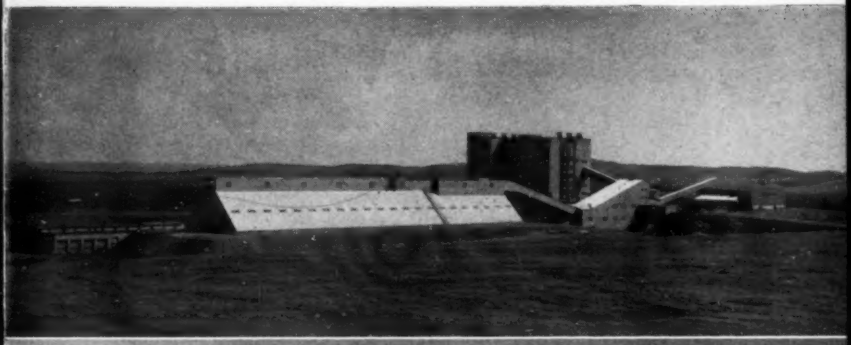
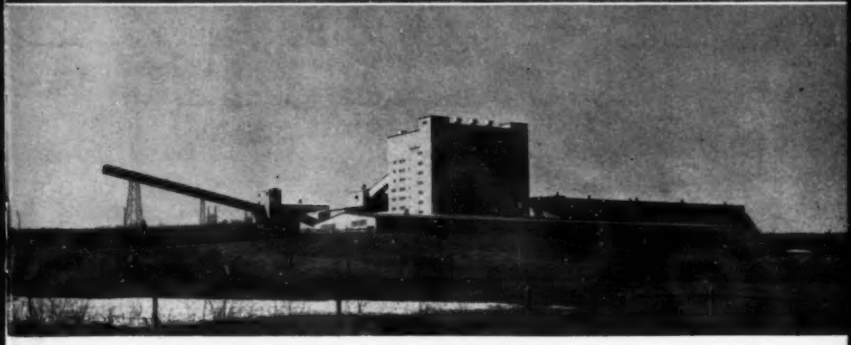
ASBESTOS



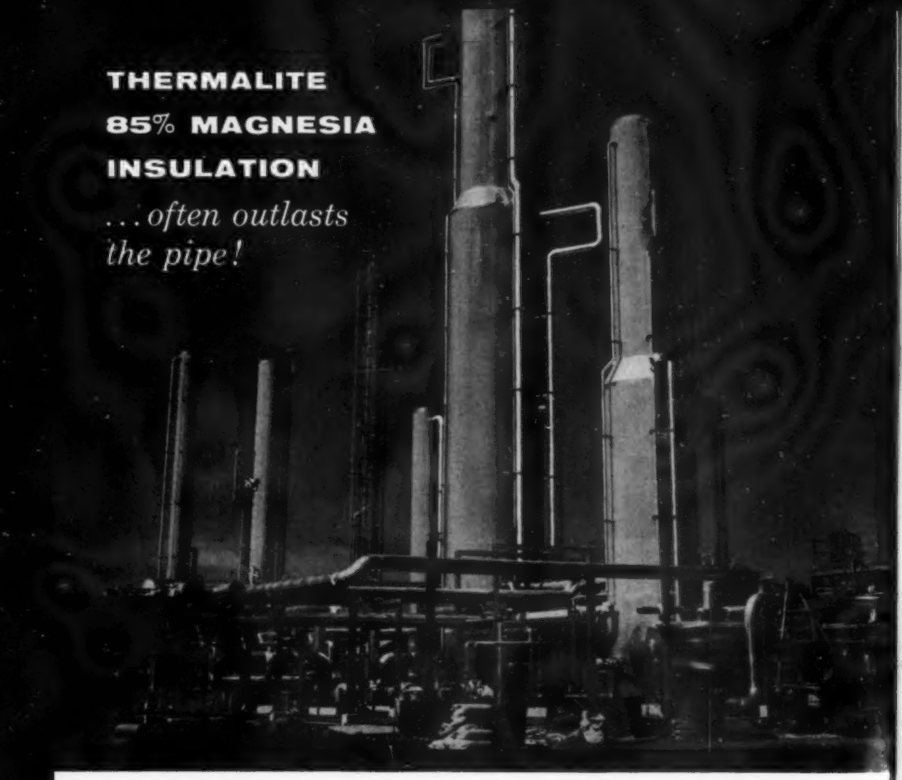


Views of Asbestos Mill, Carey-Canadian Mines Ltd., E. Broughton, Quebec.

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SAVE HEAT WITH EHRET INSULATIONS

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE, PENNSYLVANIA

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807 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
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Trust of C. J. STOVER, *Proprietor*
E. E. COX, *Editor*

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NATIONAL GYPSUM'S NEW MINE AND MILL IN OPERATION

National Gypsum Company climaxed five years of intensive exploration, development, design and construction with the completion of its multi-million dollar asbestos mine and mill in Thetford Mines, Quebec.

Melvin H. Baker, National Gypsum Board Chairman, announced the start of operation at the new facility which has a daily ore capacity of 3,000 tons and will produce 50,000 tons of asbestos fibre annually.

National Gypsum itself will consume part of the new mill's production in the manufacture of asbestos-cement siding and roofing shingles, corrugated panels and wallboard, at the Company's asbestos-cement plants at St. Louis, New Orleans and Millington, N. J.

A smaller percentage of the mill's asbestos fibre output will be used in the making of National Gypsum's joint cement which the Company produces at its paint plants at Montreal; Raritan, N. J.; Matteson, Ill.; Good Hope, La. and at its Rotan, Texas gypsum plant.

Joint cement is used in the application of gypsum wallboard which National Gypsum manufactures at its 14 gypsum board plants in the U. S.A.

The remainder of the new mill's production will be sold in the U. S. A. and abroad to manufacturers of such materials as floor tile, roofing cements, under coating, paper, textiles and plastics.

With the start of mining at the new development 75 miles south of Quebec City and 50 miles southeast of the St. Lawrence River, National Gypsum controls another of its basic raw materials. The Company owns vast deposits of gypsum and limestone and is a large producer of paper.

Mr. Baker described the ore body as "good quality", and estimated its life at more than 70 years. The Company expects to continue its present open pit mining operations for many years and then go to underground mining.

National Gypsum expects to benefit from the new

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K&M ASBESTOS TEXTILES

Insulate . . . protect from fire . . . are practically indestructible!

As ancient as writing . . . as modern as atomic energy, asbestos has unique qualities that have made it of constant use to man. And even today there is no substitute for the combination of characteristics it offers to industry.

