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ASBESTOS HILL PROJECT

Following a meeting of the Board of Directors of *Asbestos Corporation Limited,* the President and Chief Executive Officer, W. W. Oughtred, announced the decision had been made to proceed with the company's Asbestos Hill Project in northern Ungava.

Located in Putuniq, New Quebec, 1200 miles due north of Montreal, Canada, the Asbestos Hill orebody has been under development by Asbestos Corporation since 1962. During this period, the company has invested $26,000,000 in the project, including the cost of acquisition. In 1967, however, escalation of capital costs and the uncertainty caused by the recommendations of the Carter Commission concerning mine taxation forced the company to postpone work on the project pending re-examination of its economic feasibility. As a result of the investigation, it was deemed impractical to plan a year-round operation of this type in a remote region subject to severe arctic conditions and with limited shipping season.

Under the new concept, a crushing, drying and milling plant designed to operate seven months a year can be erected at considerably less capital cost than a plant designed for year-round operations. Asbestos Corporation will spend a further $27,000,000 in Quebec on the construction of the plant, dock, roads and mining equipment needed for the project. This brings the total cost in Quebec to $53,000,000. Construction will commence immediately and is scheduled for completion by April, 1972. When in operation at a projected rate of 1.2 million tons of ore per year, the plant will employ approximately 180 men. Despite the severe climatic conditions under which the mine will operate, the profitability of the operation is assured by the high ore value (in excess of $20.00 per ton). Financing arrangements have been assured for this major Canadian investment in Quebec.

The unfinished fiber produced by the plant will be shipped by bulk carrier to a plant to be located in Nordenham, West Germany, for grading, packaging and distribution. Work on the plant in West Germany will begin next year and is scheduled for completion by August, 1972. It will produce 100,000 tons of finished asbestos fiber annually, chiefly Group 4 (asbestos-cement grade) for year-round distribution to the

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European market.

Although the White Paper on Tax Reform has not alleviated the uncertainties caused by the Carter report, it has indicated there will be a five-year breathing spell. It therefore seems advisable to proceed with the development of the Asbestos Hill property. Should the recommendations contained in the White Paper be enacted in their present form, new Canadian projects, such as Asbestos Hill, would probably not be feasible after the period of respite.

UNIROYAL DEVELOPMENT COMPANY has been established by Uniroyal, Inc., to coordinate technical and market research activities, to supervise the operation of present joint ventures and to explore new profit opportunities within the framework of the company's long-term growth plan. The new company will operate as a division of Uniroyal and will have responsibility for the management of Uniroyal's plantations in Liberia, Sumatra and Malaysia.

Dr. Earle S. Ebers has been appointed President of Uniroyal Development Company. He was formerly Group Vice President in charge of polymer, fiber and chemical operations and is Chairman of the Executive Committee of Petroquimica S.A. (PASA) of Argentina, and President and a Director of Monochem, Inc., a company jointly owned by Uniroyal and The Borden Company.

UNI-REP, INC., Malvern, Pennsylvania, and Riderwood, Maryland, will handle sales of equipment in southern New Jersey, eastern Pennsylvania, Delaware, Virginia, Maryland and the District of Columbia for the Industrial Division of *The Bauer Bros. Co.* Through Uni-Rep, Bauer's Industrial Division will supply equipment and systems for classification, dewatering, separation, liquid expression and size reduction. Messrs. Roscoe Heard and Patrick Dolan will work from the Malvern office and Mr. Eugene Miles will handle sales from the Riderwood location.

Bauer, a subsidiary of Combustion Engineering, Inc., maintains its headquarters at Springfield, Ohio, and has a plant and offices in Brantford, Ontario, Canada.

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Wheelabrator Licensed by J-M

Johns-Manville Corporation has licensed The Wheelabrator Corporation to engineer, produce and market a new concept in industrial air pollution control. The licensing agreement covers the United States and is currently being broadened to include other countries. Called "HEAF," for High Energy Air Filter, the process was designed and developed by Johns-Manville and announced by J-M early this year. It will be marketed under the Wheelabrator name of "Ultra-Dyne." The new device has been in operational test for more than a year and has demonstrated high efficiencies in the control of liquid particulate matter.

The system has the promise of a dual application. Wheelabrator believes the inherent features of Ultra-Dyne may also allow the collection of solid particulates, particularly extremely fine particulates and is currently investigating the possibility in its research laboratory at Mishawaka, Indiana. The firm is negotiating with two major manufacturers for the installation of small-scale pilot test models on plant sites. The pilot models will be equipped with recording instrumentation so that complete data can be obtained under actual operating conditions.

Ultra-Dyne employs a principle unlike any of the generally-accepted control systems. It uses high velocity air to impact particles onto the glass fibers of a filter, where the particles are captured. Prototype models have proven highly efficient in operations over the past year in J-M asphalt saturation processes and to control the discharges from phenol-formaldehyde baking ovens, part of a plastics-making process. Laboratory work already under way indicates that Wheelabrator's forthcoming design of the Ultra-Dyne may be somewhat different from the prototypes.

Mr. Kenneth E. Blessing, Vice President of Wheelabrator, stated, "It is our considered opinion, on the basis of the success of prototypes and data collected thus far, that the Ultra-Dyne has the potential of becoming the fifth basic principle in controlling industrial contaminants, joining the ranks of the fabric filter, the electrostatic precipitator, the wet scrubber and the mechanical collector."

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New Roofing Guarantees

At the 83rd Annual Convention of the National Roofing Contractors Association in February, Celotex Corporation, Philip Carey Company and GAF Corporation announced major changes in bonding and guarantee policies.

Although each company has a different program, there are many similar policies:

(1) Standard Roofing bonds will not be available from any of the three companies.

(2) Plans are being made to offer assistance to architects and specifications writers in preparing specifications and details for roofs to be covered under the new program.

(3) Employees of the manufacturer will inspect the progress of the job as it is being applied, making sure specifications are followed and good workmanship is practiced.

(4) The manufacturer will issue a broad ten-year guarantee covering roof leaks from whatever source. Some qualifications have to be made, of course, but it is not the intent to provide "loopholes" to escape responsibility.

(5) To keep the guarantee in force, the manufacturer will require that the roofing contractor make periodic inspections and maintenance of the roof.

(6) At the end of the ten-year period the owner will have the option of extending the guarantee for an additional ten years, provided any recommended repairs are made.

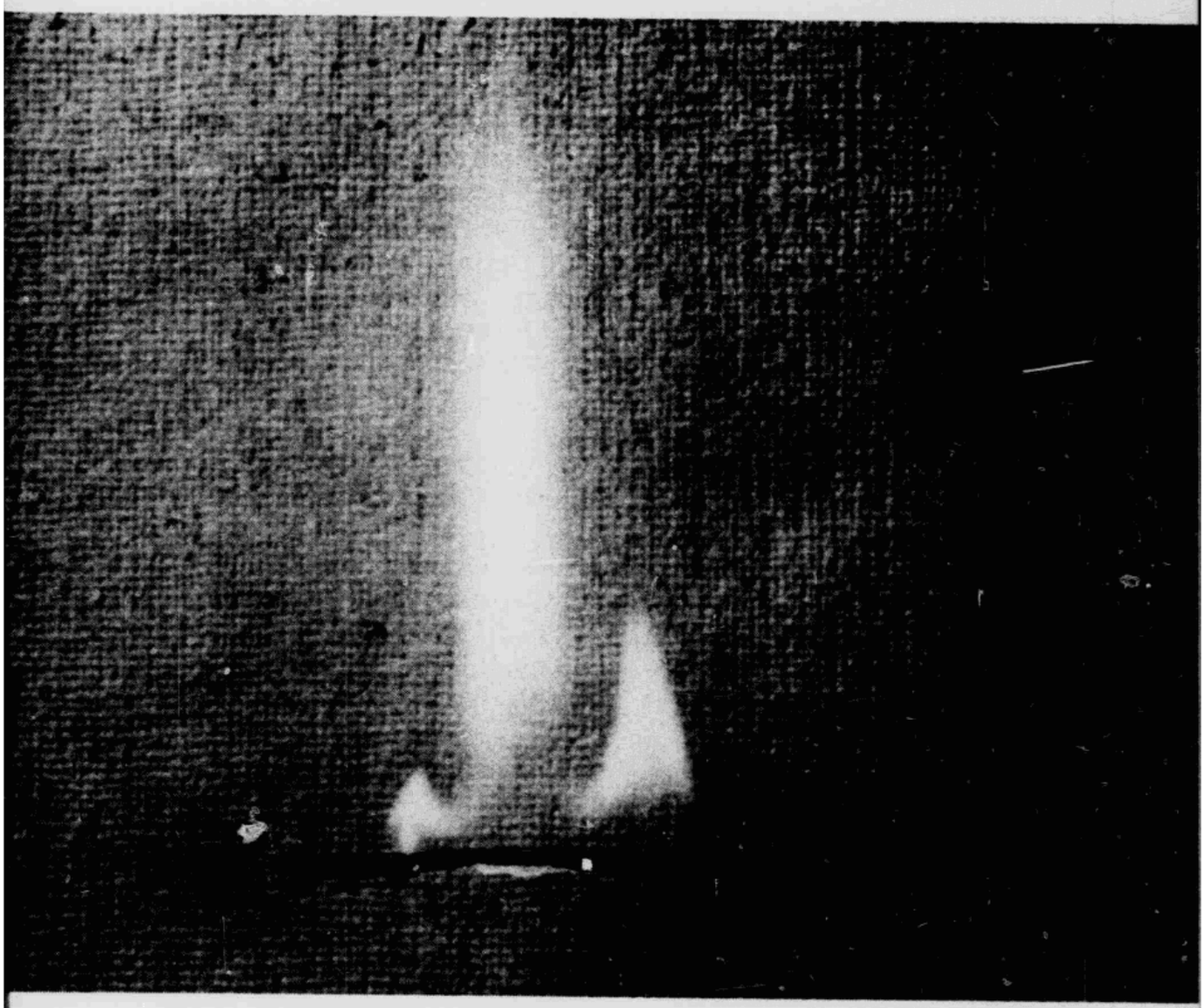
The guarantees are extensive in coverage, i.e., natural deterioration, workmanship, ridges, fish-mouths, bare spots, blisters, slippage, gravel stop or other metal failure, pitch pan failure, splits not caused by structural failure, thermal shock, etc. Not covered in the guarantee are structural failure, natural disasters, changes in building occupancy, and penetration through, or building on the membrane.

JOHNS-MANVILLE CORPORATION has completed the new fiber glass research and development center at Waterville, Ohio. The multi-building complex is located less than one mile from J-M's fiber glass manufacturing plant on River Road. J-M has ten fiber glass manufacturing plants

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ACPA Health & Safety Council

One of the major activities of the Asbestos Cement Products Association is its "Health & Safety Council," formed in 1968. The stated purposes of the Council are: (1) to initiate, develop and direct studies and public relations programs designed lawfully to promote and foster such health and safety policies and programs for the asbestos cement industry as will tend to appraise and resolve any health and safety programs peculiar to the asbestos cement industry, and (2) to assist fabricators and users in any health and safety programs and to cooperate with other groups that are studying the problem. The Council convenes four times a year and its members represent companies engaged in the manufacture of asbestos-cement pipes and sheets, i.e., Cement Asbestos Products Company, Certain-teed Products Corporation, The Flintkote Company, Supradur Manufacturing Corporation, United States Gypsum Company, GAF Corporation, Johns-Manville Corporation, Philip Carey Company and National Gypsum Company. The Chairman of the Health & Safety Council is James A. Main. (Mr. Main retired last August as Vice President of Flintkote Mines Limited and as a Director of the Quebec Asbestos Mining Association.)

ACPA member companies include Flintkote, GAF, Johns-Manville and National Gypsum. The current officers of the Association are A. H. Fay, President (National Gypsum), J. G. Hall, Vice President (GAF), E. C. Cerney, Jr., Treasurer (J-M) and Bradley Walls, Legal Counsel (Burns & Van Kirk).

CRCA OFFICERS—At its annual meeting in February, the Canadian Roofing Contractors Association elected J. M. Minialoff as President, succeeding Oscar Bjorklund. Mr. Minialoff is Vice President of Peerless Enterprises, a large Toronto-based roofing contractor. Other officers elected include P. F. Humble, Vice President; B. Quincey, Vice President; R. McColl, Secretary; and C. L. Simms, Treas-

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Mechanical Packing Association

At its meeting in April, the Mechanical Packing Association voted to change its name to the *Fluid Sealing Association*. According to President Walter J. Rooney, the new name is more descriptive of the industry group of 39 manufacturers served by the Association and will minimize confusion with other industries such as packaging, moving, and packing and storage.

A portion of the meeting was devoted to a joint session of representatives from the Association and the American Society for Testing and Materials to clarify the new "line call system" of ASTM whereby sheet packings and gaskets are classified by their basic characteristics. Each sheet manufacturer can identify his products against specific quality ratings and thus establish a generally-recognized code number for each product.

A paper on "Asbestos as Related to Occupational Health" was presented by Clifford L. Scheckler, Manager of Accident Prevention and Health Administration, Johns-Manville Corporation.

