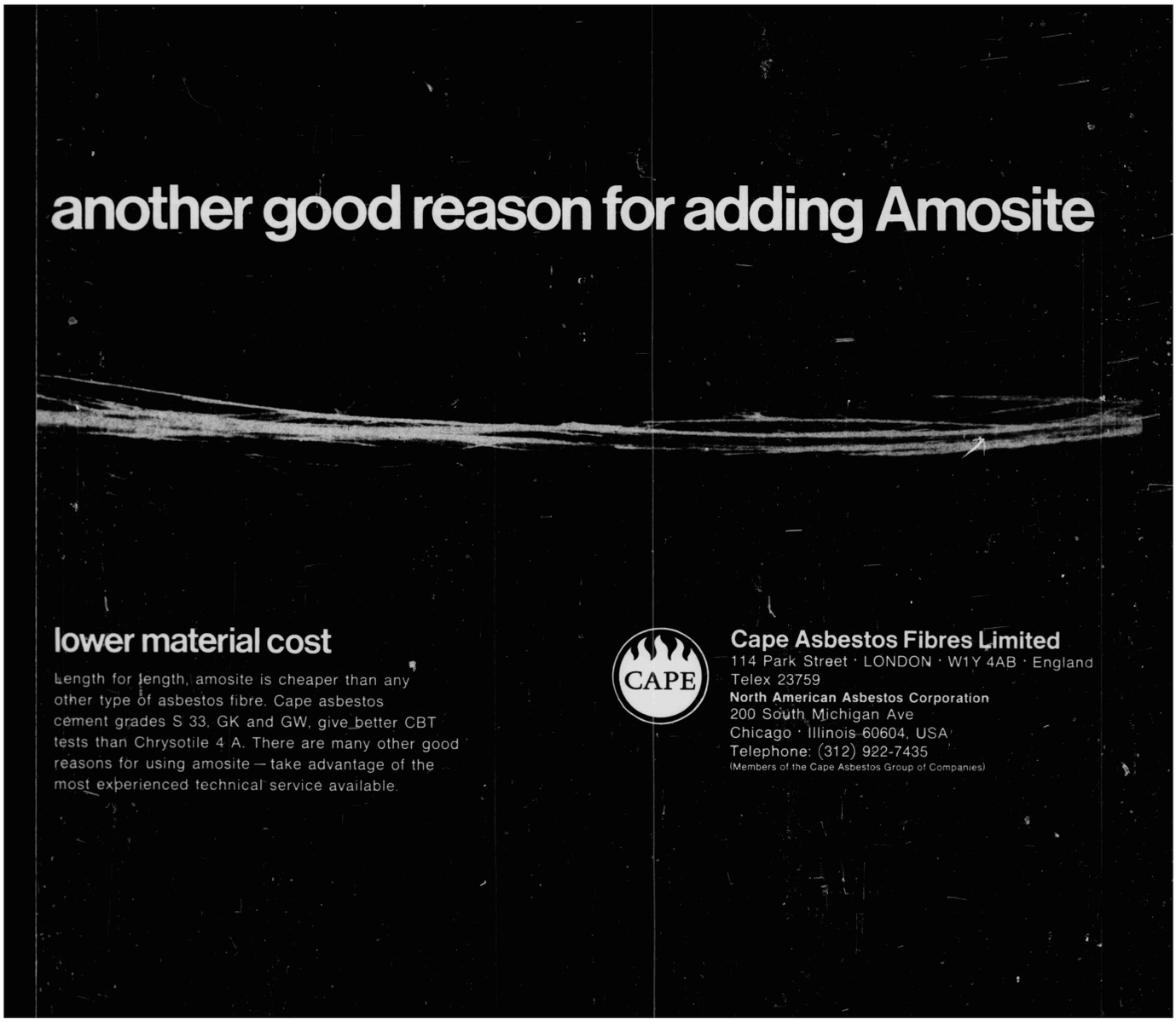
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PRODUCTION - IMPORTS - EXPORTS

Imports Into U.S.A.

(Figures from U.S. Bureau of the Census) Short Tons

Unmanufactured Asbestos:	SEP '69	OCT '69
Amosite, South Africa	1,089	1,355
Crocidolite (Blue), South Africa	641	1,265
Chrysotile, Crude, Finland	76	..
South Africa	350	40
United Kingdom	..	20
Chrysotile, Spinning Fibers, Canada	1,320	2,486
Chrysotile, Other, Canada	54,271	55,260
South Africa	30	..
United Kingdom	50	..
Other Crudes & Fibers, Canada	1,829	1,413
Finland	561	440
Mozambique	45	..
Portugal	..	30
South Africa	30	..
Yugoslavia	..	772
	60,292	63,081

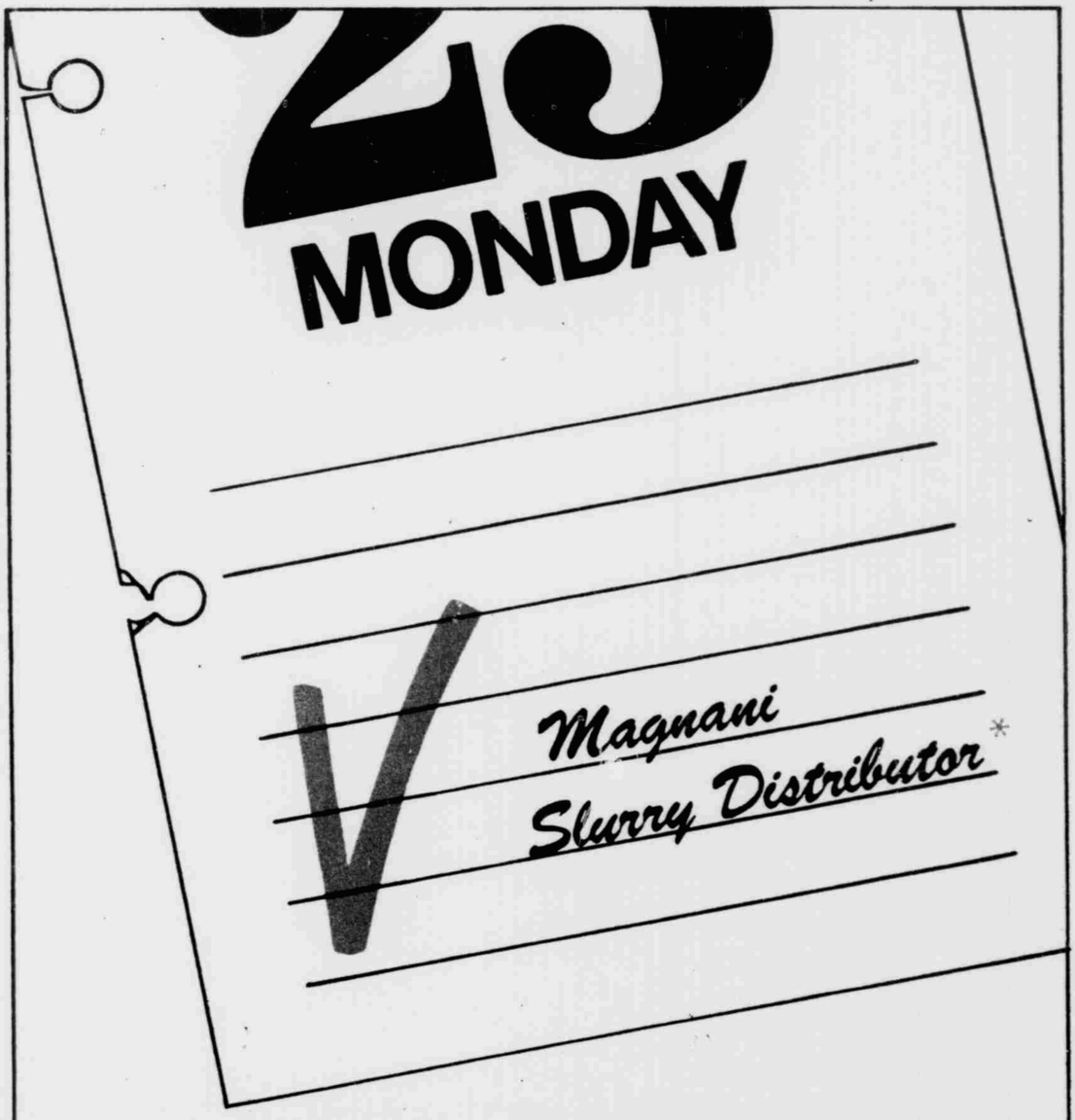
September unmanufactured asbestos imports were valued at $6,611,744.