Woven into cloth, tape or thread it makes superior electrical insulation . . . protects from heat and chemicals and retains its strength through a wide range of temperature and humidity conditions. And asbestos is immune to rot and corrosion, as well.

K&M Asbestos Textiles are made only from carefully selected grades of asbestos fibers to assure maximum uniformity and reliability. They're backed by more than half a century of imaginative research and development experience. Investigate K&M Asbestos Textiles for any insulating problem you may have. Write or call us any time.

KEASBEY & MATTISON COMPANY • AMBLER • PENNA. K&M

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operation in the form of savings within the Company as a result of producing its own asbestos rather than buying it in the market and from earnings on outside sales.

The National Gypsum management decided to mine its own asbestos fibre at the time the Company purchased its three asbestos-cement plants in 1953.

That decision touched off an intensive search for a suitable ore body by National Gypsum geologists and mining engineers. Prospecting centered in Quebec's eastern townships.

On March, 1955, after magnetometer readings disclosed evidence of a possibly rich ore body, core drillings began 5 miles from Thetford Mines. Analysis of the cores verified the preliminary evidence and the 600-acre tract was purchased the following August. Development work started immediately.

During the next 18 months, more than 1,000,000 cubic yards of dirt and clay were removed from 33 acres to expose the ore body. The overburden varied from 6 to 60 feet in depth.

A network of roads was built, a small river was relocated and railroad spurs laid; thousands of tons of steel, cement, sand, gravel, machinery and equipment were hauled to the isolated site.

The construction men battled heavy rains, and hip-deep snow as they fought to keep development and construction moving on schedule. Company officials said the new development was completed "on schedule and in record time."

The largest structure erected on the site is the five-story mill building. Other structures built include the machine shop and garage, primary crusher building, secondary crusher and dryer building and a two-story office building. A network of conveyor belts was erected. The conveyors criss-cross the development and are used to transport the ore to the various processings points.

Corrugated asbestos-cement panels—one of National Gypsum's finished products—were used to enclose the buildings where the raw material is processed.

Essentially, the operation consists of blasting,

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HARDWARE PRODUCTS CO., 3 Park Place, NEW YORK 7, N. Y.

GREAT BRITAIN ...A. A. BRAZIER & CO. (Asbestos) Ltd., "Avenue Lodge," Bounds Green Road, LONDON, N 22

JAPAN .....Iwai & Company, Ltd. C. P. O. Box 226 TOKYO

BELGIUM .....JOS IDE & FILS, 23, rue Mareyde, BRUSSELS (Woluwe St. Pierre)

GERMANY .....ERNST WERNER, Import von Rohasbest, Katharinenstrasse 30, "Edmundhaus," HAMBURG 11,

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quarrying, crushing, drying, dry rock storage, milling, pressure packing, fibre storage and rail loading.

The first step in the new National Gypsum operation is the quarrying of the asbestos-bearing rock. After drilling and blasting, the ore is transported to the primary crushing plant by diesel trucks where it is reduced in size by a huge jaw crusher. A further reduction in size occurs in the secondary crusher. An average of 7-8 pounds of fibre is obtained from each 100 pounds of rock.

Asbestos-bearing rock, as it comes from the mine, is normally wet and before the separation of the asbestos from the mother rock takes place the material is thoroughly dried in horizontal rotary dryers. The dried ore is stored in the dry rock storage bin.

Ore from the storage bin is brought to the mill as required, crushed and passed over screens and some of the free fibre is extracted. The remaining material is passed over more vibrating screens to separate the finer material. The ore then is given another crushing to free additional asbestos fibre from the rock. The resultant mixture of rock fragments and asbestos fibre is then passed over a bank of screens where the separating process is continued.

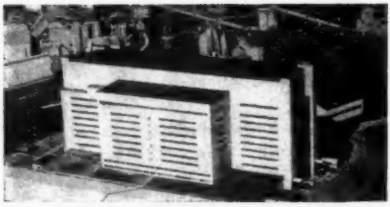
The smaller sizes of rock containing the shorter asbestos fibres pass through the screen openings and are carried away for further treatment. The coarser rock fragments and the longer asbestos fibre remain on the screen and the shaking action of the screen brings the fibre to the surface.

As the free asbestos fibre nears the end of the shaking screen it is lifted off by the air suction and aspirated through large ducts to collectors. The material remaining on the screen, which consists mainly of unfreed asbestos in rock fragments, is carried off for further processing in fiberizers which release the rest of the fibre.

After repeating the screening and aspirating process on additional banks of screens the remaining rock and dust are discarded to tailings piles.

The asbestos fibres then are cleaned and separated into standard commercial grades, and pressure-packed

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Modern equipment in the world's largest asbestos mill



and 600 skilled workers

...make J-M Asbestos Fibre the dependable ingredient in the batch

Adjoining the world's largest asbestos mine at Asbestos, Quebec is Johns-Manville's new asbestos mill. Here the highly skilled asbestos workers use the latest equipment to blend ingredients.

This huge mill with its modern high-speed equipment also provides a unified control of production to assure uniformity, correct grading and maintenance of quality standards.

To learn why Johns-Manville is best equipped to serve your asbestos fibre needs, write Asbestos Fibre Division, Canadian Johns-Manville Co. Ltd., Box 1500, Asbestos, P. Q., Canada: Tel.—100

JOHNS-MANVILLE
100 YEARS OF QUALITY PRODUCTS... 1858-1958

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in 100-pound bags for shipment.

The parent company operates the new asbestos plant —known as National Asbestos Mines, Ltd.—through its wholly owned Canadian subsidiary National Gypsum Canada, Ltd. Robert S. Coleman is manager of the asbestos operation.

The plant was designed and built under supervision of the Company's own Engineering and Production Staffs.

FIRE PROTECTION IN INDUSTRIAL BUILDINGS

"The contents of all industrial buildings are liable to outbreaks of fire . . . The overriding consideration is that such outbreaks shall not seriously interrupt production."

This point is made by Mr. Eric L. Bird, M.B.E., M.C., A.R.I.B.A., in a contributed article on "Structural Fire Protection in Industrial Buildings" in the latest information bulletin from the U.A.M. Group.

Measures to prevent and fight fires are the first essential. But if they prove to be inadequate, the fire behaviour of the framing and cladding may prove to be a deciding factor in the survival of production.