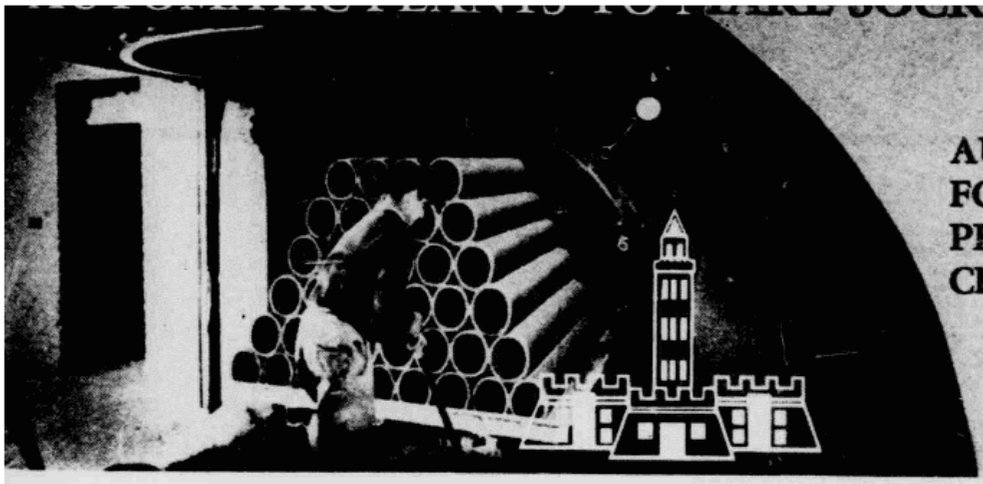
The Association welcomed four new members at the meeting: Albion Asbestos Packings Ltd., Montreal, Canada; Chicago-Wilcox Manufacturing Company, South Holland, Illinois; Sterling Packing and Gasket Company, Houston, Texas; and Uniroyal, Inc., Passaic, New Jersey.

The next quarterly meeting of the Fluid Sealing Association will be held June 25-26, 1970, at Shawnee Inn, Shawnee-on-the-Delaware, Pennsylvania.

8th INTERNATIONAL BOGOTA FAIR, a trade show operated biennially, will be held on the Bogota Fair Grounds, Bogota, Colombia, July 10-26, 1970.

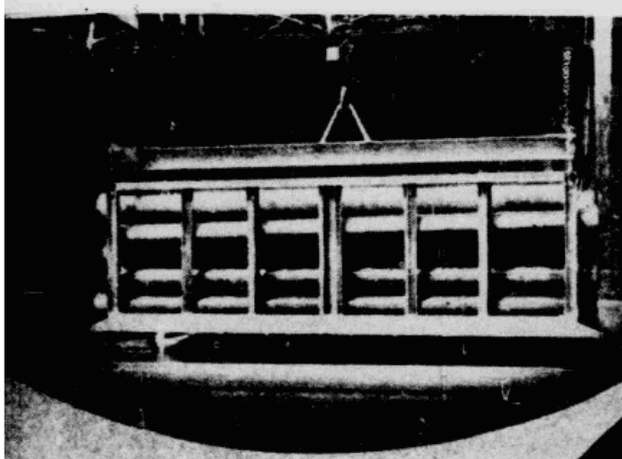
COURSE ON ADVANCED CONTROL SYSTEMS FOR THE MINERAL PROCESSING INDUSTRY will be held at Queen's University, Kingston, Ontario, Canada, August 3-14, 1970.

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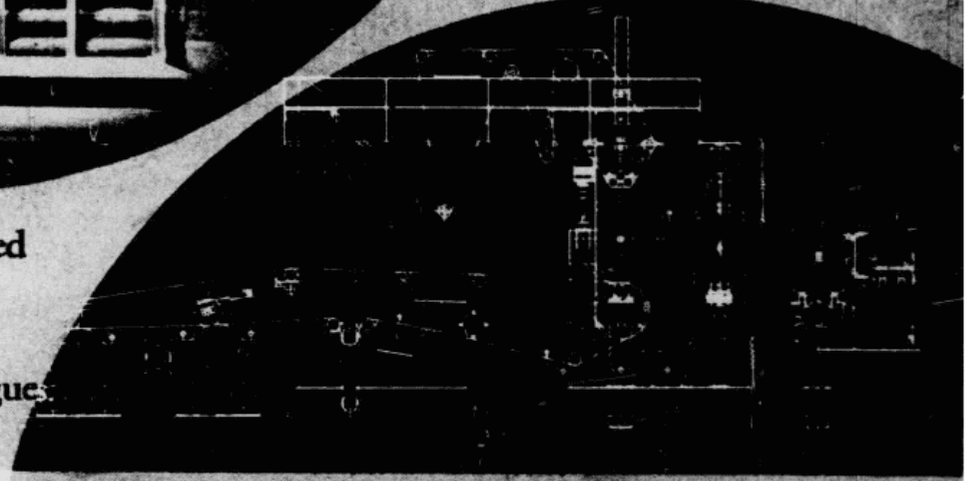


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In Memoriam

THOMAS A. MARSHALL, JR., Managing Director of the American Society for Testing and Materials (ASTM), Philadelphia, died April 9, 1970, at his home in Radnor, Pennsylvania.

He was born in Savannah, Georgia, and graduated in 1932 from Georgia Institute of Technology with a degree in aeronautical engineering. From 1932 until 1951, except for five years' duty with the U.S. Navy, he was employed by the Metropolitan Life Insurance Company. In 1951 he became Executive Secretary of the Engineering Manpower Commission and a year later was appointed Secretary of the Engineers Joint Council. From 1954 to 1960 he served on the staff of The American Society of Mechanical Engineers (ASME). Mr. Marshall joined the ASTM staff in 1960.

He served as a member of the Panel on Engineering and Commodity Standards to review the national standards program in the United States and to make recommendations for changes to meet modern needs. He participated in the revitalization of the Pan American Standards Commission beginning with his work at the Commission meeting in Montevideo in 1961.

He was also a delegate to conventions of the Pan American Federation of Engineering Societies in Venezuela in 1964 and in Mexico City in 1966. His efforts to strengthen national and international standards took him abroad several times to confer with his counterparts in the standards organizations of countries of Western Europe.

In addition to his membership in a number of engineering and scientific societies, Mr. Marshall was a Fellow of the American Association for the Advancement of Science, the Standards Engineers Society and ASME, and a Companion of the Institution of Mechanical Engineers (Great Britain). He had published many articles on standards, industrial engineering, management and manpower, and the professional devel-

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JAMES J. DURKIN, Purchasing Agent in the Piping and Plastics Industries Division of *Certain-teed Products Corporation,* retired on April 30 with fifty years of service.

Mr. Durkin began his career in 1920 as a messenger boy for *Keasbey & Mattison Company.* After various responsibilities in manufacturing and office departments, he entered the Purchasing Department in 1926, became Assistant Purchasing Agent in 1938 and Divisional Purchasing Agent of Certain-teed in 1962, when Certain-teed took over part of K&M's operations.

Mr. Durkin was honored by his fellow employees and management at a luncheon and was presented with a diamond-studded lapel pin and a Certificate of Commendation from Certain-teed "in grateful appreciation of 50 years of outstanding service, substantially contributing to the successful growth of the company."

NATIONAL GYPSUM COMPANY signed a definitive contract to acquire *DMH Corporation,* a leading mobile home manufacturer headquartered in St. Louis, Michigan. Following completion of routine acquisition procedures, consummation is subject to the approval of DMH stockholders.

In a separate action, National Gypsum reached an agreement in principle for the acquisition of *Suburban Homes,* Valparaiso, Indiana, a producer of sectional and panelized houses.

UNARCO ACQUISITION—Shareholders of *Unarco Industries, Inc.,* approved the acquisition of *Leavitt Tube Company,* Chicago, Illinois, and consolidation of the two companies into a new Delaware corporation also named "Unarco Industries, Inc." Leavitt Tube stock was exchanged for a package of new Unarco convertible preferred stocks with a redemption value of about $11 million. The consolidation was effective as of May 22, 1970.

TURNER & NEWALL LIMITED has agreed to acquire the *Flexitallic Company,* Camden, New Jersey. Flexitallic is engaged in the manufacture and sale of specialized industrial gaskets.

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BAUER

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Building

From: McGraw-Hill Information Systems Company

APRIL 1970—With many other key business indicators turning downward, the value of newly-contracted construction work in April 1970 totaled $6,756,519,000, 15% higher than the comparable year-ago total.

Nonbuilding construction, at $1,877,726,000, showed the largest gain and topped last year's total by 55%. Three giant electric generating facilities (in New Jersey, Pennsylvania and Louisiana) will cost a combined total of more than $700 million by the time they are completed. Sewer and water supply contracting and highway construction declined in April.

Nonresidential building contracts reached $2,412,652,000 and were 13% ahead of the same 1969 month. Two large industrial plants helped put the manufacturing building category ahead by 50% while commercial building posted a small gain. Institutional building contracts solidly advanced in April, with schools up 11% and hospitals ahead by 14%.

Residential—In the depressed housing market, April's contracts continued to run behind last year's amount but the gap has narrowed a bit. The latest month's value of residential building contracts was $2,466,141,000, within 3% of last April. As in previous months, the weakness in residential building was concentrated in one-family housing, while apartment construction value rose.

ALUMINUM-COATED ASBESTOS CLOTH—A new coating formulation has been developed by the *Thermoid Division of H. K. Porter Company, Inc.* that provides major advantages such as increased flexibility, abrasion resistance and reflectivity to its line of aluminum-coated asbestos cloth. The improved cloth is resistant to radiant heat up to 1000°F for approximately five minutes, with no damage to the luster of the cloth. The cloth is primarily used in the manufacture of safety clothing, welding blankets and welding knee pads. Another application is as a gasket material to reflect manifold heat from the bodies of dune buggies and other types of racing cars.

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Asbestos down on the farm.

There are a lot of contented cows and dairymen today because J-M Flexboard® asbestos-cement sheets are lining more and more dairy barns and milk houses.

These flexible boards are reinforced with asbestos fibers to increase strength and fire protection.

Asbestos also helps make building products immune to rot, rust and decay. So upkeep is low.

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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.

JM

Johns-Manville



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Automobile Sales

MARCH 1970 motor vehicle factory sales from plants in the *United States* totaled 776,945 (passenger cars—626,202, trucks and buses—150,743). The total for March 1969 was 932,282. The total for the FIRST QUARTER OF 1970 was 2,185,290 compared with 2,773,491 for the same period in 1969.

Motor vehicle factory sales from plants in *Canada* totaled 118,332 for March 1970 compared to 118,088 in March 1969. The total for the first three months of 1970 was 321,349 against 327,425 for the like period in 1969.

NOVATEX™ is the trade name of a new class of asbestos textile products to be marketed by the *Asbestos Textile Division of Raybestos-Manhattan, Inc.* The material is being manufactured at a pilot plant in North Charleston, South Carolina, and is the result of a technological breakthrough by which totally inorganic asbestos yarn is produced by a new wet process. The process from yarn to cloth is essentially dust-free.

Totally inorganic, yet flexible and light in weight, the new fabric is receptive to various aluminizing techniques and other finishes and is suitable for use in protective clothing, in the metal and glass industries and in foundries.

NOVATEX fabrics show tensile strengths higher than conventional asbestos fabrics which are one and one-half to four times heavier. At elevated temperatures, the new material retains a higher percentage of original tensile strength than glass fabrics of similar construction. The new textile conforms to ASTM Grade AAAA (99 to 100 per cent asbestos content).

AMERICAN MANAGEMENT ASSOCIATION's "6th Education & Training Equipment Exposition" will be held at the New York Hilton, New York City, August 11-13, 1970. The companion Conference, also at the Hilton, will

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Cheaper. Costs Less.

When it comes to buying respiratory protection it's not a question of health. It's only money. A cheap, strapped-on, lung-powered respirator will probably stop all the contaminants you're worried about. In fact, it stops so much it soon clogs up — if the gasping wearer doesn't rip it off first. The Rite Whitecap Helmet system uses an electrically powered centrifugal filter to spin off contaminants. No clog-up. Your filter replacement cost drops to almost nothing. More important, your lost man-hours drop too, because a worker won't "forget" to wear his Whitecap helmet. It's light. It's comfortable. It protects eyes, face and head as well as lungs. Write or phone for complete information on Whitecap Helmet systems.

RITE WHITECAP

RITE HARDWARE MFG. CO.
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Telephone: (213) 245-1746

MARKET CONDITIONS

General Business.

General business is now reflecting, very closely, the slowdown which has been so long coming since fiscal and monetary restraints were instituted to achieve this precise result. There are some signs that price inflation is also slowing but whether the public's interest in price stability will outweigh the more immediate consequences of higher unemployment, shorter work weeks and reduced total income, remains to be seen. In truth, based on the continuing credit-crunch, the persistence of the bear market in stocks (which reached new lows in May), the unexpected U.S. offensive in Cambodia and more disappointing reports of corporate earnings, it appears the controls imposed may have finally proved a bit too strong or may have been continued too long.