October unmanufactured asbestos imports were valued at $7,095,718.

Manufactured Asbestos Goods:		SEPTEMBER 1969	
Asbestos Yarn, Slivers, etc.	Lb	531,364	$179,710
A-C Pipes, Tubes & Fittings	Lb	5,209,165	237,875
Asbestos-Cement Articles, Other	Lb	1,967,928	222,727
Asbestos Articles, Other		..	100,012
			$740,324

		OCTOBER 1969	
Asbestos Yarn, Slivers, etc.	Lb	289,792	$175,207
A-C Pipes, Tubes & Fittings	Lb	4,722,444	222,084
Asbestos-Cement Articles, Other	Lb	1,264,284	180,515
Asbestos Articles, Other		..	194,507
			$772,313

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Exports From U.S.A.

(Figures from U.S. Bureau of the Census) **NOVEMBER 1969**

Unmanufactured Asbestos:

Crude & Spinning Fibers	s. tons	127	$ 29,050
Non-Spinning Fibers	s. tons	720	116,861
Waste & Refuse	s. tons	1,834	216,358
		2,681	$ 362,269

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	1,333,826	$ 115,619
Other Asbestos-Cement Articles	Lb	506,620	67,581
Gaskets & Packing	Lb	512,726	590,123
Textiles & Yarns	Lb	350,262	170,331
Mfrs. Other than Friction Materials		..	370,029
Clutch Facings & Linings for Auto. Use	No	201,994	184,926
Clutch Facings & Linings, Other	No	21,724	27,351
Brake Linings for Automotive Use	Lb	399,361	383,431
Brake Linings, Other	Lb	168,544	133,915
			$2,043,306

Exports From Canada

(Published by Dominion Bureau of Statistics) **NOVEMBER 1969**

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	56	262	28
Western Europe	5	874	22,421	13,619
Middle East	..	..	2,081	308
Africa	..	..	720	320
Asia	7	355	16,649	24,505
Oceania	..	..	5,277	1,578
So. & Cen. America & Antilles	..	97	5,541	1,888
United States	1	1,559	13,991	33,789
	13	2,941	66,942	76,035

The total amount of unmanufactured asbestos exported in *November 1969* was 145,931 short tons, valued at $20,220,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 62,000
Asbestos-Cement Building Materials	165,000
Asbestos Basic Products, Other	93,000
	$320,000

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Asbestos in the Arctic.

When the SS *Manhattan* explored a year 'round tanker route to the Alaskan North Slope oil fields, asbestos was aboard.

Asbestos fibers added increased strength and fire-safety to J-M Metal-On® (aluminum jacketed calcium silicate pipe insulation) used to protect the ship's external deck piping.

The excellent insulating characteristics of this asbestos-bonded insulation kept liquids flowing in the minus 50°F Arctic temperatures.

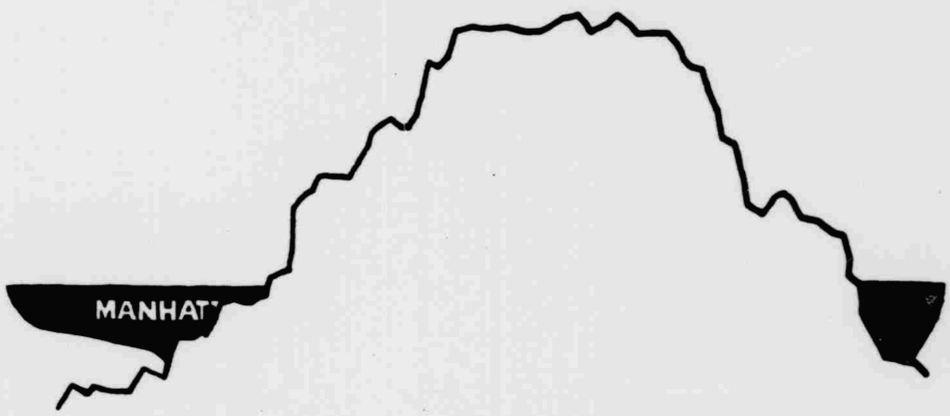
Chemically stable and resistant to water damage, asbestos will neither burn nor rot. And it easily withstands severe atmospheric changes.

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For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fiber Sales, Manville, N.J. 08835 U.S.A.

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INDUSTRY NEWS

HAPPY BIRTHDAY

Jan van der Putten, Chairman & Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, March 16.
Colon Brown, Chairman of the Board, President & Chief Executive Officer, National Gypsum Co., Buffalo, N.Y., March 17.
Walter J. Keimig, Secretary, Scandura, Inc., Charlotte, North Carolina, March 18.
J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Co. Ltd., Asbestos, P.Q., Canada, March 19.
Byron C. Radaker, Corporate Vice President of Marketing, Certain-teed Products Corporation, Fort Washington, Pa., March 19.
Philip P. Rost, Executive Vice President, Philadelphia Asbestos Corporation, Philadelphia, Pa., March 23.
O. A. Maggia, Assistant Treasurer, GAF Corporation, New York City, March 24.
George Barge, Executive Vice President & General Manager, Atlas Asbestos Co., Montreal, P.Q., Canada, March 27.
Edward McL. Tittmann, Chairman of the Board, American Smelting & Refining Co., New York City, March 27.
A. E. Alpine, Vice President of Manufacturing & Engineering, Pipe Div., Certain-teed Products Corp., Ft. Washington, Pa., March 29.
E. D. Ermenc, Director of Research, Philip Carey Corporation, Cincinnati, Ohio, March 29.
Ernest L. Ostic, Director, Technical Sales & Field Engineering, Building Products Div., GAF Corp., New York City, March 30.
Ross E. Sampson, Production Engineer, Asbestos Fibre Div., Johns-Manville Corporation, Asbestos, P.Q., Canada, March 31.
D. B. Tingle, Director, Vice President & General Manager, Armstrong Cork Co., Lancaster, Pa., March 31.
M. Phillips, Superintendent, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, B.C., Canada, April 1.
Grant V. Wilson, Jr., Secretary, Grant Wilson, Inc., Chicago, Illinois, April 1.
Francis H. May, Jr., Vice President for Finance, Johns-Manville Corporation, New York City, April 2.
W. P. Archer, Mine Manager, Coalinga Asbestos Company, Coalinga, California, April 4.
Joseph E. Kindregan, Operations Manager, Building & Flooring Materials, Johns-Manville Corp., New York City, April 4.
Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Co., St. Laurent, Montreal, P.Q., Canada, April 5.
A. C. Beguin, Manager of Operations, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, April 8.
Alfred A. Bowe, Sales Administrator, Carey-Canadian Mines, Ltd., Cincinnati, Ohio, April 8.
Ernest S. Sprinkmann, Jr., Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 8.