Mr. Bird — an independent expert on fire protection — suggests two methods by which collapse of steel frameworks can be delayed or even prevented: protection of the steelwork, and the provision of automatic ventilators which will discharge heat and smoke. It is always desirable to protect stanchions, but whether the expense of protecting roof steelwork is incurred should depend on the fire hazards and the fire load of the occupancy.

On roof cladding, Mr. Bird emphasises that what matters is that the roof should not spread fire laterally. The first thing to avoid is a combustible underlining exposed beneath the roof because it may suffer from rapid surface spread of flame.

In a second article, the Technical Director of the Group discusses the applications of U.A.M. products in structural fire protection.

Copies of the bulletin are available from the U.A.M. Group Advisory Service, Tolpits, Watford, Herts, England.

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HAIR FELT

FOR

Low Temperature Insulation

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1000 Maple Avenue

Lansdale, Penna.

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"INORGANIC FIBRES"

*By C. Z. Carroll-Porczynski**

This book deals with all the modern inorganic fibres and several thousands of relatively new products made from them are listed in the appropriate chapters. Four very interesting chapters are devoted to recent developments in the asbestos industry.

Chapter 9—Asbestos. In this chapter dealing with asbestos, the classification properties, mining and milling form an introduction to the main subject—"Asbestos Textiles". The latters are discussed under the following headings: Asbestos fibres, felts, rovings, yarns, ropes, cards, tapes, packings and cloth.

Chapter 10—Asbestos in the Plastics Industry. The use of asbestos in the plastics industry is already extensive and the Author anticipates still further expansion in the coming years.

Chapter 11—Asbestos in the Electrical Industry. The properties of asbestos materials are listed and numerous examples of their applications are given. A special mention is being made of the use of asbestos in combination with other fibres.

Chapter 12—Other Industrial Applications of Asbestos. This chapter comprises following fields of asbestos applications; brake lining, asbestos cement, 85% Magnesia, gaskets and the use of asbestos in the shipbuilding industry.

Chapter 13—Recent Developments in the Asbestos Industry. The account of recent mining expansion and the new asbestos purification method cover initial pages of this chapter. This is followed by the description of new carding, spinning and asbestos-cement machines. The next 12 pages are solely devoted to the recent developments in the asbestos testing field. The following testing techniques are described in some details:

Sampling, Rotap test, Bauer-McNett testing machine, measuring the length of fibres, flexibility, torsional rigidity, strength, fibre fineness, determination of rock and spicules, buoyancy, filtration, oils absorption, color

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DESIGNED FOR YOUR NEEDS

Gold Bond Asbestos grades can be tailored to your specifications!

The complete facilities of the well-staffed Gold Bond Research Center are available to help you determine the grade and quality of asbestos that best suits your needs.

The modern Gold Bond® Asbestos mill at Thetford Mines, Quebec, maintains the quality you specify. Shipments are uniform with a minimum of fines content. Available loose-packed or pressure-packed, in jute or paper bags. Write National Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada (subsidiary of National Gypsum Company).

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test, determination of electrical properties, differential thermal analysis, X-ray and spectrograph tests, infrared spectra of asbestos, determination of variations and of " weak spots" in the yarn. A very valuable addition to this chapter is the review of recent patents concerning friction materials, asbestos cement, asbestos-vinyl floor tiles, asbestos papers, laminated materials, mouldings, bituminous compositions, filtration, electrical insulation, textiles, fibre recovery and several other uses.

Other chapters deal with Glass Textile Fibres; Glass Textiles; Glass Textiles in the Electrical Industry; Glass Reinforced Plastics; Glass Wool; Slag Wool; Rock Wools; Refractory Fibres; Inorganic Fibre Papers; Wire Weaving; Knitting, Twisting, Braiding; Metal Wools; Metallic and Metallized Yarns and Metallized Fabrics.

This book was recently published by the National Trade Press Ltd., London and The Academic Press, New York priced at £2.15s.Od.

In view of the fact that many of these new materials are entering the traditional field of asbestos applications or could be successfully combined with asbestos in the development of new products, it is felt that this book should find the place in every asbestos library.

* Manager, Asbestos Traders Limited, London

NEW K&M SHAKE SHINGLE LOOKS LIKE WOOD LASTS LIKE STONE

Keasbey & Mattison Company, Ambler, Pa., asbestos-cement, magnesia and asphalt products manufacturer, announces its new line of asbestos-cement shake siding shingles, available throughout the United States.

Made in a variety of modern, decorator colors, the siding shingle faithfully simulates the grain and texture of a hand-hewn wood shake. The new shingle is intended for new residential construction as well as application over existing siding on homes being upgraded by their owners.

Available in white, yellow, gray, green and coral, K & M's new asbestos-cement shake shingle will be backed up by an intensive promotion campaign.

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CANADIAN ASBESTOS



THE NICOLET ASBESTOS MINE
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*Suburb of New York City.

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CANADA'S ASBESTOS PRODUCTS 1956

The Asbestos Products Industry, 1956, a seven page folder issued recently by the Dominion Bureau of Statistics at Ottawa, gives various statistics concerning Canada's asbestos manufacturing industry. Briefly a few figures are of special interest; factory shipments by the manufacturers of asbestos goods in Canada in 1956 were valued at $34,229,784 as compared with $30,127,022 in 1955.

Divided as to products these figures will be of more than usual interest:

	1956		1955	
	Quantity	Selling At Works Value	Quantity	Selling At Works Value
Asbestos Brake Linings				
Molded Ft.		$ 3,635,338		$ 3,087,608
Other Ft.		323,540		557,290
Asbestos Pipe and Boiler Coverings		1,602,227		1,631,086
Asbestos Clutch Facings No.	1,244,078	944,117	1,319,478	856,275
Asbestos Gaskets		123,151		186,785
Asbestos Packings (All kinds)		855,974		810,661
All Other Products		26,745,437		22,997,317
		$34,229,784		$30,127,022

	1956	1955
Number of Plants	16	16
Average Number of Employees	2,249	2,075
Salaries and Wages	$ 8,527,505	$ 7,222,575
Cost of Fuel & Elec. at Plant	829,850	729,134
Cost of Materials at Plant	15,955,866	12,889,656
Gross Selling Value of Products	34,229,784	30,127,022

Of the 16 factories reporting in 1956, 5 were located in Quebec; 8 in Ontario; 1 in Nova Scotia and 2 in British Columbia.

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INTRODUCING
ANOTHER DRYCOR FIRST

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THE
DRYCOR PIONEER* FELT

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A NEEDLED FELT
FOR
ASBESTOS CEMENT PIPE
INDUSTRY

•

DRYCOR FELT CO.
Staffordville
Connecticut
U. S. A.