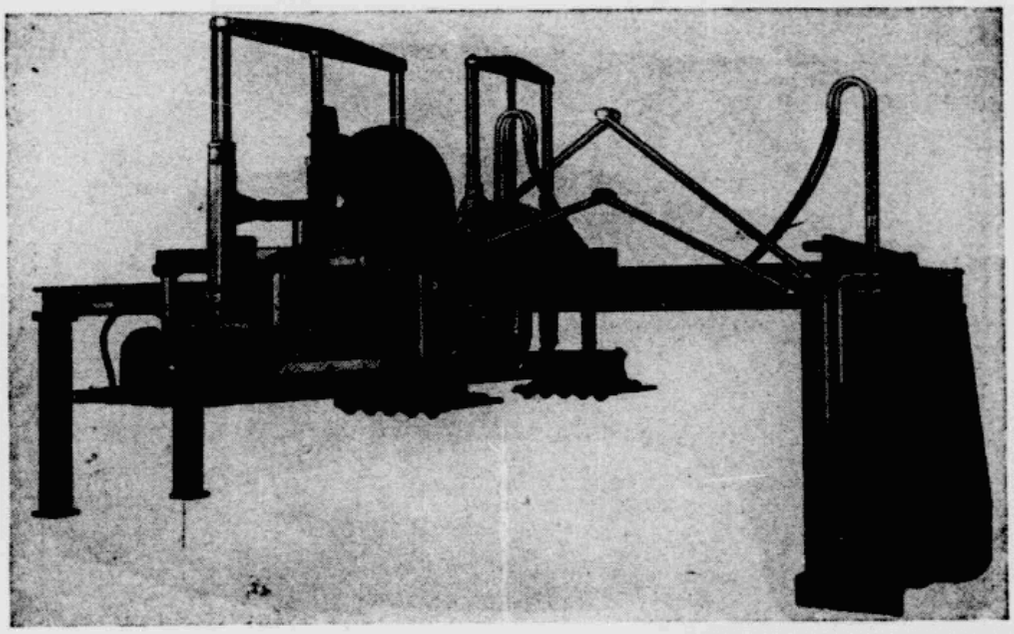
When, on the same day, a respected economist says, in effect, that the situation is so confused he declines to make any firm predictions for the near or intermediate term, and the Chairman of the Federal Reserve Board indicates the whole economy is walking a tightrope, it is not surprising that businessmen in general are turning from a mood of quiet confidence to one of much more caution and concern regarding future prospects. As we have said before, a great many active businessmen and individual investors have never experienced a major recession. While we would not presume to predict such a happening at this time, we cannot help but feel that, in the months to come, there will be some "shake-outs" and "shakeups" which may well result in substantial losses to investors, banks and lending institutions, changes in corporate managements and other significant changes in our overall business set-up. Such things are bound to occur when a new generation, schooled in the theory of "growth forever," meets up with the stern realities of a sizeable contraction in the general economy.

One hopeful note—since it has been pretty well demonstrated that Governmental controls can be used to slow down an overheated economy there is reason to believe other Governmental policies, implemented at the proper time, can be used to achieve the reverse effect and pump new life into a

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MACHINERY and PLANTS for ASBESTOS CEMENT PIPES and SHEETS



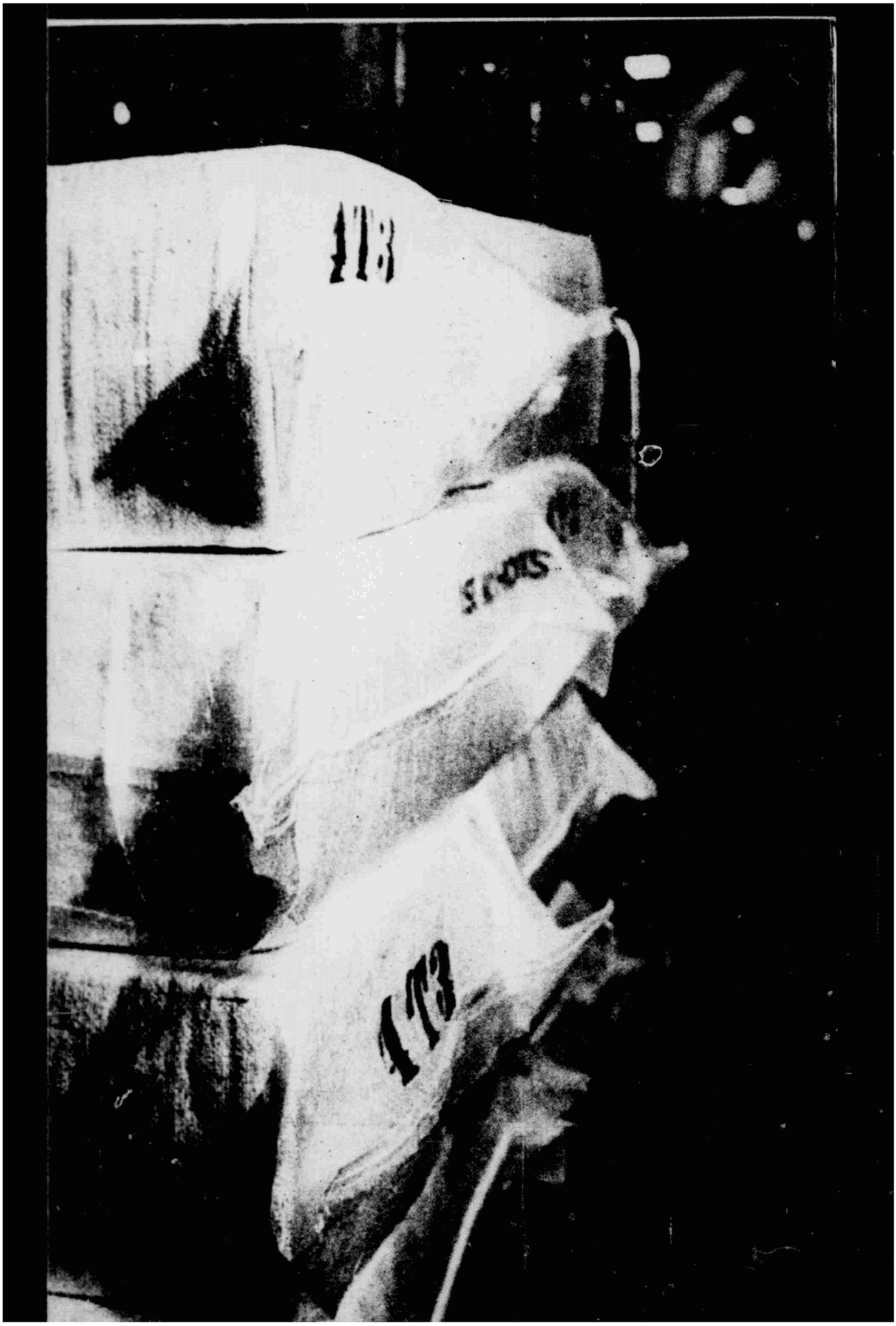
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Telex 51156—Calzoni
Telephone 384.631

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173
173

'Fabrene' protects asbestos best. So make it your bag.

You know those bright-looking reinforced plastic bags you've been seeing lately? They're made of 'Fabrene'. From Du Pont of Canada. And when it comes to packaging and protecting your products, coated 'Fabrene' bags are the best you can get. Because of their extraordinary strength. And they also happen to be rot-proof and resistant to chemicals! 'Fabrene' has these qualities – and many others, too – because it's woven plastic with film which is extruded on top of the base weave. So the weave is locked in place and really protects the contents. We know that seeing is believing. But trial is even more convincing. So next time you order asbestos, ask your supplier to send it to you bagged in coated 'Fabrene' oriented polyolefin material. It's for the best.

'FABRENE'
ORIENTED POLYOLEFIN MATERIAL
DU PONT
CANADA

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Bureau of Mineral Resources, Geology and Geophysics, Canberra, *227* short tons of Chrysotile asbestos were *produced* during the *Second Quarter of 1969,* all from mines in New South Wales. *Exports* of all types and grades of asbestos totaled 35 tons, valued at $7,000.

Production of Chrysotile asbestos during the *Third Quarter of 1969* totaled 198 short tons (168 tons from mines in New South Wales and 30 tons from mines in Western Australia). Exports of all types and grades of asbestos totaled 18 short tons, valued at $6,000.

Canada—Producers' shipments of asbestos during *January 1970* totaled 81,539 short tons (66,057 tons from Quebec plants and 15,482 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). Shipments for *February 1970* totaled 95,609 tons (75,305 tons from plants in Quebec and 20,304 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. Comparative totals are 87,608 tons for January 1969 and 83,768 tons for February 1969.

Canada produced 36,164,799 square feet (17,128 tons) of vinyl-asbestos tile during the *First Quarter of 1970.* Shipments for the same period amounted to 35,918,096 square feet (17,068 tons).

(The above quoted figures on producers' shipments of Canadian asbestos fiber and Canadian tile production were supplied by the Dominion Bureau of Statistics, Ottawa.)

New Association in South Africa—The rapid growth of the asbestos-cement industry in the Republic of South Africa has prompted South African asbestos-cement products manufacturers to form an Association, with main objectives toward improving public and labor relations, furthering interest on the part of the consumer and encouraging wider use of asbestos-cement products throughout the country.

The members of the Association represent the entire asbestos-cement products industry in South Africa and operate a total of eight asbestos-cement factories. Production capacity amounts to approximately 376,000 tons of asbestos-cement materials per year. A number of individual products are manufactured to South African Bureau of Standards specifications and carry the SABS mark of approval.

The following officers were elected at the initial meeting of the Association: Chairman, H. R. Benecke; Vice Chairman, R. N. Verley; and Member of the Executive Committee, L. B. Petters.

Registration of the Association in terms of the Industrial Conciliation Act is in progress.

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Gold Bond uses the best quality control devices known to man: people.

Sure we automated our milling equipment. Five floors of it.

But we want to be certain the particular grade of asbestos you need meets your requirements for uniformity.

So people monitor the automated mills on closed-circuit TV.

And people test each batch.

Our technicians make wet screen analyses to evaluate length and distribution of fibre...viscosity tests on absorptive characteristics...measure grit content...whatever it takes to be sure the asbestos meets your exact specifications. Batch after batch.

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

Asbestos Magazine, 1970, June 1970
ACL Doc 12638 · Page 29 of 70
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Imports Into U.S.A.

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

Unmanufactured Asbestos: **YEAR 1969**

Amosite, South Africa	14,618
United Kingdom	1
Crocidolite (Blue), South Africa	10,803
Chrysotile, Crude, Canada	2,851
Finland	1,277
France	30
Italy	1
Mozambique	55
Portugal	20
South Africa	2,850
United Kingdom	30
Yugoslavia	280
Chrysotile, Spinning Fibers, Canada	15,974
Chrysotile, Other, Canada	622,982
Portugal	30
South Africa	179
United Kingdom	255
Yugoslavia	827
Other Crudes & Fibers, Angola	62
Canada	13,624
Finland	4,958
Italy	1
Malta	1
Mozambique	217
Portugal	365
South Africa	1,485
United Kingdom	10
Yugoslavia	772
	694,558

Year 1969 unmanufactured asbestos imports were valued at $76,422,647.

Manufactured Asbestos Goods:

Asbestos Yarn, Slivers, etc.	Lb	2,854,239	$ 1,598,145
A-C Pipes, Tubes & Fittings	Lb	77,357,651	3,399,928
Asbestos-Cement Articles, Other	Lb	19,995,196	2,404,200
Asbestos Articles, Other		..	1,418,446
			$ 8,820,719

ASBESTOS

welcomes the following new advertiser:

CHR. WANDEL KG, page 57

NEWS

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The Asbestos Cement Division of Scapa Group Ltd
WAYCROSS Ga USA JOLIETTE P.Q. CANADA

Exports From U.S.A.

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

Unmanufactured Asbestos:		JANUARY 1970	
Crude & Spinning Fibers	s. tons	106	$ 25,048
Non-Spinning Fibers	s. tons	242	35,722
Waste & Refuse	s. tons	621	68,638
		969	$ 129,408

Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	631,244	$ 55,689
Other Asbestos-Cement Articles	Lb	695,646	120,792
Asbestos Gaskets	Lb	50,227	53,169
Asbestos Packing	Lb	556,485	635,760
Asbestos Heat or Sound Insulation		..	346,479
Asbestos Textiles & Yarns	Lb	1,029,643	239,289
Asbestos Protective Clothing		..	11,644
Mfrs. Other than Friction Materials		..	111,482
Clutch Facings & Linings for Auto. Use	No	218,041	174,666
Clutch Facings & Linings, Other	No	124,586	94,358
Brake Linings for Automotive Use	Lb	513,297	403,282
Asbestos Brake Linings, Other	Lb	150,163	103,477
			$ 2,350,087

Unmanufactured Asbestos:		FEBRUARY 1970	
Crude & Spinning Fibers	s. tons	223	$ 43,911
Non-Spinning Fibers	s. tons	1,363	206,957
Waste & Refuse	s. tons	2,007	247,881
		3,593	$ 498,749