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Raymond J. Sachs, President, Porter-Hayden Co., Baltimore, Maryland, April 10.
W. E. Royds, General Superintendent, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Y.T., Canada, April 11.
M. De Rouin, Mill Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Y.T., Canada, April 13.
P. H. Riordon, President, Minorex Ltd. (wholly-owned subsidiary of Asbestos Corporation Ltd.), Vancouver, B.C., Canada, April 13.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.
Alfred G. Sinclair, President, Canadian Johns-Manville Co. Ltd. & General Manager, Canadian Products Division, Johns-Manville Corporation, Port Credit, Ont., Canada, April 15.
Philip A. Meyer, Consultant, Nicolet Industries, Inc., New York City, April 16.
G. A. Higham, Chairman, Cape Universal Building Products Ltd., Uxbridge, Middlesex, England, April 17.
Harold E. Gilbert, Director of Manufacturing, Philip Carey Corporation, Cincinnati, Ohio, April 20.
M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pa., April 21.
E. A. Boadway, Director, Carey-Canadian Mines Ltd., East Broughton Station, P.Q., Canada, April 23.
J. Stokes Clement, General Manager, Floor Products Division, GAF Corporation, New York City, April 23.
F. E. Thurston, Manager, Asbestos Hill Project, Asbestos Corporation Ltd., Montreal, P.Q., Canada, April 23.
Joseph G. Hall, General Manager of Building Products, Building Products Div., GAF Corporation, New York City, April 24.
G. A. Whitehead, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 25.
D. L. Tchida, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 26.
W. Lindsay Wylie, Vice President & General Manager, Fiber & Textile Division, Uniroyal, Inc., New York City, April 26.
J. Carroll Johnston, President, Atlas Asbestos Co., North Wales, Pa., April 28.
William C. Glor, Manager of Market Research, Philip Carey Corporation, Cincinnati, Ohio, April 29.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

New Officers for the year 1970 of the *Thetford Mines Branch of the Canadian Institute for Mining and Metallurgy* are: R. Sampson, Chairman; C. Bourgoin, Vice Chairman; T. W. Shaw, Secretary-Treasurer; and L. Lacasse, Membership Secretary.

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Msauli Asbes Limited, Johannesburg, South Africa, during the quarter ended September 30, 1969, removed 551,193 tons of overburden and crushed 113,079 tons of ore to produce 6,115 tons of asbestos fiber. The percentage of fiber recovered was 5.41%.

Expenditure on the project to erect a new mill amounted to R3,689,308 as of September 30. The new mill began production in October 1969.

Abitibi Asbestos Mining Co. Ltd., in a letter to its shareholders dated January 21, 1970, reported further progress on the bulk testing program taking place at the underground workings of its asbestos property located 52 miles north of Amos, Quebec, Canada.

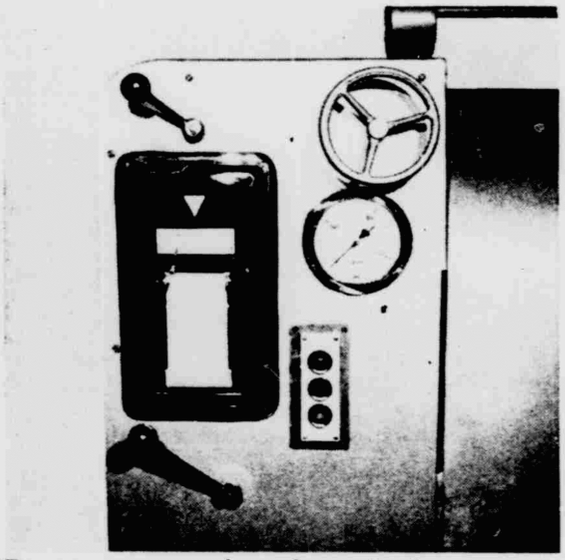
Data on results of testing bulk samples No. 1 and No. 2 were published in February 1970 ASBESTOS on page 46. Test work has now been completed on sample No. 3. Combined bulk samples No. 2 and No. 3 represent 400 continuous feet sampled with a north-south tunnel cross-cutting at the east end of the main fiber zone approximately 80 feet below the top of said zone. To date, 160 tons have been processed and quality tests carried out on the fiber show an excellent quality product in cement-grade fiber Groups 4, 5 and 6. Sample No. 4 (approximately 40 tons) was taken in the main fiber zone for 100 feet east of the north-south cross-cut to the extremity of the mineralized zone and is now being processed at the pilot plant of the Department of Natural Resources, Quebec City.

Parsons-Jurden Corporation, Kilborn Engineering and Mr. Gordon H. Gibbs have been retained to carry out economic feasibility studies. Their combined report is expected sometime this month.

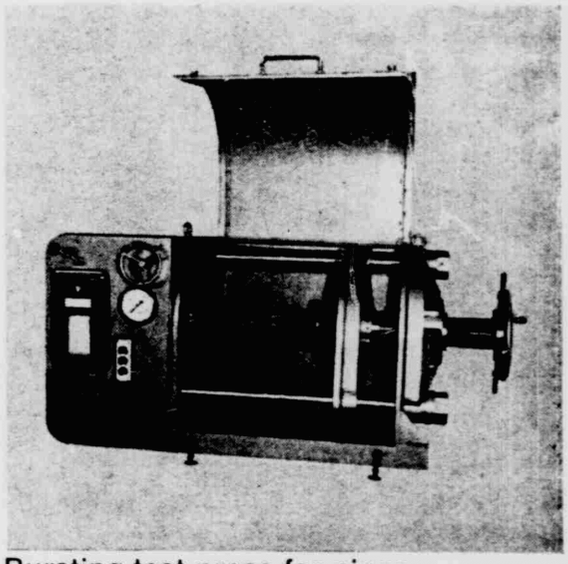
Hume Exhibit—A miniature bridge constructed on concrete box culverts, deck units and beams, under a roof of cantilever asbestos-cement roofing sheets (all produced at the factories of *Hume Industries (Malaya) Limited)* formed the main entrance to the Building Materials Exhibition recently held in Kuala Lumpur, Malaysia. The bridge was part of a display erected by Hume (Malaya), one of the 40 firms that participated in the exhibition organized by the Australian Government Trade Commission. The main purpose of the exhibition was to allow the local building industry to view a comprehensive range of building materials, hand tools and hardware products of Australian origin, designed to suit local requirements and to meet the prevailing price levels in this highly competitive market. Apart from the bridge, the Hume display included the company's range of asbestos-cement pressure pipes, Aquatite and cast iron joints and Hudex asbestos-cement roofing sheets and ridges. An item that created considerable interest was a rock sample con-