* *Trade mark applied for*

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Other tables, concerning imports, exports, materials used in the Asbestos Products Industry, etc., are included in the pamphlet which may be obtained from the Dominion Bureau of Statistics, Industry and Merchandise Division at Ottawa for 25c. Ask for "The Asbestos Products Industry — 1956".

THE COVER

The photograph on our cover is a view of the Asbestos Mill, Carey-Canadian Mines, Ltd. at E. Broughton, P.Q., Canada.

The asbestos deposit discovered by company geologists, E. A. Boadway and Dr. R. J. Merrill, at East Broughton represents one of the most important asbestos finds in history. Located 20 miles northeast of Thetford Mines and extending over 3 miles in length and up to 600 feet in width, the new Carey — Canadian deposit assures Carey customers ample supplies of quality asbestos fibre and shorts for the next century.

Mining operations at Carey — Canadian have started by open pit methods with the possibility of future underground operations.

The new Carey — Canadian 12 story mill will process 2,000 tons of ore daily. Design of the mill will permit additional milling capacity up to 4,000 tons to be installed in the existing mill building upon short notice.

Dry rock is stored in a 24,000 ton capacity bin to permit continuous operation in inclement weather and most important, blend ore from several sections of the open pit mine to meet requirements and customers specifications.

Fibre will be released from rock in vertical hammer mills, aspirated from standard shaking and gyrating screens, cleaned with standard graders and gyrating screens and graded with gyrating screens and sifters. Bulk density will be controlled with vertical fiberizers while grit content will be controlled with whizzer type separators or specific gravity separators.

Fibre and shorts can be packaged in loose jute bags; pressure packed jute bags; pressure packed paper bags; and loose valve type paper bags.

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ASBESTOS

MINERS SINCE 1878

ASBESTOS CORPORATION LIMITED

THETFORD MINES, QUEBEC

REPRESENTATIVES IN

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JAPAN—ASANO BUSSAN CO.
6 MARUNOUCHI 1 CHOME
CHIYODA-KU TOKYO

FRANCE—GEO. PARLY & CIE.
10 RUE DE LA PEPINIERE
PARIS

NORTH AMERICA

BALTIMORE—WALLACE & GALE CO.
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CHICAGO—THE STARKIE CO.
5461 W. DIVISION ST.

CLEVELAND—C. T. SCHUSTER CO.
3540 NORTON ROAD
CLEVELAND 11, OHIO

DETROIT—GERALD J. FAHEY
6432 CASS AVENUE
DETROIT 2, MICH.

SAN FRANCISCO—L. H. BUTCHER CO.
15TH & VERMONT STS.

NEW YORK — WHITTAKER, CLARK & DANIELS, INC.
260 WEST BROADWAY

MONTREAL — ALBION ASBESTOS PACKINGS LTD.
130 BATES ROAD

TORONTO — CANADIAN ASBESTOS ONTARIO LTD.
27 FRONT ST. EAST

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In addition, pressure packed material may be unit loaded on expendable paperboard pallets to permit fork lift trucks unloading of 87% of the freight car with resultant savings in manhours unloading time.

The quality control laboratory presently in operation is the most modern in the industry, assuring Carey customers constant quality and uniformity from car to car. Research laboratories will be maintained at both E. Broughton and Lockland, Ohio and the industry is invited to present their asbestos fibre and shorts usage problems for assistance without obligation.

DEUTSCHE ASBESTWERKE GEORGI & CO. CELEBRATES 75th ANNIVERSARY

In the year 1883, 75 years ago, Canada shipped the first raw asbestos to Germany and the Gummiwerke Metzeler & Co. erected the first spinning and weaving mill in Germany at Munich. In 1884 the company added millboard, asbestos packing and an asbestos rubber factory.

Because of the high freight rates from German ports to Munich, Metzeler & Co. moved its asbestos works to Berlin. In 1910 the firm of Metzeler Asbestwerke G. m. b. H. was formed with the partnership of H. C. Georgi. In 1921 Mr. Georgi took over all the shares of Metzeler Asbestwerke, G. m. b. H.

During 1927 the Berliner Asbestwerke W. Reinhold & Co. joined Metzeler Asbestwerke and formed the firm Deutsche Asbestwerke A. G. In 1935 the name of the company was changed to Deutsche Asbestwerke Georgi, Reinhold & Co.

By 1939 the company owned six plants and was the largest asbestos firm in Germany making asbestos products (yarn, millboard and packing) but during and after the war lost about 85% of its capacity.

Mr. Georgi, on June 28th, celebrated his 80th birthday. Much of his industrial experience was obtained dur ing his five years in the United States. He is the President of the company, still very active and erected a new spinning and weaving mill in the Berlin-Reinickendorf factory, which started production in 1956.

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Ruberoid Asbestos Research...

. . . is a round-the-clock operation at Hyde Park, Vermont. Quality-controlled through each processing step, you can depend on Ruberoid Asbestos for clean, easy-to-identify fibre with minimum moisture absorption. You can depend on Ruberoid Research for the finest in Asbestos Fibre. For samples write:

The **RUBEROID** Co.

ASBESTOS FIBRE DEPT.

500 Fifth Avenue • New York 36, N. Y.

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MARKET CONDITIONS

GENERAL BUSINESS

While general business remains slow in many lines, due partly to the usual summer lull, small but definite improvements in many areas of the economy are in evidence. Personal income continues to rise. Housing starts are at an increasing rate. Auto production has increased but here there is a feeling that the plants are simply getting ready for an earlier and longer than usual shut-down for model changeovers. All in all, it does appear that the recession has bottomed-out but it will be probably be late in the summer before marked improvements in general markets will be felt.

The critical situation in the Mid East is unsettling psychologically and could have widespread effects on economic as well as political conditions. As this is written it is difficult to evaluate the situation. It is to be hoped that a satisfactory solution will be speedily forthcoming.

ASBESTOS—RAW MATERIAL

Little change has occurred in recent months in the level of business or conditions surrounding the demand and supply for asbestos fibre.

Shipments are ranging from 18% to 20% below the previous year, 1957.

International demand has fallen at a greater rate than domestic. Stocks of all grades are in ample supply. Additional potential of production is coming in from two new mines, and some expansion in milling capacity.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. This market is very slow but the last half of the year is expected to be better than the first half.