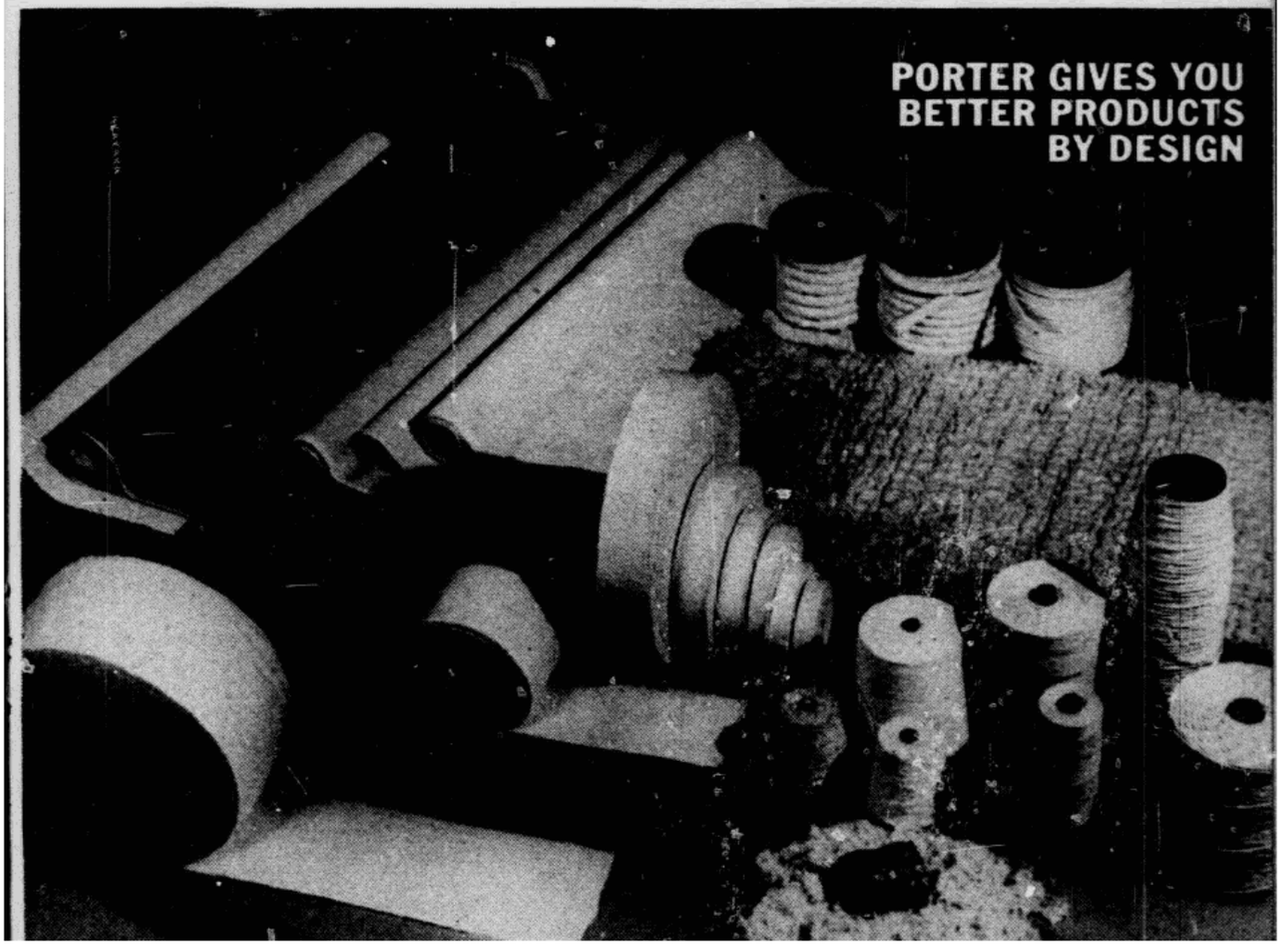
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	381,377	$ 36,139
Other Asbestos-Cement Articles	Lb	465,659	62,757
Asbestos Gaskets	Lb	18,319	50,650
Asbestos Packing	Lb	445,309	455,316
Asbestos Heat or Sound Insulation		..	156,799
Asbestos Textiles & Yarns	Lb	581,859	188,522
Asbestos Protective Clothing		..	6,514
Mfrs. Other than Friction Materials		..	317,139
Clutch Facings & Linings for Auto. Use	No	221,489	179,929
Clutch Facings & Linings, Other	No	28,998	35,327
Brake Linings for Automotive Use	Lb	494,255	357,611
Asbestos Brake Linings, Other	Lb	164,979	140,159
			$ 1,986,862

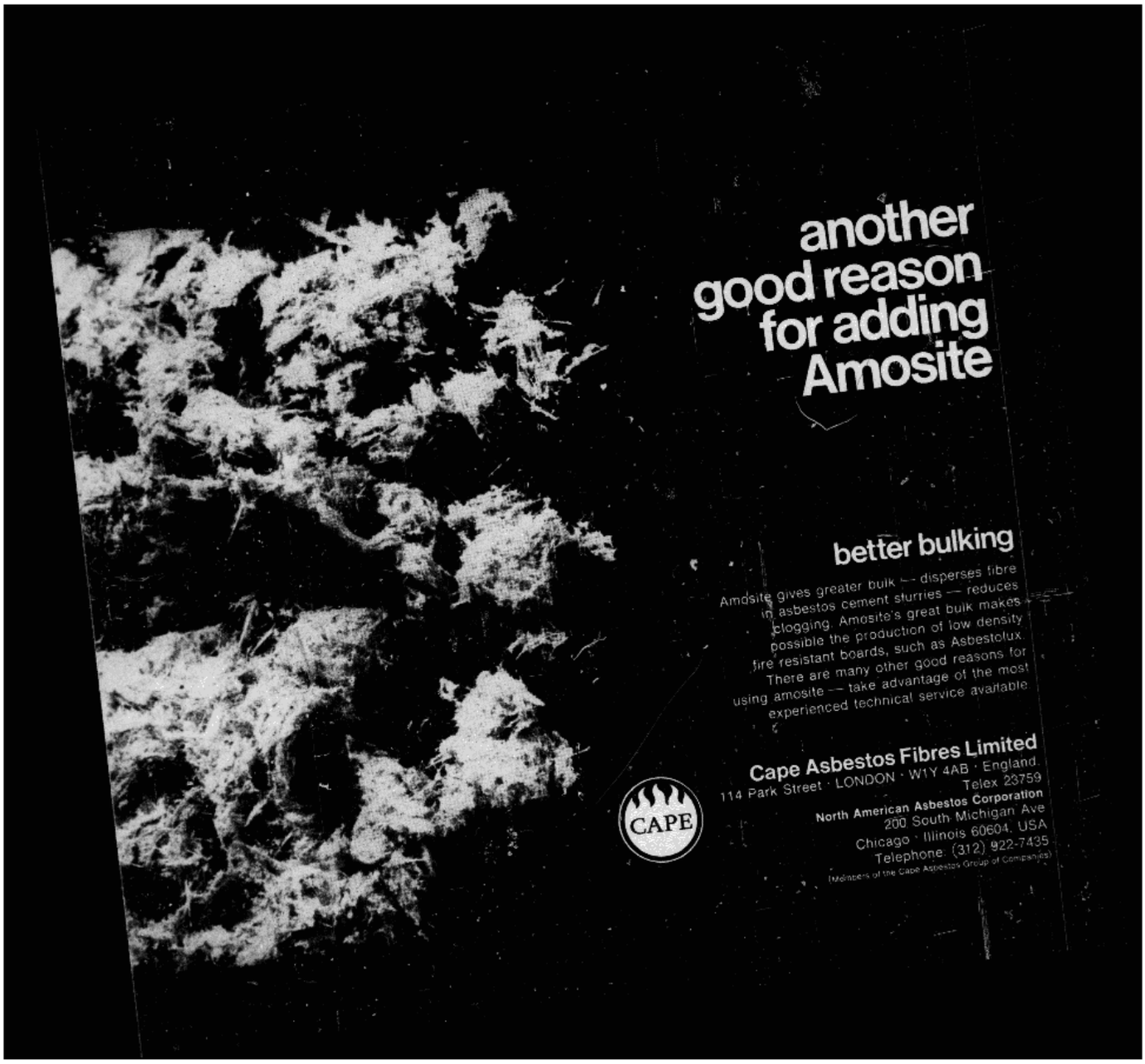
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Thermoid starts with the best grade of fibers to make the finest asbestos textiles. The line includes cloth, carded fiber, roving, yarn, cord, thread, wick, rope, and tubing from Commercial through AAAA grades. All are made in one of the industry's newest plants. Thermoid asbestos products are available with glass-reinforced yarns and a variety of chemical treatments, coatings, and finishes. Write Thermoid, H. K. Porter Company, Inc., Pittsburgh, Pa.




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Amosite gives greater bulk — disperses fibre in asbestos cement slurries — reduces clogging. Amosite's great bulk makes possible the production of low density fire resistant boards, such as Asbestolux. There are many other good reasons for using amosite — take advantage of the most experienced technical service available.
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Telex 23759
North American Asbestos Corporation
200 South Michigan Ave
Chicago · Illinois 60604. USA
Telephone: (312) 922-7435
(Members of the Cape Asbestos Group of Companies)
CAPE

Exports From Canada

(Published by Dominion Bureau of Statistics)

Short Tons

JANUARY 1970

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	1	1,016	27,566	12,870
Eastern Europe	..	100	2,730	..
Middle East	..	6	1,130	264
Africa	..	..	673	975
Asia	11	1,005	12,151	13,881
Oceania	..	7	4,355	1,498
So. & Cen. America & Antilles	..	53	7,488	2,660
United States	..	1,471	15,977	31,839
	12	3,658	72,070	63,987

The total amount of unmanufactured asbestos exported in *January 1970* was 139,727 short tons, valued at $20,473,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$153,000
Asbestos-Cement Building Materials	339,000
Asbestos Basic Products, Other	38,000
	$530,000

FEBRUARY 1970

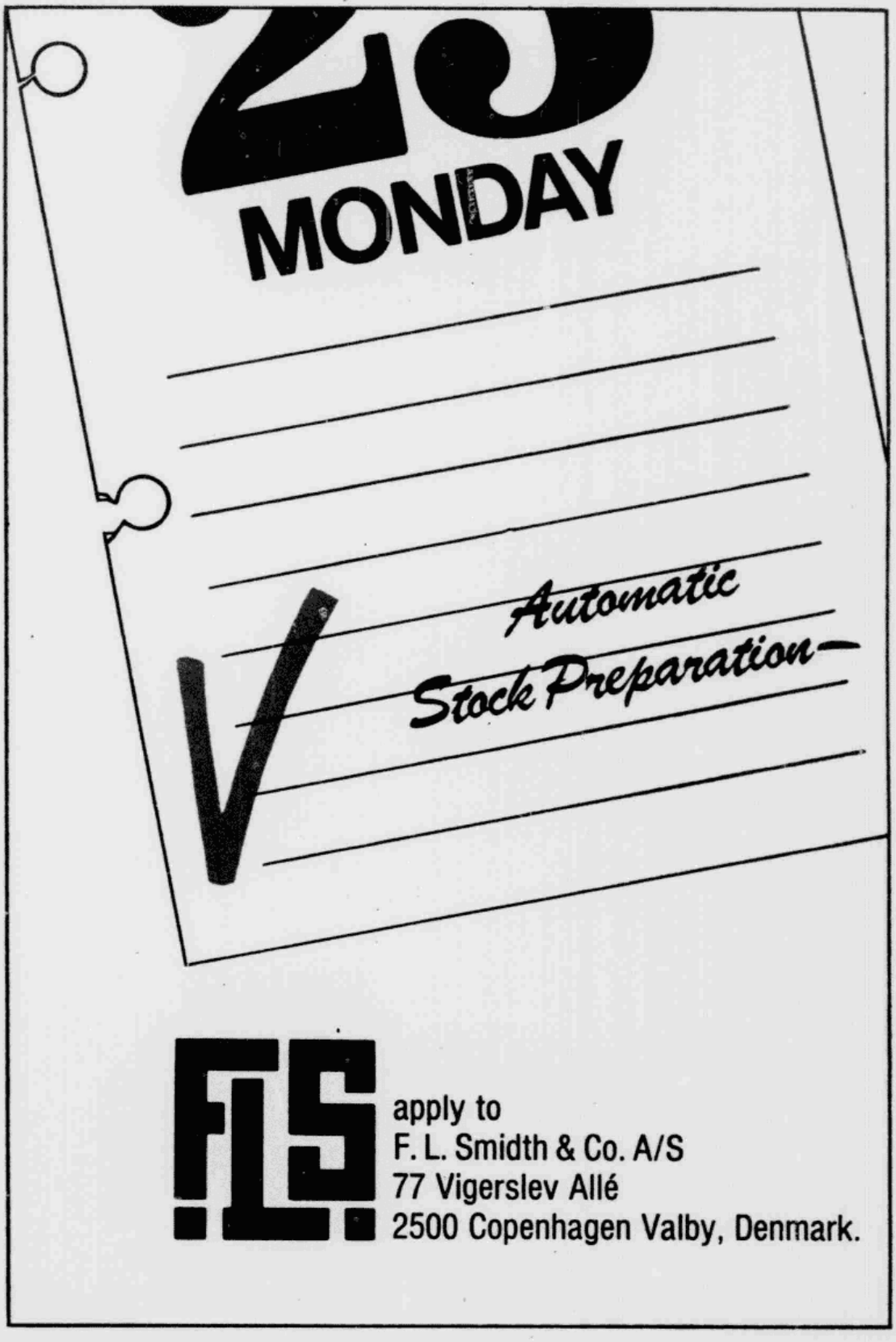
Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	840	14,618	9,080
Eastern Europe	..	..	684	..
Middle East	..	..	350	6
Africa	..	..	4,778	65
Asia	3	58	8,635	2,084
Oceania	..	..	4,176	1,795
So. & Cen. America & Antilles	..	20	4,435	1,578
United States	..	1,101	20,808	34,146
	3	2,019	58,484	48,754

The total amount of unmanufactured asbestos exported in *February 1970* was 109,260 short tons, valued at $15,929,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$265,000
Asbestos-Cement Building Materials	170,000
Asbestos Basic Products, Other	50,000

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Licensing & Investment Opportunities—*Logan Engineering Limited* (Gray Street Works, Lochee, Dundee, Scotland) is seeking arrangements with companies in the United States for the manufacture, under license in the United Kingdom, of products that fit in with its present production facilities, for mining machinery, electric locomotives, presses, shipboard equipment, etc. Logan Engineering has for some years been engaged in the supply of precision machined products on a sub-contract basis. The company is familiar with American methods of operations and is accustomed to manufacturing to American standards and specifications.

Ames Crosta Mills Limited, Heywood, Lancashire, England, is seeking arrangements with U.S. companies for the manufacture, under license in the United Kingdom, of air pollution control equipment, particularly for industrial applications. Ames is a member of the Woodall-Duckham Group of Companies. It was established in 1926 and has an annual sales volume of £2 million. About 18 months ago Ames purchased a small company engaged in the servicing of electrostatic precipitators which are extensively used for the removal of dust particles from air and gases before they are discharged to the atmosphere. It is for this recently-acquired Pionex Division that Ames is seeking licenses.