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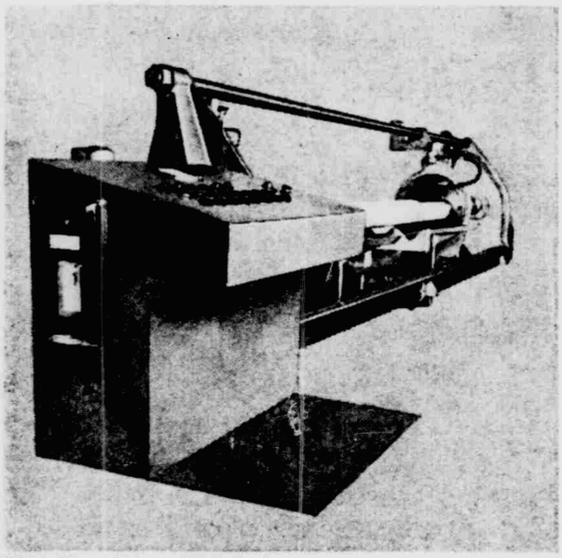
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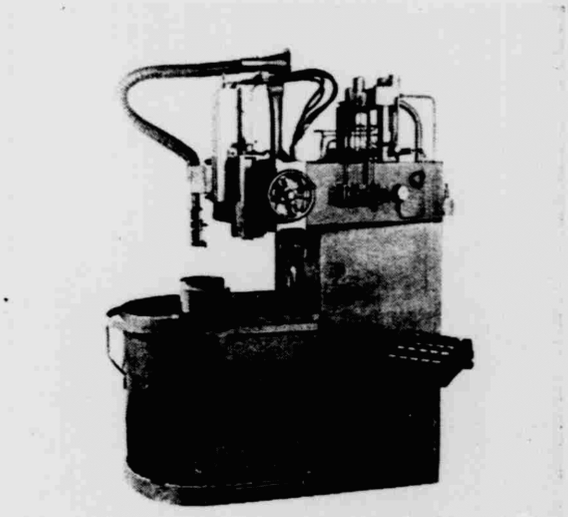
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1969/70 Insulation Handbook is now available, at 15 shillings per copy, from *Lomax Erskine Publications Limited,* 8 Buckingham Street, London, W.C. 2, England. The latest edition contains over 300 pages and marks an important step which the whole of the insulation industry will be facing in the next two years — the change-over to metric (S.I.) units. Specific qualities of materials such as densities, thermal conductivities and compressive strengths have been listed in S.I. terms. In addition, metric equivalents are listed beside the imperial units. However, sizes of materials have been given in imperial units, except for those already produced in metric module sizes. The main contents of the Handbook include: tables giving the dimensions and insulation values of all important thermal, acoustic and vibration insulating materials on the market in the United Kingdom, fixing systems and adhesives, legal requirements that pertain to thermal and acoustic insulation, relevant associations and institutions, trade and proprietary names and an alphabetical list containing the names and addresses of about 800 insulation manufacturers and contractors. New in the current edition are tables to convert U and k values to S.I. units, and tables of materials for cold storage insulation and protective materials for pipe insulation.

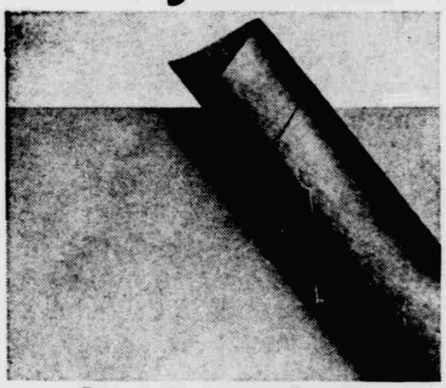
PREPRINTS—1968 U.S. BUREAU OF MINES MINERALS YEARBOOK

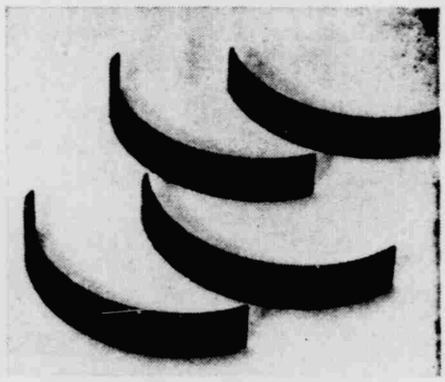
Statistical Summary—Asbestos production in the United States in 1968 amounted to 120,690 short tons, valued at $10,405,000. The production figure for 1967 was 123,189 tons, valued at $11,102,000. U.S. exports of unmanufactured asbestos totaled 41,217 short tons in 1968, valued at $4,677,000 (plus re-exports of 19 short tons, valued at $2,000). These figures compare to 1967 as follows—47,356 tons of unmanufactured asbestos exported, valued at $5,951,000 (plus re-exports of 362 tons, valued at $74,000). U.S. imports of asbestos for consumption totaled 737,909 tons, valued at $72,930,000, in 1968, against 645,112 tons, valued at $65,743,000, in 1967.

Technologic Trends in the Mineral Industries (Metals and Nonmetals Except Fuels)—Material handled at asbestos mines in the United States in 1968 amounted to 4,504,000 short tons (2,245,000 tons of crude ore and 2,259,000 tons of waste). This total includes 4,075,000 tons from the surface mining process and 429,000 tons from underground operations. The average value for all 8 asbestos mines operating in 4 States was $4.60 per ton. In surface mining operations, 42% was done by strip and single bench method and 58% by multiple bench method. The ratio of units of ore treated or sold to units of marketable product was 18.7:1. The ratio of units of material handled to units of marketable product was 37.2:1. 93% of the material handled was preceded by drilling and blasting. A total of 14,123 feet of asbestos-bearing properties were explored or developed (520 feet by raising, 2,218 feet by drifting and cross-cutting, and 11,385 feet by rotary drilling).

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Sydney

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Bremen, W. Germany

BELGIUM
Keyser & Mackay
Brussels

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Textile
Improvements Ltd.
Guildford, England

ENGLAND
Textile
Improvements Ltd.
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Dieppedalle &
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NOTES FROM 1969 ANNUAL REPORTS

TURNER & NEWALL LIMITED

Turner & Newall Limited was formed in 1920 and is now in its Jubilee Year. The firm mines asbestos fiber in Canada, Swaziland and the Republic of South Africa and manufactures a variety of products including a wide range of building, textile and insulation products, friction materials and gaskets.

For the year ended September 30, 1969, consolidated trading profit increased by £451,000 but higher charges for financing caused the increase in the profit before taxation and before exceptional items to be only £198,000. Consolidated profit after taxation amounted to £7,362,000. The comparable figure for the previous 12-month period was £7,045,000.

Turners Asbestos Cement Co. Ltd.'s sales in export markets were nearly doubled and profit margins improved. The volume of building materials sold was marginally lower but fire protection and thermal insulation materials again achieved record levels and capacity for manufacture of these products is being further increased. Sales of pipe and electrical insulation materials improved. Output from the new paper machine became available during the year and market prospects are good for asbestos felts and papers.

Turner Brothers Asbestos Co. Ltd. reported export sales were once again at record levels. A feature of the year was the introduction of a range of dust-suppressed asbestos textiles which is expected to assist substantially in meeting the more stringent requirements of the new Asbestos Regulations. Sales of asbestos textiles and jointings increased and a heavy demand from the automotive industry continued. Turner Bros. became responsible for the management of Deeglas Fibres Ltd., which was acquired by T&N in March, 1969.

Ferodo Ltd. won the "Queen's Award to Industry" for its development of greatly improved disc brake pad materials. License arrangements have been concluded with Hitachi Chemical Company for manufacture, in Japan, of certain friction products. Sales in home and export markets increased by nearly 10%.