Asbestos Paper. Sales at present are still below those of a year ago, but a slight improvement is anticipated during the last quarter. Production capacity well exceeds market requirements at this time. Orders for *Millboard* are much slower than they were during the previous months and there does not seems to be any reason

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ANNOUNCING

A NEW MECHANICAL PROCESS FOR EARLY SEPARATION OF FIBRE FROM ROCK WITHOUT ASPIRATION.



No damage to fibre length.

No blinding due to self cleaning.

Automatically separates fines.

High capacity separation at low operating cost.

THE NEW C. V. SMITH PATENTED SEPARATOR



A TYPICAL INSTALLATION IN A MODERN ASBESTOS MILL

ELIMINATES COSTLY ASPIRATION EQUIPMENT

SMALL FLOOR AREA REQUIRED FOR INSTALLATION

LOW H.P. REQUIREMENTS

EXCLUSIVE SALES REPRESENTATIVES

LYNN MACLEOD ENGINEERING SUPPLIES LTD.

THETFORD MINES, QUEBEC, CANADA

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why an increase in this type of business is to be expected. Production of *Asbestos Saturated Paper* is greater than the demand at the present time. It is believed that demand will pick up the next three months and then fall off during the last two months, because of weather conditions. Demand is not expected to equal production anytime this year.

Insulation. High Pressure. Orders for this type of material have improved slightly during the past month. Competition is very keen among contractors for those larger jobs which are available. There is a possibility that business will increase considerably for this type of insulation during the latter part of this year.

Insulation. Low Pressure. There is a slight increase in orders for this type of material and the prospects for the coming month appear bright.

Asbestos Cement Products. The market is picking up slowly with the seasonal upswing in construction.

At present, the *Asbestos Siding* market is strong, showing an increase over the same period last year. Glazed shingles reflect good demand.

The market for *Asbestos Cement Pipe* appears to be following a normal seasonal pattern following the effects of wet spring weather.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

IDCNA Third Annual Convention, September 17, 18 and 19, 1958, Emerald Beach Hotel, Nassau, Bahamas, B. W. I.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

Asbestos Magazine, 1958, August 1958
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Shield them with economical barriers of J-M ALUMINIZED Asbestos Cloth

Radiant heat is a major cause of discomfort and fatigue that reduces efficiency and causes accidents. Economical new J-M *Aluminized* Asbestos Cloth reflects 90% of all radiant heat . . . helps maintain high production and good safety practices.

This new J-M material retains a great degree of strength at temperatures up to 1400F—over long periods of time—and can be used for curtains, shields, blankets, hoods and covers to protect workers from flame as well as radiant heat.

For further data, write Johns-Manville, Box 14, New York 16, N. Y. Ask for Brochure TX-2A.



Portable Shields for emergency jobs can be made with J-M *Aluminized* Asbestos Cloth.

JOHNS-MANVILLE
100 YEARS OF QUALITY PRODUCTS...1858-1958

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DR. OLIVER BOWLES PASSES AWAY

Dr. Oliver Bowles, 81, an expert in the field of non-metallic minerals, died on August 1st of a heart ailment at his summer home near Hillsboro in Loudoun County, Va.

Until his retirement in 1947, Dr. Bowles had served as chief of the non-metal economics division of the Bureau of Mines. Since then he worked for the Government under special appointments.

A native of Ontario, Canada, Dr. Bowles was a graduate of the University of Toronto. He received his Ph. D. from George Washington University in 1922.

Before his Government service, he taught briefly at the University of Michigan and Minnesota. His career with the Bureau of Mines began in 1914 when he became its first quarry technologist. He was promoted to division chief in 1942.

In 1948, Dr. Bowles received the Distinguished Service Award of the Interior Department for his outstanding career as a specialist on non-metallic minerals. He was the author of numerous professional articles and authoritative texts, and during the war furnished other Government agencies valuable information on minerals.

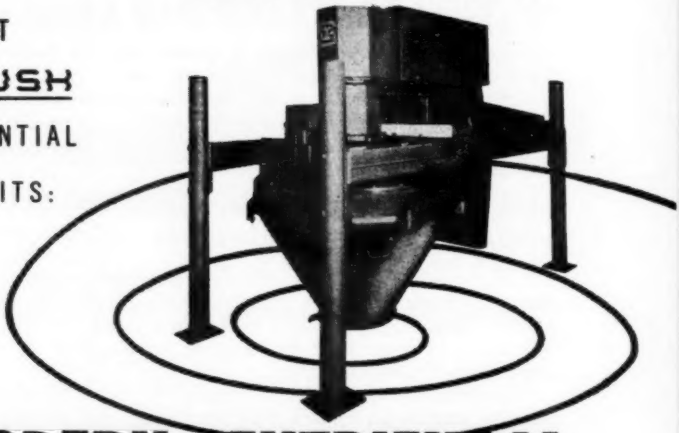
Dr. Bowles was a member of the American Institute of Mining, Metallurgical and Petroleum Engineers, the Society of Economic Geologists, the Society of Sigma Xi and the Cosmos Club. He was an honorary member of the British Institute of Quarrying and a charter member of the Mineralogical Society of America.

Survivors include his wife, Eva, with whom Dr. Bowles celebrated a golden wedding anniversary last April, and two sons, Edgar Oliver, a Washington consulting geologist, and William George Bowles, a chemical engineer with the Dupont Corporation at Baltimore. A brother, Herbert Edgar Bowles of Welland, Ontario, also survives.

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Series 40 Entoleter CentriMil® has capacity in excess of 20 tons per hour when releasing crudy, or fiberizing 6 tons per hour.

DON'T CRUSH POTENTIAL PROFITS:



MODERN CENTRIFUGAL IMPACT MILLING

- Reduces rock, releasing fiber intact
- Has increased yield as much as 15%
- Boosts both value and volume of output
- Requires less power per ton
- Constant product from start-up to shut-down

The rugged Entoleter® Centrifugal Impact Mill is specially engineered to break open rock along natural cleavage lines liberating crudy asbestos with minimum degradation of fiber. Its superiority over conventional methods has been production proven.

The same impact principle at higher velocities is used for fiberizing without degradation. Write for details. *Free* sample processing is available in the Entoleter Development Laboratory.

ENTOLETER DIVISION
SAFETY INDUSTRIES, INC.
P. O. BOX 904 — NEW HAVEN 4, CONN.

IN CANADA: LYNN MACLEOD ENGINEERING SUPPLIES, LTD., THETFORD MINES, P. Q., CANADA

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The National Safety Council has released the second edition of its "Handbook of Accident Prevention."