Mercantile Housing Limited, Mercantile House, 51-53 Queen Street, Colombo 1, Ceylon, seeks technical and financial assistance in the construction of a 131-acre, middle-class housing project in the suburbs of Colombo. Mercantile Housing is the subsidiary of a major Ceylonese finance company and is an approved building company under Ceylon's National Housing Act. The firm plans to erect approximately 5,000 prefabricated housing units, utilizing as many domestically-produced materials as possible. Development of the project will include paving, electricity and water and sewerage facilities. Technical collaboration is sought in connection with the construction of a prefabricating plant to manufacture the housing unit components for the actual erecting of the units. Interested investors should correspond with the Chairman and Managing Director, Mr. N. U. Jayawardena.

1968 Asbestos Products Manufacturers (Catalog No. 44-203) has been issued by the *Dominion Bureau of Statistics,* Ottawa, Canada. It contains the following *final* statistics. The total value of shipments of various asbestos products amounted to $49,990,000: $6,111,000 for automotive-type brake linings, $877,000 for textile products, $1,068,000 for paper products, and $41,934,000 for all other asbestos-based products. The adjusted value of shipments and work done totaled $49,197,000. Other tables in the literature cover principal statistics of the 15 establishments involved and relate to manufacturing activity, employment and payroll, inventories, quantity and cost of fuel and electricity purchased and used, and quantity and cost of materials

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Because our ASBESTOS SHORTS are "clean", they disperse rapidly in asphalt and other materials . . . save you production time.

GRIT- AND WHISKER-FREE FOR SPRAYED UNDERCOATINGS

Careful quality control ensures that our ASBESTOS SHORTS are free of grit and other minute particles that clog spray equipment.

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

Asbestos—Demand for asbestos fiber increased in 1968 primarily as a result of a rise in construction activity and in automobile production. Despite the increased demand in these two important sectors, United States production (shipments) of asbestos declined 2% in volume and 6% in value. However, a 14% increase in imports covered rising U.S. requirements. U.S. exports of manufactured asbestos products in 1968 increased 3% over those in 1967. Imports of Amosite from South Africa increased 63% while imports of Crocidolite from the same source decreased 6%. Low-iron, spinning-length, Chrysotile imports from British Columbia decreased to 6,086 tons and imports of all grades from B.C. decreased 14%.

The asbestos-cement industry in the U. S. was the largest consumer of asbestos fiber, requiring an estimated 50% of the world's asbestos production. The second largest use was in the floor tile industry with an estimated U.S. consumption of 200,000 tons.

In 1968, production (sales) of asbestos in the United States reached 120,690 tons, valued at $10,406,000. Exports and re-exports of unmanufactured asbestos amounted to 41,236 tons, valued at $4,679,000. The value of exports and re-exports of asbestos products totaled $24,527,000. Imports for consumption of unmanufactured asbestos totaled 737,909 tons, valued at $72,930,000. Apparent consumption (measured by quantity produced, plus imports, minus exports) was 817,363 tons. The total world production of asbestos was not available for 1968 (the figure for 1967 was 3,094,784 tons).

Technological advances in 1968 related more to new products and applications than to developments in mining and milling. Union Carbide Corporation developed a process for shearing asbestos to obtain a high degree of fiber separation. The product is then pelletized to provide an improved material for use in drilling muds.

Improved characteristics of thermoplastics resulted from the use of asbestos additives. It was reported that such additions increase strength, rigidity, gloss and heat stability of various plastic products.

The General Services Administration, in 1968, disposed of 2,681 short tons of asbestos from Government inventories. As of December 31, 1968, inventories included 65,311 tons of Amosite, 10,463 tons of Chrysotile (plus 4,881 tons of sub-specification Chrysotile) and 48,072 tons of Crocidolite.

Total production of six grades of asbestos in 1968 in the USSR was estimated at 881,848 short tons.

Market Quotations were unavailable for African and Australian asbestos because sales were negotiated privately. The following values were calculated from U. S. Department of Commerce import data (per short ton): Amosite from the Republic of South Africa, $149.00; Chrysotile from Southern Rhodesia, $184,00; Chrysotile from South Africa, $194.00; and Crocidolite from South Africa, $193.00.

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INDUSTRY NEWS

HAPPY BIRTHDAY

Harry A. Jensen, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, July 17.
W. R. Doughty, Managing Director, Cape Universal Building Products Ltd., Watford, Hertfordshire, England, July 18.
Thomas W. Russell, Jr., Chairman of the Board & Chief Executive Officer, Abex Corporation, New York City, July 19.
Wallace R. Tyrie, General Manager, Melamite Division, Johns-Manville Corporation, New York City, July 19.
C. Brown Whitley, President, Scandura, Inc., Charlotte, North Carolina, July 20.
Joseph A. Colagreco, Vice President & General Manager, Asbestos Corporation of America, Garwood, New Jersey, July 21.
Albert G. Kovacs, Manager of Industrial Relations, GAF Corporation, New York City, July 21.
William S. Simpson, President & Chief Executive Officer, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.
Richard Deininger, Vice President, Research & Engineering, Nicolet Industries, Inc., Ambler, Pennsylvania, July 24.
Dimitry Poutiatine, Vice President, Johns-Manville International Corporation, New York City, July 25.
Mrs. Nina Schwezoff, Vice Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, July 25.
George C. Anderson, Marketing Manager-Granules, Industrial Products Division, GAF Corporation, New York City, July 29.
Clinton B. Burnett, President & Chief Executive Officer, Johns-Manville Corporation, New York City, July 29.
Jay T. Derrick, Vice President of Industrial Relations-Panacon, Philip Carey Company, Cincinnati, Ohio, July 29.
Kenneth Karn, Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, July 29.
Thomas A. Dent, Vice President of Commercial Development, GAF Corporation, New York City, July 30.
George R. R. Wahl, Assistant General Manager, Pipe Division, Johns-Manville Corporation, New York City, July 30.
C. B. Brown, Director, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, August 1.
Frederic H. Main, Director, Hedman Mines Ltd., New York City, August 1.
Herbert H. Anderson, Vice President of Research & Engineering-Panacon, Philip Carey Company, Cincinnati, Ohio, August 4.
Edward J. Killian, Divisional Vice President-Manufacturing Operations, National Gypsum Company, Buffalo, New York, August 4.
Edward A. Martin, Group Vice President, Consumer, Industrial & Plastic Products Divisions, Uniroyal, Inc., New York City,

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ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS ASBESTOS CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA



Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

Asbestos Magazine, 1970, June 1970
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asbestosclaims.law/library/12638/42

H. Kenneth Passmore, Secretary-Treasurer & Director, Hedman Mines Ltd., Timmins, Ontario, Canada, August 5.

G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.

H. A. Woody, Mine Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, Canada, August 6.

R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.

J. W. Fortner, Operations Manager, Davidson Works, Thermoid Division, H. K. Porter Company, Inc., Davidson, North Carolina, August 8.

Arthur C. Smith, Vice President for Corporate Growth & Development, Johns-Manville Corporation, New York City, August 8.

J. M. Dunn, President, Standco Industries, Inc., Houston, Texas, August 9.

Melvin H. Baker, Honorary Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

William J. Crane, Financial Vice President, Uniroyal, Inc., New York City, August 12.

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Pacific Asbestos Limited, Toronto, Canada, announced that an underwriting agreement has been signed between Woodsreef Mines Ltd. and R. F. Arthur & Co., stockbrokers in Sydney, Australia. The agreement provides for the underwriting of 68 million shares of Woodsreef Mines at 25c per share.

The aggregate proceeds to be received from the offering are $17,000,000 (Australian). At the completion of the underwriting Pacific Asbestos will own 56.875% of the issued shares of Woodsreef as a result of the purchase by Woodsreef of the shares of Pacific's Australian subsidiaries, including the shares of Bowlake Nickel & Gold Pty. Ltd. The latter shares are to be acquired by Pacific from Bamboo Creek Gold Mines Ltd. for 1,000,000 shares of the capital stock of Pacific. The acquisition will result in Pacific Asbestos having approximately 5.7 million shares outstanding.

The transactions are subject to the approval of shareholders of Pacific and Bamboo Creek and of certain regulatory bodies.

Metate Asbestos Corporation, Globe, Arizona, was visited by Michael Walter, Sales Manager for TROPAG, Hamburg, Germany. Mr. Walter is making a tour to become acquainted, first-hand, with the products of the many United States companies with whom Tropag deals. Metate has sold its asbestos fiber to the German firm for over a decade. Tropag resells the fiber in the European Common Market.

Nicolet/Colombia—Nicolet Industries, Inc., Ambler, Pennsylvania, recently received approval from the Republic of Colombia to develop an asbestos mine in the remote mountainous section of the Department of Antioquia, Colombia. The discovery of the asbestos-bearing property is a result of a long search made by Nicolet's development personnel.

Wolfe Asbestos and Magnesium Mine Limited erected a small asbestos mill last year on the former Dominion Asbestos Mine property at St. Adrien de Ham, Quebec, Canada. The company is presently milling the tailings which contain a good percentage of Group 7 fiber. A secondary product is being produced and sold to agricultural firms.

Correction—The January 1970 issue of ASBESTOS, page 46, carried an item on the asbestos activity in 1968 of *Sociedade Anonima Mineracao de Amianto*. The article erroneously stated that the company was an asbestos producer in "Greece." It should have read: S.A. Mineracao de Amianto is one of the major producers of asbestos fiber in Brazil.

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Cape Asbestos in Japan & Mexico—Cape Asbestos Co. Ltd's non-combustible board, *Asbestolux,* was installed in various airport buildings in Japan. The product was made by Cape Asbestos licensees, *Nippon Asbestos Co. Ltd.,* in its Fukuroi Works. Nippon is also licensee for the manufacture of *Caposite* insulation and the firm recently completed insulating a nuclear reactor at the Tokai-Mura atomic power station.

Johns-Manville Corporation is the licensed manufacturer of Caposite produced under the tradename "Amobestos" by *Johns-Manville Mexicana S.A. de C.V.* One recent contract was for insulating a petrochemical plant which will produce phosphoric fertilizers for export. The plant, Fertilizantes Fospatodos, at Coatzacoalcos, Veracruz, is part of the Pajaritos complex and involved a total investment of $65 million.

(As a matter of interest, a thriving asbestos-cement industry exists in Mexico and a large factory, connected with J-M, manufactures a wide range of products, including a jumbo-sized, 24-foot long corrugated sheet.)

Everite Limited, Johannesburg, Republic of South Africa, has announced plans for expansion and new construction at its various asbestos-cement factories.

Work will soon commence on a new pipe plant at the factory at Kliprivier, Transvaal. The building will have an overall floor area of approximately 130,000 square feet.

Following Everite's acquisition of Asbestos Cement and Engineering (Pty) Ltd., a Windhoek Company, plans are being formulated for a new factory in South West Africa.

Production capacity will be increased as a result of an expansion of the existing plant at East London. This project will cost in the neighborhood of R500,000.

A further R300,000 will be expended for the construction of new office buildings at Everite's Brackenfell Cape factory. Work is to begin in about four months.

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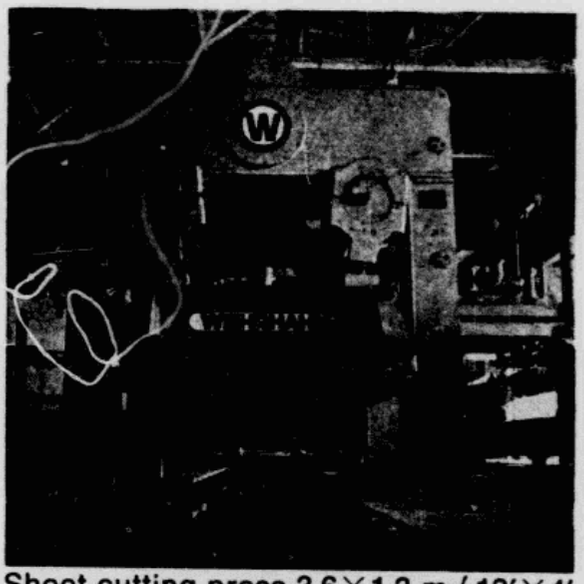
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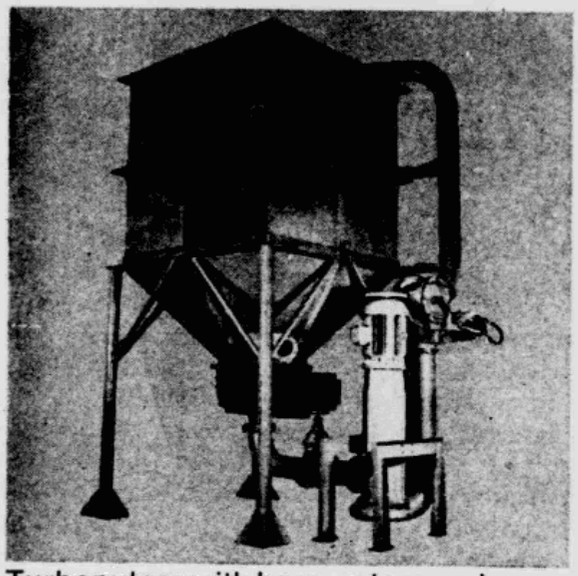
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NOTES FROM 1969 ANNUAL REPORTS

CASSIAR ASBESTOS CORPORATION LIMITED

Profit from operations was $14,997,704 before providing for depreciation, waste removal and other write-offs aggregating $6,544,781, leaving a net profit before income taxes of $8,452,923. Provision for income taxes for the current year less a credit withdrawn from the income taxes deferred account resulted in a net profit for the year of $6,662,923 or $1.27 per share as compared to $4,832,392 earned in 1968 or 92c per share.

Capital expenditures at the Clinton Mine for plant and equipment amounted to $1,520,662 and waste removal cost $1,396,342. At the Cassiar Mine, costs were $1,156,391 for plant and equipment renewal and $2,555,898 for waste removal. At Whitehorse and North Vancouver $331,613 were expended on buildings and equipment.