J. W. Roberts Ltd. managed, in spite of the depression in the building industry, to secure a small increase in sales, but profit was lower. Good use was made of the improved trading conditions in the engineering industry to achieve higher sales of Ferobestos and Feroglas reinforced plastics.

Turners Asbestos Cement (Northern Ireland) Ltd. had a satisfactory overall net profit and further progress can be expected in succeeding years.

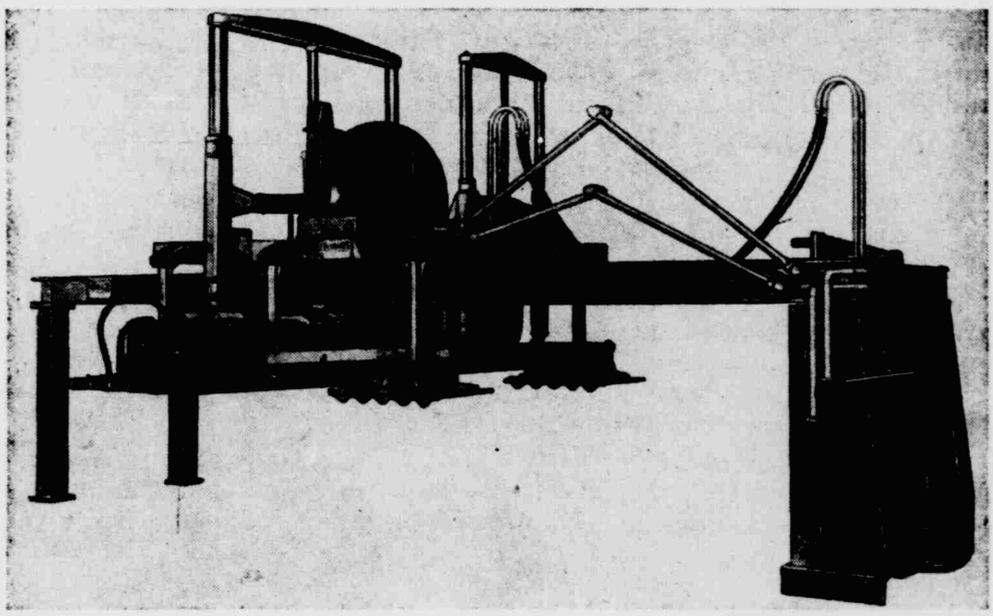
Atlas Asbestos Co., Montreal, Canada, experienced a slight reduction in sales due to a drop in industrial construction and the deferment, for financial reasons, of water and sewerage projects. Intensified competition and inflationary pressures on costs inevitably caused profit margins to contract and the company recorded a loss for the year.

Asbestos Cement Ltd., Delhi, India—Despite an improvement in the general economic situation, demand for building materials remained

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sluggish and competition was intense. Under present circumstances the company cannot purchase asbestos fiber from T&N mines in Africa and failure of a supplier outside T&N to maintain an agreed delivery schedule forced the closure of three plants near the end of the financial year.

Hindustan Ferodo Ltd., Ghatkopar, Bombay, India, reported an increase in sales of more than 20%, resulting in a very satisfactory growth in profits. The plant which had been under-utilized during the past recession was brought back into full operation.

Turners Asbestos Products (Pty) Ltd., Jacobs, Durban, South Africa, recorded substantially higher profits than in the previous year. The marked upsurge in the South African economy made it possible for this firm to increase sales of asbestos-cement building products and pipes by more than 20%.

Ferodo (Pty) Ltd., Jacobs, has established itself on a firm footing. Increasing acceptance of its products (brake linings, disc brake pads, clutch facings and jointings) lifted sales by more than 50% over 1968.

Turners Asbestos Products Ltd., Chilanga, Lusaka, Zambia, had sales and profits almost identical with those in 1968. Demand for building materials has fallen from its previous high level and the situation continued whereby asbestos fiber, previously supplied from Rhodesia, must be obtained from other, more costly sources.

Ferodo Italiana SpA, Mondovi, Italy, had its most successful year since commencing operations. Sales were 20% higher than in 1968.

Bell Asbestos Mines Ltd., Thetford Mines, P.Q., Canada, continued in its development of the new shaft at the Bell Mine, but progress was slower than planned due to unexpected, severe water problems. These problems plus additional costs in the development program and the continued inflation in Canada caused reduced earnings, but the final result was satisfactory.

New Amianthus Mines (Pty) Ltd., Johannesburg, South Africa—Mining operations at the Havelock Mine in Swaziland continued at optimum level during the year. Profits were maintained despite cost pressures.

At the risk of being considered immodest . . .

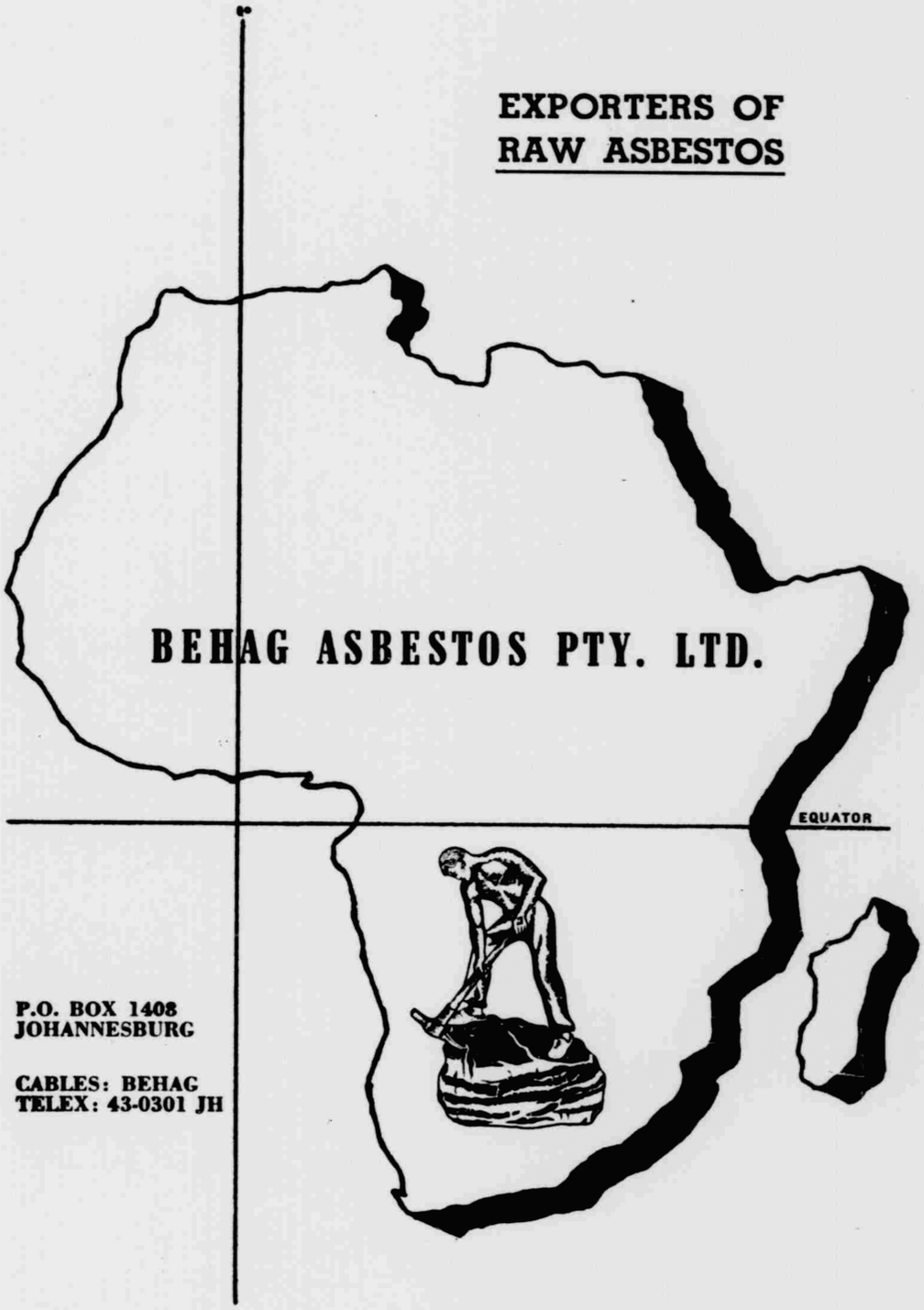
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PERSONNEL NEWS