The 93-page handbook on occupational safety contains such new material as a description of radioactive hazards and ways to protect against them.

Further information on the "Handbook of Accident Prevention" and information on quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

NEW K&M SEWER PIPE FITTINGS SIMPLIFY SEWER INSTALLATIONS

Installation of asbestos-cement gravity sewer systems has been greatly simplified through the use of one-piece "TEE" and "WYE" socketed fittings recently developed and placed on the market by Keasbey & Mattison Company, Ambler, Pa.

Available in a variety of sizes, the new fittings materially hasten pipe laying by providing two socket ends into which the main sewer truck can be easly inserted using K & M's exclusive FLUIDTITE gaskets.

Moreover, by using K & M's asbestos-cement building sewer end caps, provision can be made for future connections in areas zoned for residential development. The socketed fittings are incorporated into the line during the construction, with the end caps sealing off the branches until needed.

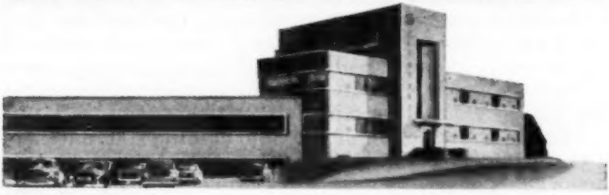
The new fittings are available in diameters of 6, 8, 10 and 12 inches with laterial branches of 4 and 6 inch diameters. Shipment of these items is made from Ambler, Pa.; St. Louis, Mo. and Santa Clara, Calif.

"TALKS ABOUT CANADA"

The above, in pamphlet form, is the first of a year-long series being presented by Johnson's Company, Ltd., Thetford Mines, P. Q., Canada, with the hope that its customers all over the world will enjoy learning a little more about both the country and the company to which they look for much of their asbestos fibre. The pamphlets will be mailed each month and will be followed by a booklet about Johnson's, its history and its operations.

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QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



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ASBESTOS CEMENT AT BRITAIN'S NEW AIRPORT

With the heavy increase in air traffic in recent years, it has become necessary to supplement the facilities provided by London Airport. A major development scheme has therefore been carried out at Gatwick Airport, south of London, and the opening ceremony was performed by Her Majesty Queen Elizabeth II on June 9th.

In the construction of the new buildings at Gatwick, interesting use has been made of asbestos cement in two somewhat different forms—as insulating tiles on flat roof areas and as a boldly designed side-cladding.

The main finger building is of particular interest. The lower level provides passengers with direct access to aircraft without the need for intermediate transport. The upper level is a flat roof in the form of a promenade for airport visitors.

A colorful new counter card and literature holder is being distributed by Keasbey & Mattison Company, Ambler, Pa., to its dealers, distributors and applicators for use as a point-of-sale merchandising aid in the sale of its new asphalt lock shingle. It is equipped with a cardboard pocket which carries envelope stuffers keyed to the theme, "You need more than just a 'roof' over your head". The literature describes in detail the advantages of the K & M Lock Shingle.

The display will appear on counters of K & M dealers, distributors and applicators as well as in those financing institutions which offer home improvement loans.

Complete Plants for making

ASBESTOS CEMENT PIPES

Socketed and Non-socketed
Precision Steel Mandrels
Plants for Making Sheets, Autoclaves for Steam Hardening

Plants designed, equipped and financed.

ASBESTOS CEMENT ENGINEERING CO.
Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P. O. Box 34.649

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Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing



FITTINGS

OF EVERY SHAPE AND DIMENSION



—TOUGH
—RESILIENT
—COMPACT
—WATERPROOF

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy

Cable: MINITA—MILANO **Phone: 26 67 27**

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BUILDING

Construction contracts in the United States in June totalled more than $3.8 billion, by far the highest figure ever reported for any single month, according to F. W. Dodge Corporation.

The June contracts were 12 per cent about the previous high record which had been established only a month earlier, in May, and they were 18 per cent higher than in June of last year.

The June figure was pushed upward by large increases in public utility, public works and residential contracts.

According to Dodge vice president and economist Dr. George Cline Smith, the gains were general through all types of construction, with only a few exceptions.

Non-residential building contracts in June amounted to $967,044,000, down 18 per cent from the same month last year. Within this category, sharp declines were registered for manufacturing buildings — down 67 per cent — and commercial buildings — down 27 per cent — while educational building contracts dropped 3 per cent below a year ago. Public buildings, religious buildings, hospitals, and recreational buildings all showed gains over the comparable year — earlier levels.

The cumulative total of contracts for future construction in the first six months of 1958 amounted to $16,788,625,000, down one per cent from the comparable 1957 period. The cumulative total of contracts by the major construction categories showed: residential at $6,504,707,000, up one per cent; heavy engineering at $4,776,056,000, up 6 per cent; and non-residential at $5,507,862,000, down 8 per cent.

"ASBESTOS" recently received from Asbestcement-Industrie "ASBESTONA" N.V., Amersfoort, Holland, reports of fire test on its Nobrand Fire Sheet.

Interested readers may borrow a copy from "ASBESTOS".

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proved *by performance!*

HUYCK NEEDLED FELTS

help asbestos cement manufacturers

ENGINEERED TO YOUR REQUIREMENTS

★ get quicker starts
★ increase production
★ improve product quality
★ lower felt cost

. . . making optimum use of synthetic fibers.

For the complete story — talk to your **Man-From-Huyck** or write us today.

NEW HUYCK FELTS

KENWOOD TEXTILE PRODUCTS

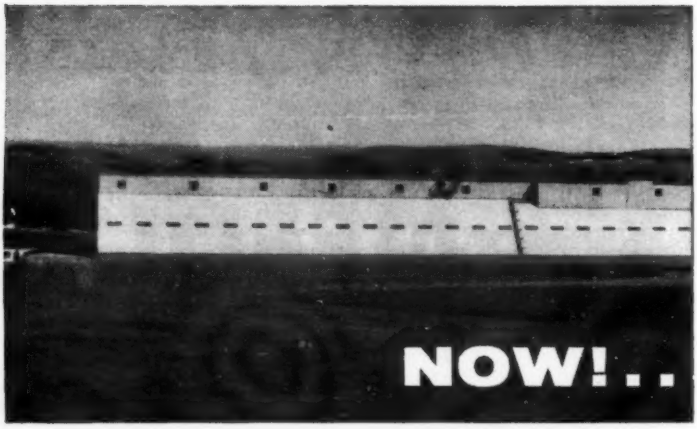
★ INDUSTRIAL FABRICS

FIRST IN QUALITY • FIRST IN SERVICE SINCE 1870

F. C. Huyck & Sons,
Rensselaer, N. Y.; Aliceville, Ala.; Peterborough, N. H.

In Canada: Kenwood Mills Ltd.,
Arnprior, Ontario

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NEW ASBESTOS MILL....