Subsequent to the end of the year, Directors of Cassiar authorized the issuance of shares to James Hardie Asbestos Ltd. and to Raybestos-Manhattan, Inc. Both companies are shareholders and major customers. The share issue will provide new capital which will be used for the expansion of the Cassiar Mill and for additional equipment at the Clinton Mill.

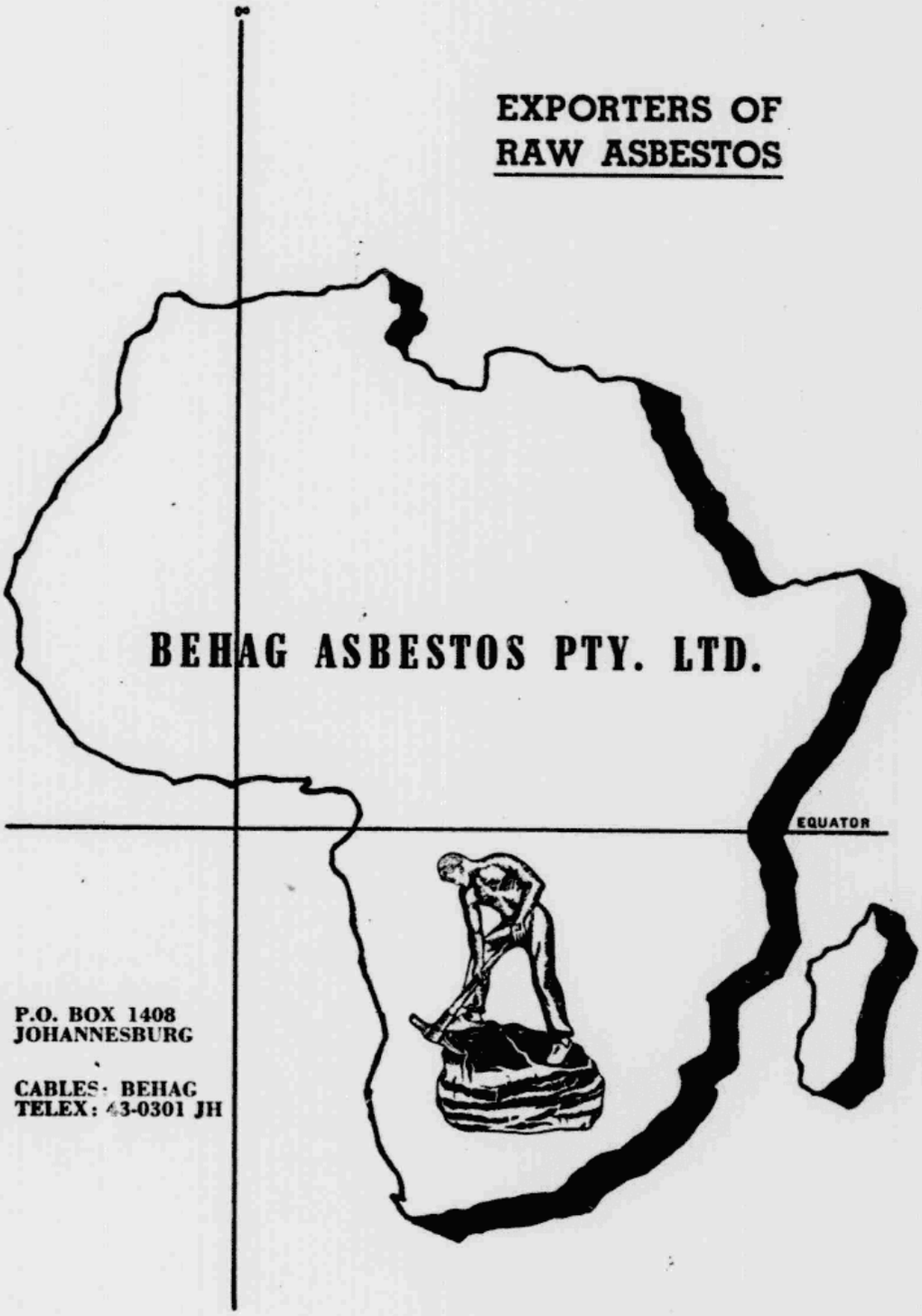
Fiber sales rose to a new high of 171,493 tons valued at $37,188,930, compared with 124,728 tons valued at $27,119,821 in 1968. Shipment of an additional 7,740 tons valued at $1,613,520 scheduled for delivery in 1969 was delayed until early 1970 due to the longeshoremen's strike in Vancouver during October and November.

Cassiar Mine and Mill—716,118 tons of asbestos ore were mined. The shear blasting technique now being tested is proving quite successful. If this trend continues it will be possible to steepen the slope of the pit walls to approximately 45°, which in time will result in reduction in the deferred waste-removal account. The mill treated 612,814 tons of ore and concentrate and produced 79,591 tons of fiber. Preliminary planning of the mill expansion has been completed and the construction contract has been let. The new unit is expected to be on stream in December 1970 and will increase the annual capacity from 75,000 to 100,000 tons of present grades on a five-day week. In addition, about 10,000 tons of new short grade (AZ) will be produced. Probable ore reserves at the mine, within the presently planned pit limits and to a depth of 340 feet below the lower adit are estimated at 24,250,000 tons.

Clinton Mine and Mill—1,012,937 tons of ore were mined and delivered by tramline to the mill. The mill treated 952,889 tons of ore and produced 87,820 tons of fiber. Improved rock rejection was achieved at the head end of the mill after secondary crushing by the addition of a number of rock screens. As a result fiber capacity of the mill was not affected by the elimination of the rock rejection circuit. A number of changes and additions to the circuits are being made to increase the annual capacity in 1970 to approximately 100,000 tons of fiber. It is expected that a limited tonnage of spinning fiber

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will be produced during 1970. Probable ore reserves, to a depth of 200 feet below the adit, are estimated at 22,000,000 tons.

Kutcho Creek Asbestos Company—A limited amount or trenching and geological work will be undertaken in 1970. The announcement that Pacific Great Eastern is planning to construct a railroad into the Dease Lake area in the near future will justify an early review of the potential of this property.

GAF CORPORATION

GAF Corporation's consolidated net sales in 1969 rose 6% over the preceding year to $606,254,000. Although this was the sixth straight year that a new sales record was set for the Company, it marked the smallest percentage increase in the period. This reduced rate of sales growth, particularly evident during the second half of the year, combined with higher depreciation, sharply increased interest costs, higher labor costs and heavy expenses throughout 1969 for new plant start-ups and the introduction of new products led to less favorable operating results. Net operating income for 1969 was $15,242,000, compared to $21,232,000 for 1968.

An estimated loss of $4,175,000 on the disposal of certain plant facilities and related costs was provided for, reducing net income for the year to $11,068,000, or 54c per share. Plant and equipment expenditures totaled $22,090,000. Capital projects approved at year-end for which funds will be expended in 1970 and later years totaled $38,,606,-000. Working capital at year-end amounted to $197,950,000.

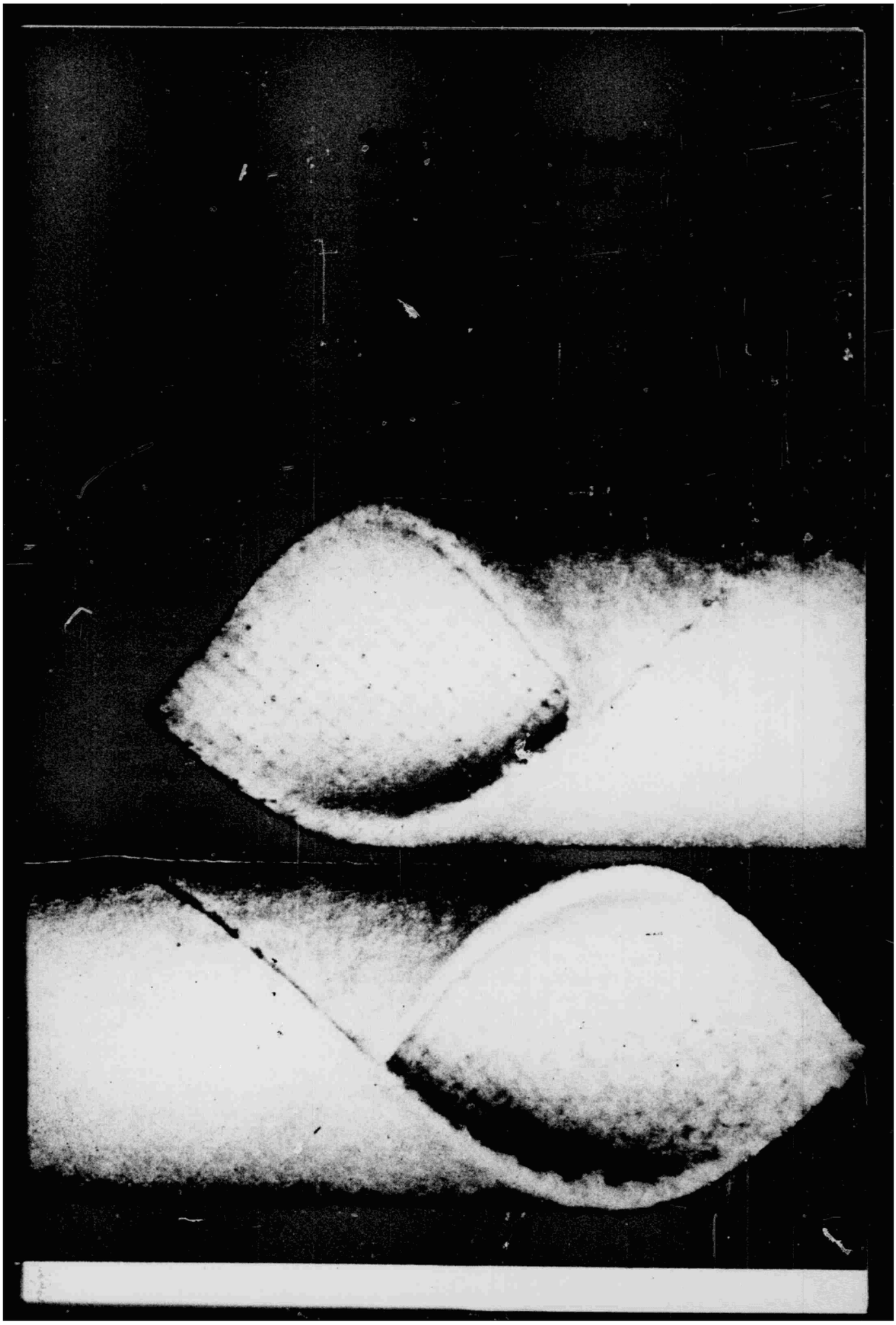
Major expansions at the photographic plant in Binghamton, New York, and the new chemical plant at Texas City, Texas, were successfully brought on stream in 1969. The new chlorine-caustic facility at Linden, New Jersey, is gradually progressing towards full operating efficiency.

GAF's vigorous marketing operations were particularly evident in the building materials segment of the Company's business in 1969. The handsome GAF Stratalite™ laminated mineral siding, which simulates hand-split cedar shingles, showed increased sales. In response to the construction industry's rising costs, GAF promoted coated felts for built-up, commercial roofs and it is expected that GAF will accelerate its promotion in this area in 1970. Another product with increased sales potential is GAF's canal bulkhead mineral fiber corrugated sheeting, designed to retain land fill in tidewater reclamation projects.

GAF extended its Construction Systems Unit, organized in 1968 to expand GAF product lines and uncover new opportunities in the mobile housing field. The unit was broadened last year to include the growing sectionally-built housing market. Working with modular housing producers, the Unit is developing new siding, roofing and components.

GAF's limited gypsum operations at Wheatland, New York, were closed down at the end of 1969. Since there is no foreseeable change in the gypsum outlook for GAF, it was decided to withdraw from this business.

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stantially during 1969 with increased sales in both the floor tile and sheet-vinyl areas. A major expansion program is planned for the plant at Whitehall, Pennsylvania. The project, to cost in excess of $10 million for building, equipment and auxiliary facilities, will substantially increase GAF's capacity to manufacture sheet-vinyl flooring.

Sales of GAF's Industrial Products Division continued upward in 1969 on the basis of its capability to engineer products for specific industry needs. Of major importance during the year was the successful entry into sales of complete filtration systems, a fast-growing market emerging from the increased need for improved manufacturing controls in a wide variety of chemicals, paints and other industrial liquids. The entire asbestos paper and millboard line also advanced, aided by substantial orders for asbseos paper and discs from major manufacturers of gaskets and plate glass. The Mineral Products Group, which mainly markets roofing granules and asbestos fibers, maintained sales close to the 1968 level despite the turndown in residential housing. Expansion programs were undertaken in Westerly, Rhode Island, to increase production of synthetic felts and in Hyde Park, Vermont, to increase production of asbestos fibers.

GAF's widespread marketing enterprise beyond the borders of the United States accounted for $68,975,000 in sales in 1969, up 12.6% over the previous year. A GAF Export Corporation was established in 1969. The new unit is responsible for marketing all products manufactured in the United States and sold elsewhere in the Western Hemisphere. In Canada, a merger was completed between GAF (Canada) Ltd. and its former distributor of Sawyer's Photo Products. In England, the Floor Products Division completed its first full year of operation with notable success. In Australia, GAF acquired substantial holdings in Consolidated Reprographics, Ltd., including its wholly-owned subsidiary, Drawing Office Industries.

GAF entered into an agreement with Uniroyal, Inc., to purchase its present multi-million dollar research complex at Wayne, New Jersey. The facility, when occupied by GAF in 1972, will enable the company to centralize its principal research centers in one location and more effectively apply the knowledge and skill of its research scientists and technicians to longer-range research on present and future product lines.