CERTAIN-TEED PRODUCTS CORPORATION

Malcolm Meyer was elected Chairman of Certain-teed, succeeding the late Rawson G. Lizars. Mr. Meyer will continue as President and Chief Executive Officer, positions he has held since 1953 and 1955, respectively.

JOHNS-MANVILLE CORPORATION
ASBESTOS FIBRE DIVISION

John G. Cole has been appointed Mine Manager and *C. A. M. Hegenbarth*, Mill Superintendent, of Advocate Mines Limited, Baie Verte, Newfoundland. Mr. Cole was formerly the Plant Engineer at Advocate and joined the company in 1963 as Chief Industrial Engineer. Mr. Hegenbarth joined J-M in 1956 as Mechanical Engineer at the Jeffrey Mine and his most recent position was Assistant Mill Superintendent at Jeffrey.

The following appointments were announced within Division Headquarters. *J. M. Fletcher,* former Advocate Mine Manager, replaced S. K. Brigham as Mine Project Manager. *D. L. Monroe*, formerly Manager of Sales Service, is now Mine Project Manager. *J. P. Power* is the new Assistant Production Engineer. He had been Mill Superintendent at Advocate.

NATIONAL GYPSUM COMPANY

John P. Hayes was elected Corporate Group Vice President and appointed to membership on the Corporate Board of Directors. In addition to his new responsibilities, Mr. Hayes will continue as President of the Building Products Division.

The following personnel changes in the Building Products Division were announced by Mr. Hayes. *James R. Voisinet* was elected Vice President and Assistant to the President. He joined the company in 1962 as a development engineer. A new, specialized sales group of industrial housing sales engineers has been established in the Division. Promoted to the newly-created positions and reporting to the Manager of Special Sales, James J. Myers, are *Kenneth L. Haag, R. Keith Gilchrist, E. Kent Kimbell* and *Hurley D. King.*

NICOLET INDUSTRIES, INC.

Kenneth L. Stephens was named Southwestern District Sales Manager, Monolithic-Millboard Products Division. He will be responsible for the sale and distribution of Nicolet Monolithic-Millboard Products including KolorMate®, a color-coordinated asbestos product that exhibits high corrosion and chemical resistance.

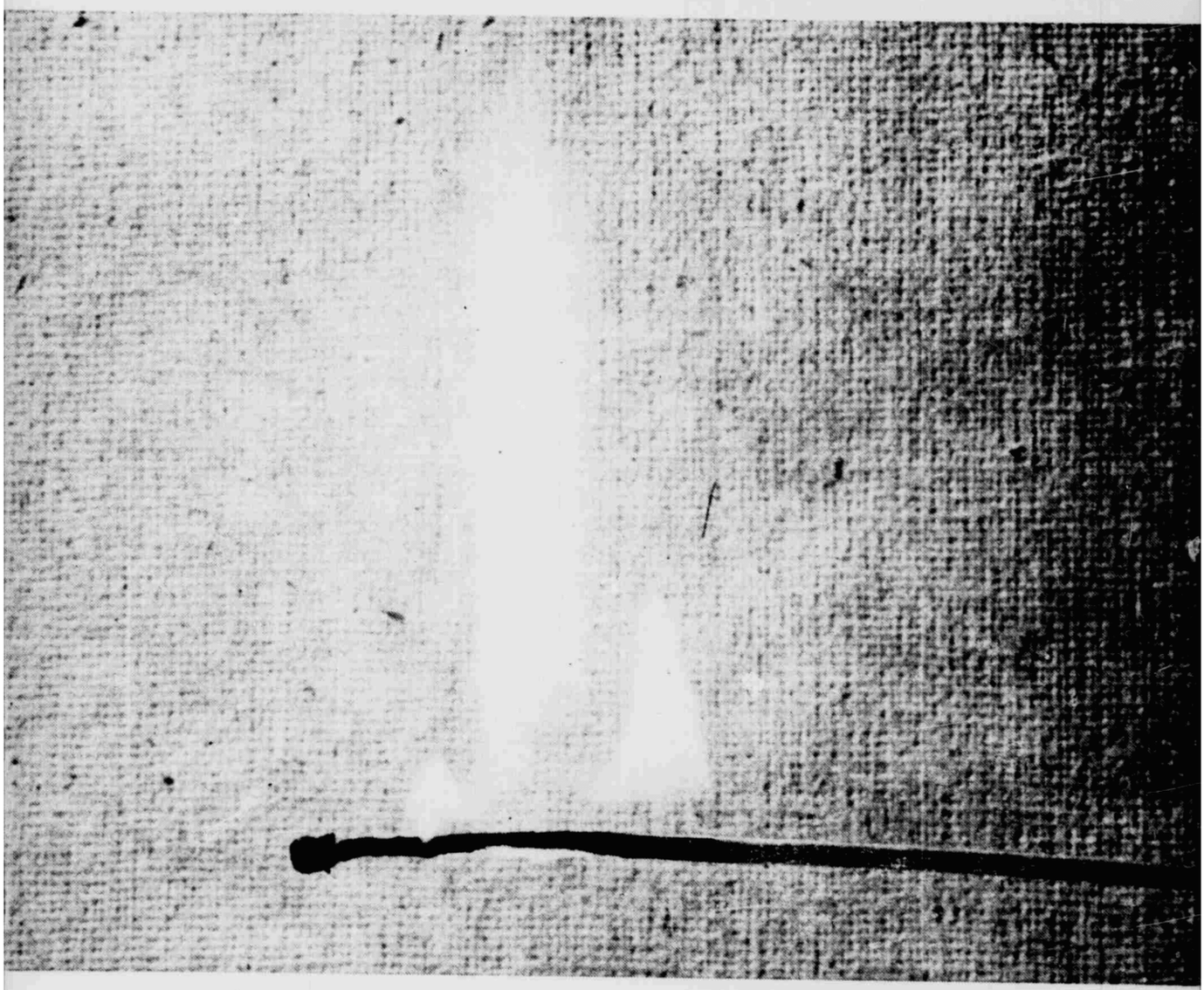
H. K. PORTER COMPANY, INC.

Kenneth W. Sulser was appointed Group General Manager-Asbestos for the Thermoid Division and will be responsible for all functions of the Group including manufacturing operations, research and development, sales and marketing. Mr. Sulser had been Production Manager-Textile Fibers with Uniroyal, Inc.

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Remittance should be in coin, currency, or check and the number of the patent, name of inventor and date of issue should be shown.

U.S. Patents issued from November 18, 1969, through February 10, 1970.