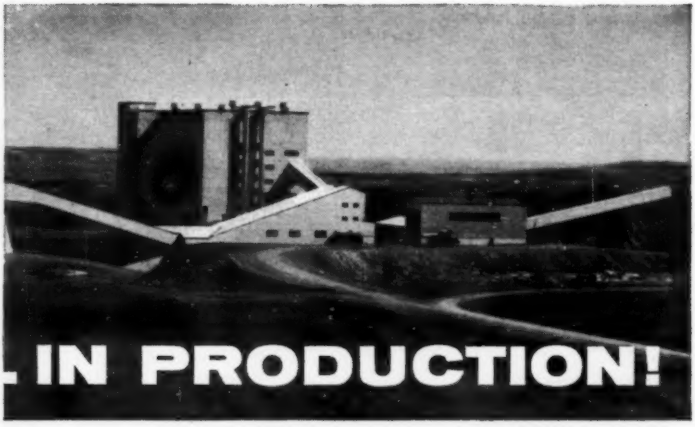
DEPENDABLE SOURCE — Carey-Canadian Mines, Ltd., new asbestos mine represents one of the most important asbestos discoveries in history. Carey customers are assured ample supplies of quality asbestos fibres and shorts for the next century.

MODERN MILLING — The new Carey-Canadian 12 story mill will process 2,000 tons of ore daily. Design of the new mill will permit additional milling capacity up to 4,000 tons to be installed in the existing mill building upon short notice.

Dry rock is stored in a 24,000 ton capacity bin to permit continuous operation in inclement weather and to blend ore from several sections of the open pit mine to meet customers specifications.

Fibre is released from rock in vertical hammer mills, aspirated from shaking and gyrating screens, cleaned with graders and gyrating screens, and graded with gyrating screens and sifters.

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IN PRODUCTION!

CAREY-CANADIAN MINES, LTD.

Bulk density is controlled with vertical fiberizer. Grit content is controlled with whizzer type or specific gravity separators.

QUALITY CONTROL—The quality control laboratory is the most modern in the industry, assuring Carey customers consistent quality and uniformity from car to car.

FIBRE TO MEET YOUR REQUIREMENTS
The new mill provides flexibility within grades necessary to the many diversified manufacturers of asbestos products. Variations of standard grades are available for testing under your own manufacturing conditions. Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting the Asbestos Fibre Division, The Philip Carey Manufacturing Company, Lockland, Cincinnati 15, Ohio, or The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P. Q.

Carey®

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AUTOMOBILE SALES

	May 1958
Passenger Cars	352,076
Motor Trucks	75,283
Motor Coaches	241
	427,600

In May 1957, a total of 641, 436 motor vehicles were sold. In the five months of 1958 the total was 2,283,889.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

Standardization, A Must for the Space Age, will be the theme of the Seventh Annual Meeting of the Standards Engineers Society to be held at the Benjamin Franklin Hotel, Philadelphia, Pa., on September 22-24, 1958.

Norman L. Mochel, Past President, American Society for Testing Materials and Manager, Metallurgical Engineering, Westinghouse Electric Corp., Philadelphia, will highlight the three-day program as speaker at the annual banquet on Tuesday night, September 23.

The Standards Engineers Society was organized in 1947 to further standardization as a means of enhancing general welfare and to promote knowledge of the use of approved standards issued by regularly constituted standardizing bodies and to maintain a high professional standing among standards engineers.

The 46th Annual National Safety Congress and Exposition will be held October 20-24 in Chicago. Sessions on industrial safety scheduled for the Conrad Hilton, Congress, Morrison, LaSalle hotels; traffic safety, Congress; commercial vehicle and transit safety, LaSalle; farm safety, Hamilton; school and college safety, Morrison, and home safety, Conrad Hilton. Further information may be obtained from R. L. Forney, Secretary, National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

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A natural fire barrier as workable as wood

A unique insulation board, workable as wood, Asbestolux combines more inherent advantages than any similar material. Long-fibered Amosite asbestos and a selected grade of silica with special properties are bonded under heat and pressure. Light and strong, Asbestolux is incombustible, and stable.

Write for Bulletin J-850.



ASBESTOLUX

FIREPROOF INSULATION BOARD

NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ontario

CAPE

Subsidiaries of The Cape Asbestos Company, Ltd., London

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PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for May 1958 (Quebec)	66,917 tons
Other Provinces	3,966
	70,883

Total production for May 1957 was 100,562 tons.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for March 1958	10,660.52
Valued at	£740,854
Production for March 1957	9,664.65
Valued at	£688,746

Union of South Africa

(Quarterly Information Report — Dept. of Mines)

Tons 2000 lbs.

	4th Quarter (Oct., Nov. and Dec. 1957)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	13,791	4,353	£ 87,388	13,927	£ 645,418
Anthophyllite	.....	.....	.....	.....	.....
Chrysotile	6,619	1,603	42,324	5,314	335,738
Cape Blue	18,053	2,381	131,965	16,907	1,307,027
Transvaal Blue	4,012	84	5,684	3,268	235,449
Tremolite	91	95	1,633	.....	.....
	42,566	8,516	£268,994	39,416	£2,523,632

	Year 1957			Year 1957	
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	56,798	4,414	£ 89,081	52,163	£2,445,331
Anthophyllite	.....	.....	.....	.....	.....
Chrysotile	25,646	4,192	144,269	19,155	1,191,426
Cape Blue	59,549	3,376	205,347	57,053	4,418,413
Transvaal	15,303	274	18,537	14,428	1,028,412
Tremolite	178	165	2,807	.....	.....
	157,474	12,270	£460,041	142,799	£10,083,582

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MOUNTBRIDGE EXPORTERS

(Pty) Ltd.