UNITED ASBESTOS CORPORATION LIMITED

According to the Annual Report of United Asbestos Corporation Limited and its wholly-owned subsidiary, Detinu Holdings Limited, for the year ending December 31, 1969, net income for the year rose 46% to $1,540,522 or $0.31 per share, compared to $1,051,200 or $0.21 per share for 1968.

The joint-venture operation with Lake Asbestos of Quebec Ltd. established new records for tonnage and value of fiber produced. Production of fiber amounted to 126,769 tons compared to 123,672 tons in 1968. The worldwide demand for fiber continued during the year and sales amounted to 132,631 tons.

Pit development continued on schedule with company crews re-

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PROJECT MANAGER

(ASBESTOS)

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placing the contractor. A new shovel and four 50-ton haulage units were added to the fleet.

The mill treated 2,323,000 tons of ore after discarding 1,438,000 tons of waste during concentration. The mining of benches in the "B" orebody contributed to an increase in value of the fiber produced. This increase in fiber value will continue until the "B" orebody is fully developed.

Ore reserves were maintained during the year and at the present rate of extraction stand at some 20 to 25 years life. A limited program of diamond drill exploration was conducted during 1969.

Asbestos markets for 1970 are strong and the acceptance in the industry of extruded asbestos-cement products has widened the market for the type of fiber produced by United.

The sale of Transit Mixed Concrete and Builders Supply Ltd. was completed in 1969 and eliminates the company's equity interest in the concrete products industry.

In the exploration field United Asbestos relinquished its option on 18,700 acres of property in the Mont Laurier uranium area of Quebec due to inconclusive results. United Asbestos increased its interest and now holds an equal participation with Allied Mining Corporation in a block of claims covering some 2,500 acres in Leman Township.

The company is actively continuing the investigation, exploration and development of promising mineral properties.

Msauli Asbes Limited, Johannesburg, Republic of South Africa, submitted the following report of operations for the First Nine Months of its current Fiscal Year. As of March 31, 1970, 1,596,294 tons of overburden were removed and 304,250 tons of ore were crushed to produce 21,967 tons of asbestos fiber. The percentage of fiber recovered was 7.22%. Sales of fiber were valued at R1,515,022 and the estimated profit figure amounted to $29,365. R862,038 was expended on the new project for the erection of the mill and extension of production. The total amount spent on the new project as of December 31, 1969, was R4,090,621.

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by C. Z. Carroll-Porczynski

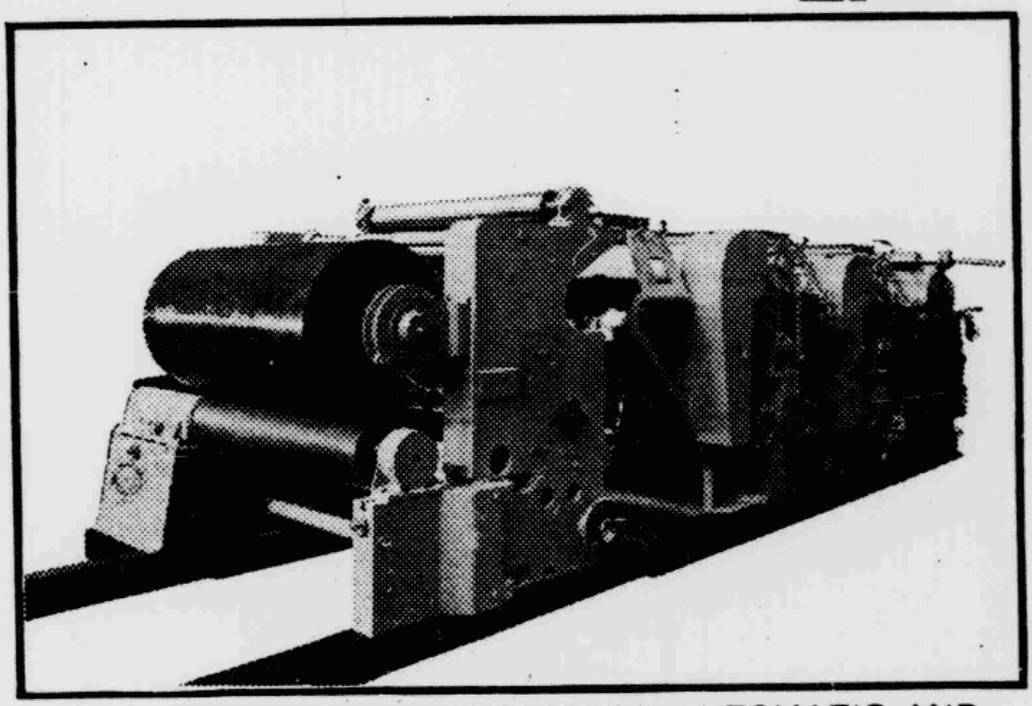
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PERSONNEL NEWS

ASBESTOS CORPORATION LIMITED

At a meeting of the Board of Directors on May 27, 1970, following the annual Shareholders meeting, *Roger Lewis* was elected Chairman of Asbestos Corporation Limited and *Frank E. Thurston* was appointed Vice-President of Northern Operations. Mr. Lewis is Chairman and President of General Dynamics. Mr. Thurston was formerly Manager of the Asbestos Hill Project.

CANADIAN JOHNS-MANVILLE CO. LTD.

J. R. M. Hutcheson and *G. P. Loubert* were elected Directors and appointed Vice-Presidents of C.J-M. As Operations Manager of the Asbestos Fibre Division, Mr. Hutcheson is responsible for the exploration and production of asbestos fiber. Mr. Loubert, Assistant General Manager of the Canadian Products Division, is responsible for the manufacture and sale of a variety of industrial products and building materials in Canada.

NICOLET INDUSTRIES, INC.

Recently-announced organizational and management changes reflect Nicolet's entrance into new businesses: *J. K. Whittaker,* Vice President, Asbestos Products Division; *George Griswold,* Project Manager, Nicotex, Inc. (a new manufacturing subsidiary); *J. G. Gauthier,* Mining Operations Manager; and *R. D. Deininger,* Vice President of Research and Engineering. Mr. Whittaker, formerly Vice President-Marketing, will be responsible for the manufacture and marketing of asbestos paper and board and specialty asbestos gasketing materials. Mr. Griswold will be responsible for a new asbestos textile project and Mr. Gauthier will have full responsibility for the new asbestos mining project in South America. Mr. Deininger will be responsible for all process and product development and the engineering services required by the Asbestos Products Division, the Mining Department and Nicotex, Inc.

NORTH AMERICAN ASBESTOS CORPORATION

James J. Polizzi is now Vice President of NAAC. Formerly General Manager for West Coast Sales, Mr. Polizzi has been with the company since its founding in 1953.

RAYBESTOS-MANHATTAN, INC.

Ronald A. Moalli, formerly Chief Sales Engineer for the Raybestos Division, has been promoted to Technical Director for R/M International. He will be responsible for the technical functions of R/M foreign licensees and subsidiary companies. In addition, he will begin making preparations for the establishment of a corporate engineering service program which will serve R/M domestic divisions and international subsidiaries.

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ASBESTOS STOCK QUOTATIONS

Close—May 22, 1970

Abitibi Asbestos	*$5.10
Advocate	**$2.15
Asarco	26¾
Armstrong Cork	24⅞
Armst Cork (pfd 3.75)	49½
Asbestos Corporation	*$24.00
Bendix	21⅝
Bendix (pfd 3)	41
Carlisle	10¼
Cassiar	*$18.25
Certain-teed	16⅞
C-teed (pfd .90)	19½
Conwest	*$7.50
Flintkote	19¼
F-kote (pfd-A 4.50)	69
F-kote (pfd-B 2.25)	29
GAF	10⅛
GAF (pfd 1.20)	16½
Garlock	14⅞
Glen-Alden	5¼
G-Alden (pfd 3.15)	47
G-Alden (pfd 3)	40
G-Alden (pfd 2.25)	24¾
Grace	21⅞
Gulf & Western	10⅜
G&W (pfd 1.75)	33⅞
G&W (pfd 3.50)	46¾
G&W (pfd 3.87)	37½
G&W (pfd 5.75)	59
Illinois Central	19¼
Ill. Central (pfd 3.50)	44
Johns-Manville	28⅛
Maremont	8⅛
National Gypsum	16½
Natl Gypsum (pfd 4.50)	58
Panacon	2½
Porter (pfd 5.50)	64
Raybestos-Manhattan	27⅜
Unarco	8⅜
Union Carbide	31⅛
Uniroyal	13⅝
Uniroyal (pfd 8)	95
United Asbestos	3⅛

*Canadian currency

**Canadian currency; Close—May 19

(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.

N69 33321—Failure Criteria for Filamentary Composites, by the NASA Lewis Research Center, Cleveland, Ohio.

N69 38853—An Experimental and Analytical Study of Water Heat Pipes for Moderate Temperature Ranges, by the University of Alabama, University, Alabama, for NASA.

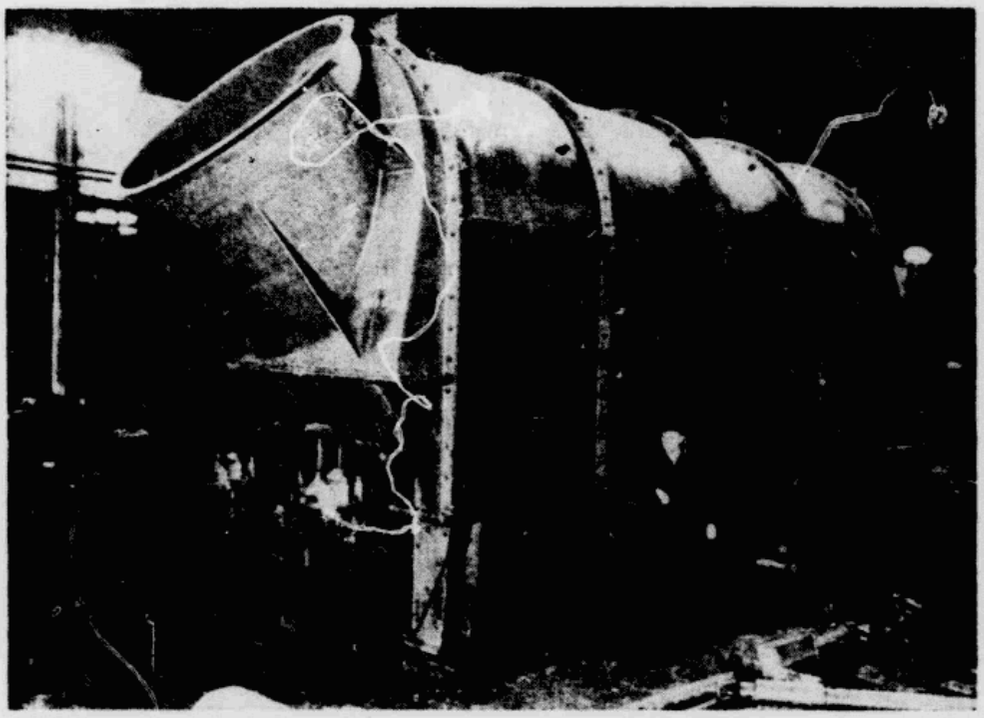
NASA TB 69—10615—Design of Multilayer Insulation Systems, by G.R. Cunnington, Jr., Lockheed Missiles and Space Company; results of these studies indicate the most desirable materials to be used for the 300°-700°K range are metallized polyimide film for the reflective shields and submicron-size glass fiber paper for the spacer.

NBS BSS 1—Performance of Buildings/Concept and Measurement; Proceedings of the first in a series of Conferences on Man and His Shelter, held September, 1968 ($2.75 per copy).

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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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Remember When?

(June 1920 ASBESTOS)

New Advertiser: Asbestos Mines Limited

What was believed to be the first through shipment of asbestos from Canada to New York by water, left Quebec on May 20. A barge carrying 200 tons traveled via Lake Champlain direct to New York Harbor.

A short biography of Mr. George D. Crabbs, President of the Philip Carey Company, Cincinnati, Ohio, American Magnesia & Covering Company, Plymouth Meeting, Pennsylvania, and Quebec Asbestos Corporation, East Broughton, Quebec, appeared in this issue. Mr. Crabbs, aside from being one of the outstanding early leaders in the Asbestos Industry in the U.S., was an extremely public spirited citizen and a leader in civic and charitable causes in the city of Cincinnati.

It was reported that, according to the Automobile Trade Journal, a total of more than 7,623,551 automobiles were registered in the U.S. in 1919. Of these, 87.14% were passenger cars.

The total value of manufactures exported from the U.S. in 1919 was reported as $3,486,000,000.

American Asbestos Mining & Milling Company of Idaho Falls, Idaho, reported development was underway on deposits of Chrysotile asbestos in Lincoln County, Wyoming, just south of Yellowstone Park.

The Thermoid Rubber Company, Trenton, New Jersey, was erecting an addition to its plant for handling asbestos crudes and fibers and manufacturing asbestos-metallic cloth.

General Asbestos & Rubber Company, Charleston, South Caroline, was reported as offering $1,000,000 Sinking Fund Cumulative 8% preferred stock to increase working capital and decrease the Company's dependence on bank credit.

Purchase by Mikesell Brothers Company, Chicago, Illinois, of the asbestos textile plant of the Perfection Tire & Rubber Company, Wabash, Indiana, was announced. It was planned to expand the plant substantially.