3,481,132—Textured Filament Yarns, E. Bobkowicz & A. J. Bobkowicz, December 2.

3,490,585—Process and Apparatus for Classifying Fibers, R. W. Gooding & N. J. Parrat (assigned to National Research Development Corporation, London, England), January 20.

3,492,262—Friction Elements, A. M. Griffon (assigned to Abex Corporation, New York City), January 27.

3,493,108—Concentration of Asbestos Ore, E. Martinez (assigned to American Smelting & Refining Company, New York City), February 3.

3,494,884—Friction Lining Compositions, P. Kraft (assigned to Jurid-Werke G.m.b.H., Hamburg, Germany), February 10.

The Canadian Government Specifications Board, Ottawa, Canada, effective January 1970, has revised the following Standards that concern asbestos-based materials. The Standards (available from CGSB at 25¢ per copy, unless otherwise noted) are: 34-GP-4b, Asbestos-Cement Siding, Shingles and Clapboards; 34-GP-5c, Corrugated Asbestos-Cement Sheets; 34-GP-10b, Asbestos-Cement Industrial Vent Pipe; 34-GP-11b, Asbestos-Cement Flue Pipe (15¢); 34-GP-16b, Flat, Fully-Compressed Asbestos-Cement Sheets; 34-GP-17c, Flat, Semi-Compressed Asbestos-Cement Sheets; 34-GP-18a, Low Density Asbestos Sheets; 34-GP-21a, Asbestos-Cement and Fiberboard Sandwich Sheets (15¢); and 34-GP-22a, Asbestos-Cement Drain Pipe.

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ASBESTOS PRICES

ARIZONA

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of August 1, 1968) — U.S. Dollars

No. 1 Crude	$1,410.00 — $1,650.00
No. 2 Crude	700.00 — 950.00
AAA	.. 800.00
Group No. 3 (Non-Ferrous Filtering-Plastic)	425.00 — 700.00
Group No. 4 (Non-Ferrous Filtering-Plastic)	400.00 — 500.00
Group No. 5 (Non-Ferrous Filtering-Plastic)	385.00 — 425.00
Group No. 6 (Non-Ferrous Plastic)	.. 250.00
Group No. 7 (White Shorts)	65.00 — 90.00

CANADA

Per Ton of 2,000 lbs., f.o.b. Mine

(As of January 1, 1970) — Canadian Currency

Crude No. 1	$ .. $1,525.00
Crude No. 2	.. 825.00
No. 3 (Spinning Fiber)	397.00 — 650.00
No. 4 (Shingle Fiber)	218.00 — 369.00
No. 5 (Paper Fiber)	157.00 — 184.00
No. 6 (Waste)	.. 114.00
No. 7 (Refuse, Shorts)	48.00 — 95.00

CASSIAR

Per Ton of 2,000 lbs., f.o.b. North Vancouver, B.C.

(As of January 1, 1969) — Canadian Currency

AAA Grade (Non-Ferrous Spinning Fiber)	$ 845.00
AA Grade (Non-Ferrous Spinning Fiber)	673.00
A Grade (Non-Ferrous Spinning Fiber—Canadian Group 3)	508.00
AC Grade (Asbestos-Cement—Canadian Group 4)	363.00
AK Grade (Shingle Fiber—Canadian Group 4)	249.00
CP Grade (Shingle Fiber—Canadian Group 4)	234.00
AS Grade (Shingle Fiber—Canadian Group 4)	217.00
CT Grade (Shingle Fiber—Canadian Group 4)	211.00
AX Grade (Shingle Fiber—Canadian Group 5)	193.00
CY Grade (Shingle Fiber—Canadian Group 5)	136.00
AY Grade (Shingle Fiber—Canadian Group 5)	136.00

VERMONT

Per Ton of 2,000 lbs., f.o.b. Morrisville, Vermont

(As of January 1, 1970) — U. S. Dollars

Group No. 3 (Spinning & Filtering Fiber)	$ 366.50 — $ 393.50
Group No. 4 (Shingle Fiber)	201.00 — 341.00
Group No. 5 (Paper Fiber)	145.00 — 170.00
Group No. 6 (Waste)	.. 105.00
Group No. 7 (Shorts, Floats)	48.00 — 87.50
Hooker No. 1 (Packaged in 50-lb. Burlap Bags)	.. 402.00
Hooker No. 2 (Packaged in 100-lb. Burlap Bags)	201.00

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ASBESTOS STOCK QUOTATIONS

Close—February 20, 1970

Abitibi Asbestos	**$6.25
Advocate	*$2.35
Asarco	33½
Armstrong Cork	34
Armst Cork (pfd 3.75)	54½
Asbestos Corporation	*$26.25
Bendix	30¼
Bendix (pfd 3)	48
Carlisle	13⅜
Cassiar	*$17.50
Certain-teed	23¼
C-teed (pfd .90)	22⅞
Conwest	*$14.87
Flintkote	22½
F-kote (pfd-A 4.50)	78⅜
F-kote (pfd-B 2.25)	31½
GAF	13¼
GAF (pfd 1.20)	20⅜
Garlock	16½
Glen-Alden	7¾
G-Alden (pfd 3.15)	57
G-Alden (pfd 3)	55
G-Alden (pfd 2.25)	32¾
Grace	22⅜
Gulf & Western	17¾
G&W (pfd 1.75)	60
G&W (pfd 3.50)	72½
G&W (pfd 3.87)	46½
G&W (pfd 5.75)	62½
Johns-Manville	31⅛
Maremont	9¾
National Gypsum	22¾
Natl Gypsum (pfd 4.50)	63½
Patino	*$47.37
Porter (pfd 5.50)	67
Raybestos-Manhattan	47¼
Unarco	10
Union Carbide	35⅞
Uniroyal	17⅞
Uniroyal (pfd 8)	102
United Asbestos	4-3/16

*Canadian currency

**Canadian currency: Close—February 23

(Source: The Wall Street Journal)

U.S. Documents—The following reports are available at $3.00 per paper copy and 65c per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Virginia 22151.

AD 694 525—Exploratory Development and Analytical Support of Experimental Materials, by J. J. McGovern & W. G. Fateley, Mellon Institute, for the Air Force; results of molecular structure investigations and analytical support studies.

AERE R 6090—The Radiation Polymerization of Impregnated Fibrous Materials, by P. R. Hills et al., Wantage Research Laboratory, Wantage, Berkshire, England.

BSS 25—Structural Performance of a Building System, by E. O. Pfrang & F. Y. Yokel, National Bureau of Standards; summarizes the results of a comprehensive series of load tests on a full-scale portion of a proposed building system, ($1.25).

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Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

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Remember When?

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New Advertisers: African Base Metals Export Co. Ltd.; Paul Hammerich, Inspector; The Cape Asbestos Co. Ltd.; The Quebec Asbestos Corporation; Consolidated Asbestos, Ltd.

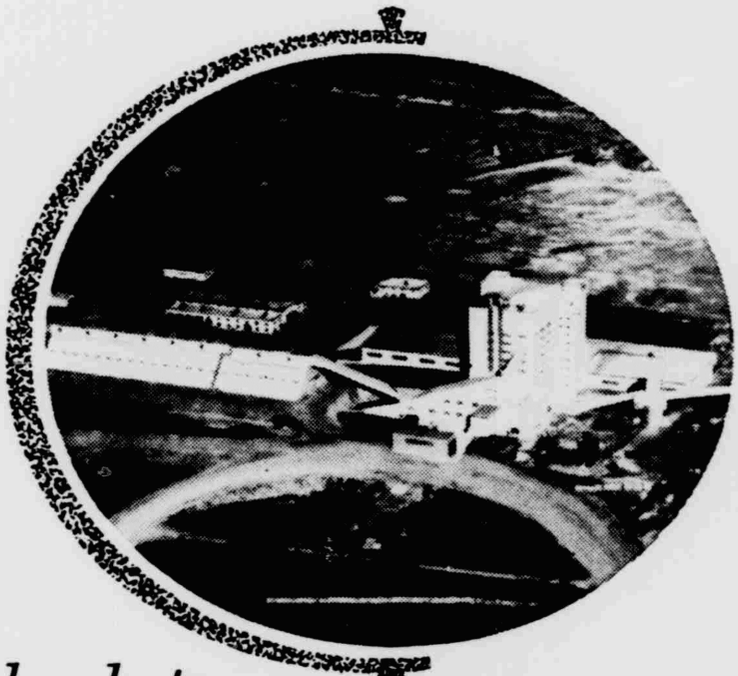
The Cape Asbestos Co. Ltd. announced its association with Asbestos Limited and the building of a factory at Bound Brook, New Jersey, for the production of Blue asbestos spinning fiber from Blue crude supplied by Cape. Because Blue crudes require special processing to yield fibers suitable for spinning, many U.S. manufacturers run into difficulties in attempts to use Blue crude imported from South Africa. Cape decided to institute a policy of selling no crudes in America, limiting its sales to carefully fiberized material ready for blending and carding.

The manufacture of pipe composed of 85% Portland cement and 15% asbestos fiber was announced as having been started by Eternit Pietro Artificiali of Genoa, Italy. Four machines, with a total capacity of 12,000 feet of pipe per twenty-four hours, were reported in operation. The pipe was said to withstand a pressure of about 450 psi and to be acid-proof and non-corroding. The company was said to be seeking an American firm to manufacture such pipe in this country, under license.

Mr. George D. Crabbs, President of the Philip Carey Company, was appointed as Director of the Federal Reserve Bank of Cleveland, Cincinnati branch.

Discovery of an extensive asbestos deposit in Apache County, Arizona, was reported. Samples received by the Bureau of Mines were of typical Arizona type—strong, flexible and silky, with lengths of one to one and one-quarter inches. The deposit is on an Indian reservation and development would have to await a change in existing laws prohibiting asbestos developments on unallotted Indian lands.

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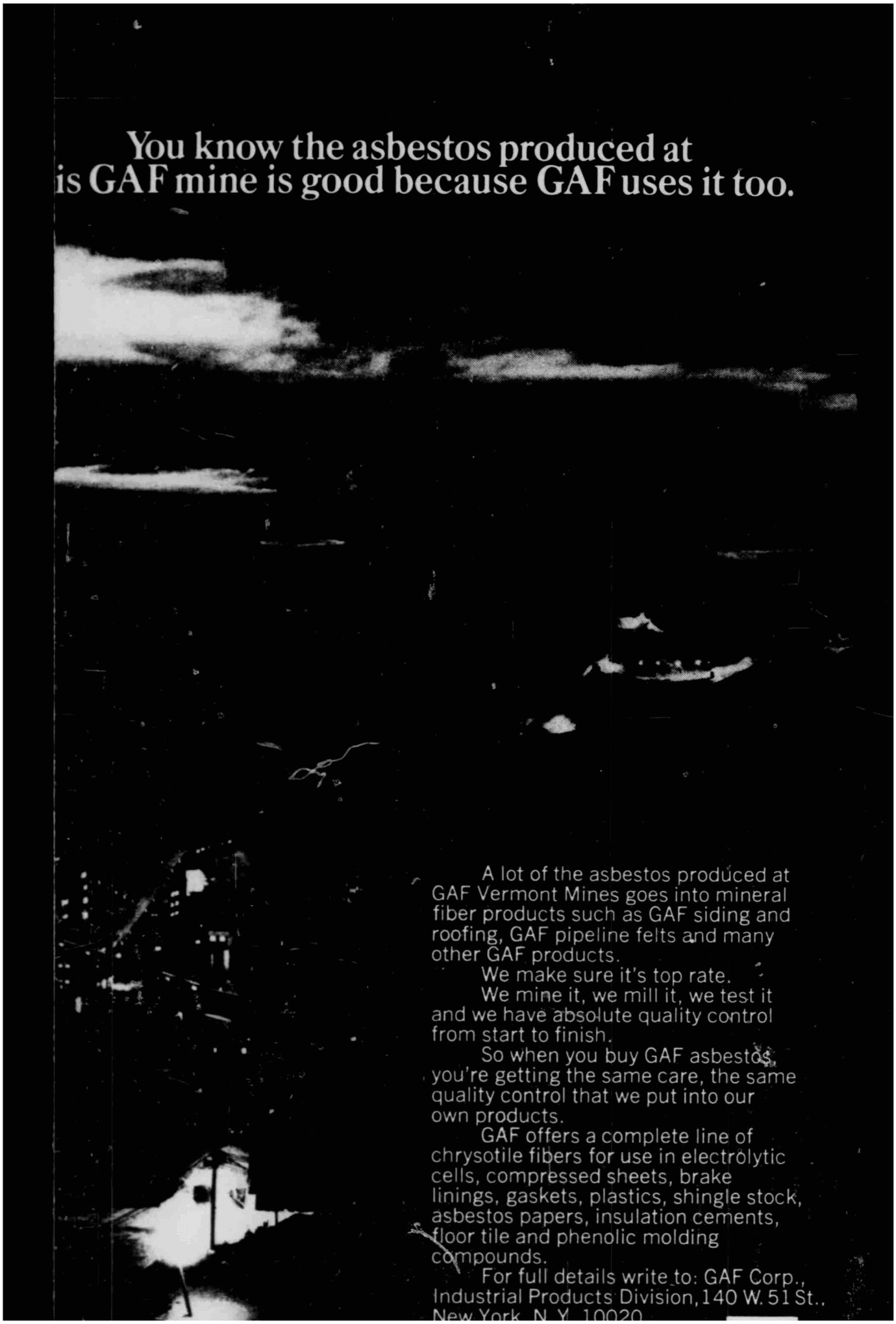
Carey-Canadian Mines, Ltd., one of the world's largest producers of asbestos fibre, can serve your needs around the world. Overseas sales agents are listed below. Additional information may be obtained by writing to Carey-Canadian Mines, Ltd., P. O. Box 15070, Lockland, Cincinnati, Ohio 45215.

Mt. Waverly, Victoria, Australia	K. V. Robinson & Ass. Pty., Ltd.
Wien, Austria	Robert Weisz
Taipei, Taiwan, China	Ziang Tai Mercantile Company
Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	Compagnie Commerciale de Minerais Et Matieres Premieres
Duisburg, Germany	Deutsche Asbest-Gesellschaft G.M.B.H.
Lubeck, Germany	Possehl Erzgesellschaft
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J .Deutsch
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	IHL-Hung Trading Co.
Mexico City, Mexico	Productos Quimicos Mardupol, S.A.
Haarlem, Netherlands	Chemische Productenhandel J. J. Van De Vrande
Auckland, C.I., New Zealand	Neill, Cropper & Company Ltd.
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	Intertrade
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.
Valencia, Spain	Guzman, S.A.
Caracas, Venezuela	Ing. N. Sekler Y Associados S.R.L.

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