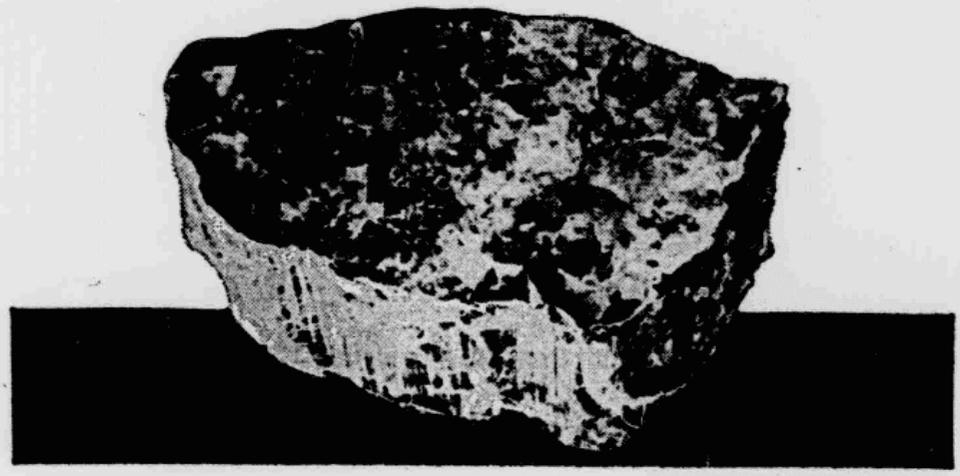
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BUILT ON A ROCK

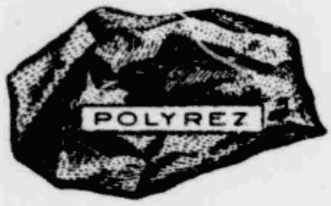
Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development;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

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

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WET...



APPLY

NEW PREPASTED SPEEDLAG

ASBESTOS INSULATING CLOTH INSTALLS IN LESS TIME, AT LOWER COST

Simpler installations, faster-cleanup, neater work are among the advantages of new R/M Speedlag.

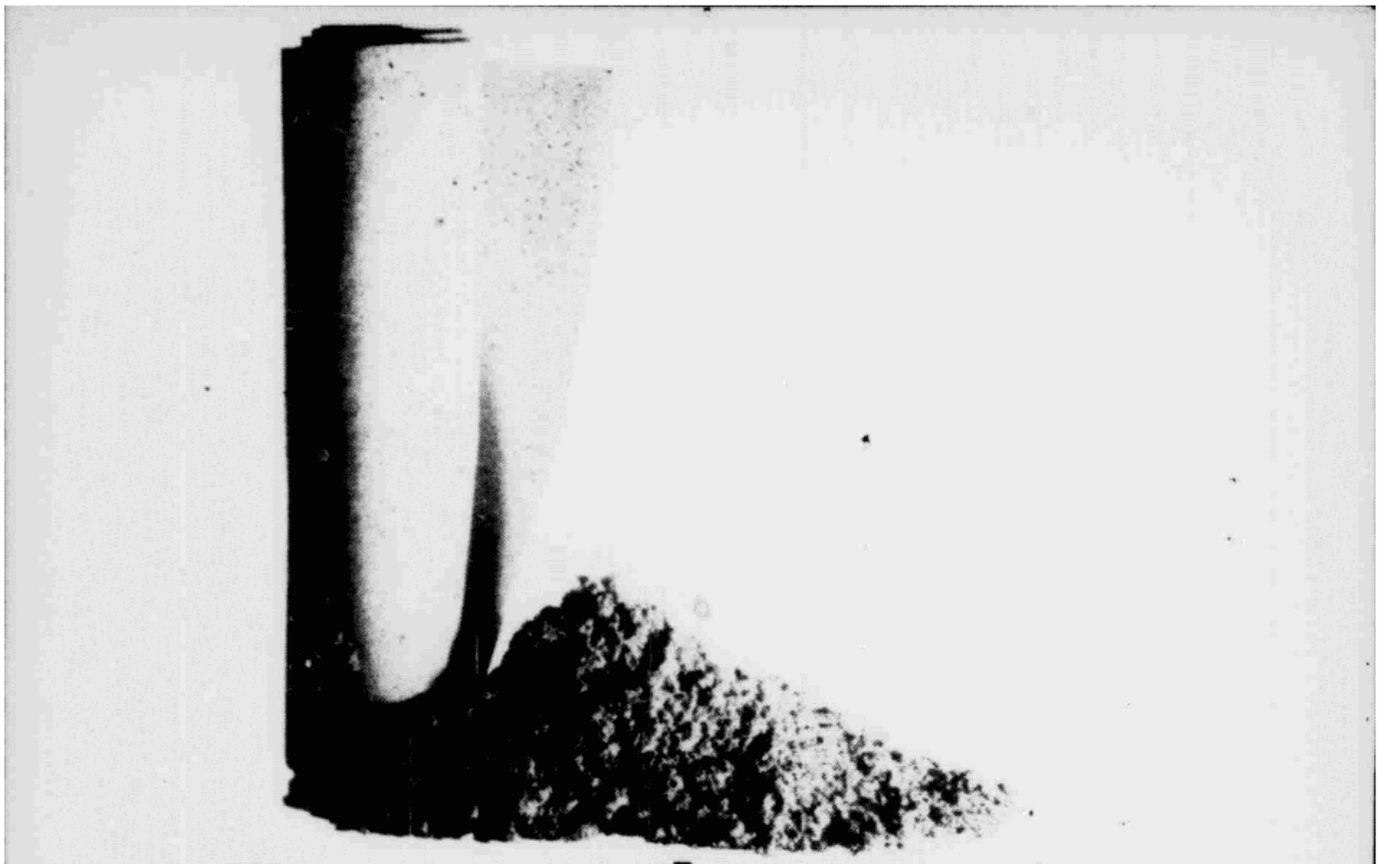
Speedlag is fitted and cut, then water-dipped to activate the integral adhesive, and placed in position—that's all. No coating of pipe and duct insulation with adhesive. And Speedlag's 100% inorganic adhesive serves as a filler, eliminating the need for sizing before painting. Speedlag is soft, pliable, lint-free.

Speedlag can be supplied in several weights and two ASTM Grades. Underwriters Grade base fabrics are manufactured to Fed. Spec. SS-C-466e, 7/2/64. AAA Grade base fabrics are available for insulation on merchant vessels covered by U. S. Coast Guard Specifications—Subpart 164.009.

Contact us for full details on new prepasted Speedlag.

Raybestos RM Manhattan

ASBESTOS TEXTILE DIVISION BRIDGEPORT, CONN. 06603



Two good starts...

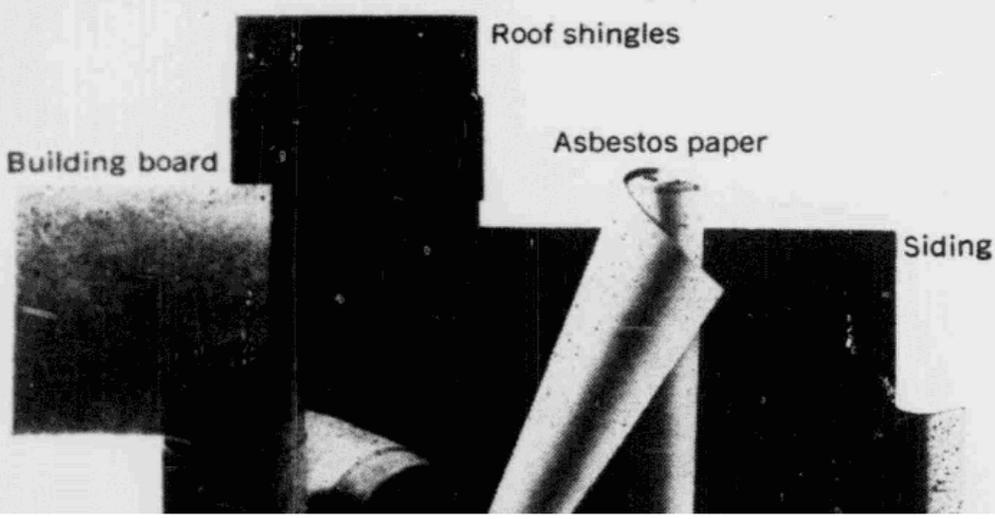
t with GAF asbestos fibers and DRYLON® hetic fiber felts and you'll end up way ad in end-product quality.

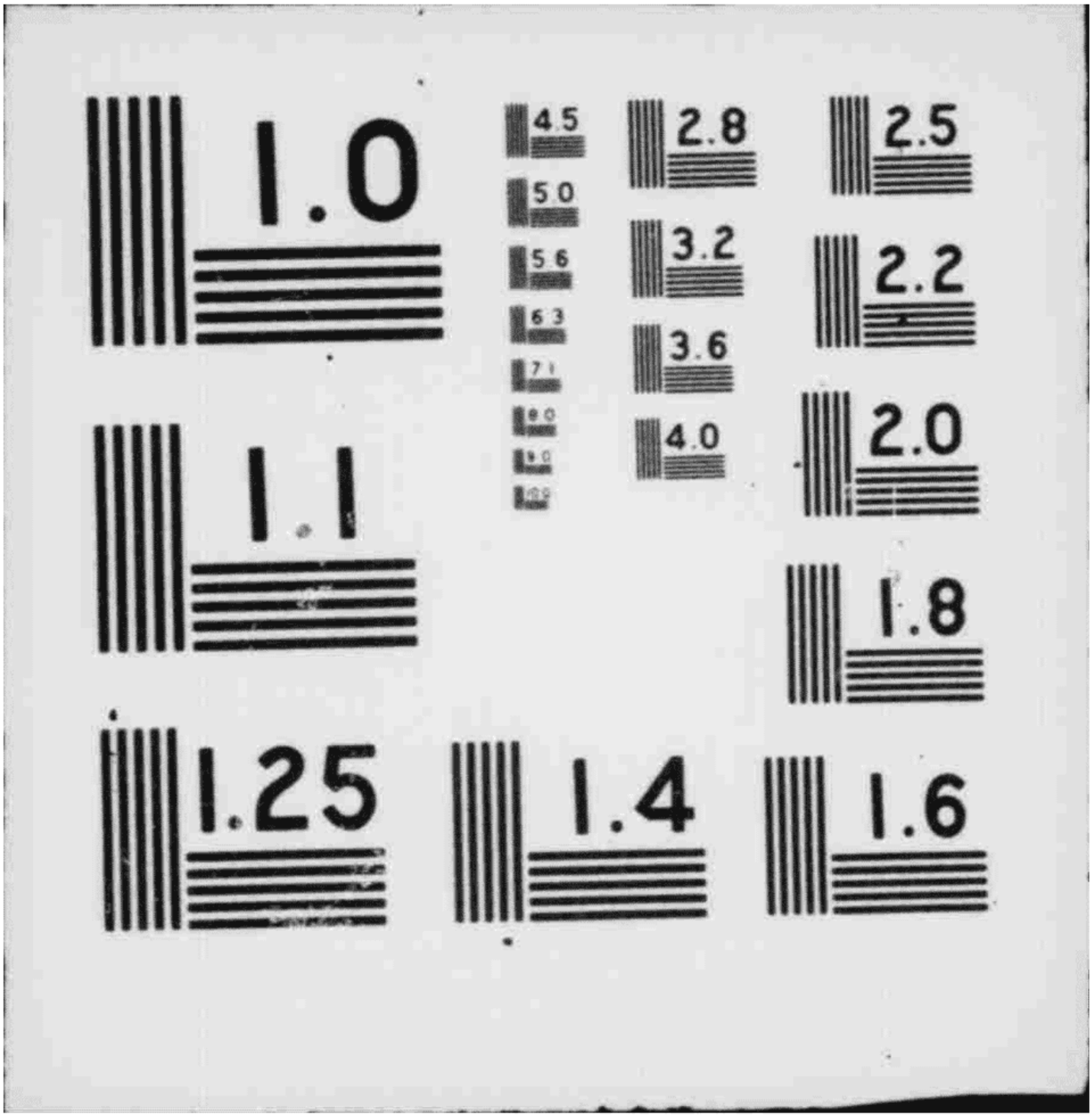
Our involvement with asbestos fiber ts at our own Vermont mines. We con- the quality from start to finish. And standards are high. Partly for selfish ons. Because much of the fiber ends n our own asbestos products.

And asbestos fiber is only part of our y. If you make asbestos-cement products, get another head start with Drylon synthetic felt. It drains better, stays clean and keeps its shape longer, and imparts a smoother, more uniform finish to your product.

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oward a lot of happy endings.





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100 MILLIMETERS

INSTRUCTIONS Resolution is expressed in terms of the lines per millimeter recorded by a particular film under specified conditions. Numerals in chart indicate the number of lines per millimeter in adjacent "T-shaped" groupings.

In microfilming, it is necessary to determine the reduction ratio and multiply the number of lines in the chart by this value to find the number of lines recorded by the film. As an aid in determining the reduction ratio, the line above is 100 millimeters in length. Measuring this line in the film image and dividing the length into 100 gives the reduction ratio. Example: the line is 20 mm. long in the film image, and 100/20 = 5.

Examine "T-shaped" line groupings in the film with microscope, and note the number adjacent to finest lines recorded sharply and distinctly. Multiply this number by the reduction factor to obtain resolving power in lines per millimeter. Example: 7.9 group of lines is clearly recorded while lines in the 10.0 group are not distinctly separated. Reduction ratio is 5, and 7.9 x 5 = 39.5 lines per millimeter recorded satisfactorily. 10.0 x 5 = 50 lines per millimeter which are not recorded satisfactorily. Under the particular conditions, maximum resolution is between 39.5 and 50 lines per millimeter.

Resolution, as measured on the film, is a test of the entire photographic system, including lens, exposure, processing, and other factors. These rarely utilize maximum resolution of the film. Vibrations during exposure, lack of critical focus, and exposures yielding very dense negatives are to be avoided.

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