Chrysotiles

Crocidolites

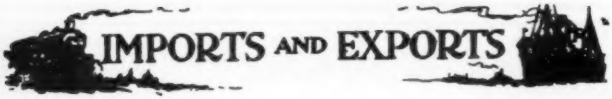
Amosite

STOLTZBURG MINE

BARBERTON MINE

Transreef House—66 Marshall Street
P. O. Box 4421
Johannesburg — Union of South Africa

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Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	Year 1957 Tons (2240 lbs.)
From: Canada	559,062
Rhodesia (Ny)	10,461
Union of S. Africa	31,579
Australia	5,886
Yugoslavia	1,714
Italy	455
United Kingdom	294
Bolivia	25
Mozambique	18
So. B. Africa	47
Venezuela	17
Algeria	6
Br. E. Africa	1
Portugal	9
W. Germany	8
	609,582
Valued at	$60,104,956

By Grades:

Crude No. 1, Chrysotile, Canada	39
Crude No. 1, Chrysotile, Venezuela	5
Crude No. 1, Chrysotile, W. Germany	3
Crude No. 1, Chrysotile, Rhodesia (Ny)	595
Crude No. 2, Chrysotile, Canada	145
Crude No. 2, Chrysotile, Rhodesia (Ny)	50
Crude, Other, Chrysotile, Canada	343
Crude, Other, Chrysotile, Venezuela	10
Crude, Other, Chrysotile, Portugal	9
Crude, Other, Chrysotile, Italy	443
Crude, Other, Chrysotile, Yugoslavia	1,714
Crude, Other, Chrysotile, U. of S. Africa	2,414
Crude, Other, Chrysotile, Rhodesia (Ny)	9,251
Crude, Blue, Bolivia	25
Crude, Blue, Australia	5,886
Crude, Blue, U. of S. Africa	15,865
Crude, Blue, So. B. Africa	45
Crude, Amosite, U. of S. Africa	12,676

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Textile Fibres, Chrysotile, Canada	18,948
Textile Fibres, Chrysotile, Venezuela	2
Textile Fibres, Chrysotile, U. Kingdom	61
Textile Fibres, Chrysotile, Italy	8
Textile Fibres, Chrysotile, U. of S. Africa	244
Textile Fibres, Chrysotile, Rhodesia (Ny)	307
Textile Fibres, Chrysotile, So. B. Africa	2
Shingle Fibres, Chrysotile, Canada	60,565
Shingle Fibres, Chrysotile, U. of S. Africa	36
Shingle Fibres, Chrysotile, Rhodesia (Ny)	78
Paper Fibres, Chrysotile, Canada	42,366
Other Fibres, Chrysotile, Canada	436,656
Other Fibres, Chrysotile, U. Kingdom	233
Other Fibres, Chrysotile, W. Germany	5
Other Fibres, Chrysotile, Italy	4
Other Fibres, Chrysotile, Algeria	6
Other Fibres, Chrysotile, Br. E. Africa	1
Other Fibres, Chrysotile, Mozambique	18
Other Fibres, Chrysotile, U. of S. Africa	344
Other Fibres, Chrysotile, Rhodesia (Ny)	180
	609,582

Manufactured Asbestos Goods:

	Year 1956 Quantity (lbs.)	Value
Asbestos Yarn		
Canada	14,624	$ 28,181
United Kingdom	475,131	347,921
Belgium	2,658	2,899
France	2,253	1,993
Italy	6,680	5,999
Asbestos Packing & Lining		
Canada	1,593	3,594
United Kingdom	111,767	48,683
France	188	563
W. Germany	51,576	12,568
Italy	1,049	1,115
Israel	116,131	55,141
Asbestos Shingles (Impreg.)		
Canada	436,636	40,085
Mexico	60,597	5,281
Belgium	88,849	5,829
Asbestos Shingles (Not Impreg.)		
Canada	12,982,038	1,178,219
Mexico	183,663	20,795
Cuba	7,200	401
United Kingdom	324,018	35,526
Belgium	1,428,161	59,709
France	81,667	5,260
W. Germany	1,519,832	77,835
Italy	25,849,742	1,138,225

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DURASORB FELTS

Making A Name in Asbestos-Cement

DURASORB is the name chosen by the Albany Felt Company for its needled felts for asbestos-cement machines.

DURASORB Felts are establishing for asbestos-cement shingles, siding and sheets the same outstanding reputation for performance long enjoyed by Albany Felts for paper and paperboard.

Write us or ask your Albany Felt Sales Engineer for further information.

AF

ALBANY FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

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Yugoslavia	441,394	18,896
Japan	297,445	12,175
Asbestos Manufactures — Others		
Canada	.....	4,213
United Kingdom	.....	21,467
Belgium	.....	1,584
W. Germany	.....	1,072
Italy	.....	92
Yugoslavia	.....	8
Br. Mala	.....	393
Japan	.....	2,600
	44,484,892	$3,138,322

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	April 1958 Tone (2240 lbs.	Value
To: Europe	113	$ 14,790
Canada	16	1,500
South America	27	2,464
United Kingdom	41	4,580
Other Countries	5	2,030
	202	$ 25,364

Manufactured Asbestos Goods:

	April 1958 Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	418,929	$ 68,677
Asbestos Textile & Yarn Lbs.	55,811	43,063
Asbestos Packings Lbs.	144,838	201,558
Asbestos Clutch Facings No.	96,823	91,407
Asb. Bk. Lng. (Mld. & S. Mld.) Lin. Ft.	87,643	37,890
Asbestos Brake Lining Other Lbs.	431,522	377,602
Asbestos Construction Materials Lbs.	3,321,658	370,138
Asbestos Manufactures—Others	.....	49,897
		$1,240,232

Imports of Asbestos by United Kingdom

Raw Materials
Tons 2,240 lbs.

	April 1958
From: Union of South Africa	1,637 tons
Basutoland, Bechuanaland & Swaziland	1,106
Rhodesia & Nyasaland	3,351
Canada	4,595
Other Commonwealth Countries	98
Foreign Countries	31
	10,818

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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	April 1958 Tons (2000 lbs.)	Value
Crude		
United States	24	$ 27,712
United Kingdom	....	....
South America	....	.....
Central America & Mexico	....	.....
European Countries	7	7,062
Other Countries	....	.....
	31	$ 34,774
Milled		
United States	8,424	$1,737,807
United Kingdom	3,367	719,118
South America	1,571	294,880
Central America & Mexico	1,109	201,385
European Countries	4,815	1,008,845
Other Countries	1,542	249,821
	20,828	$4,211,856
Shorts		
United States	32,519	$1,662,549
United Kingdom	3,008	152,230
South America	91	7,738
Central America & Mexico	276	17,088
European Countries	2,800	168,073
Other Countries	503	40,965
	39,197	$2,048,643
Grand Total—Unmanufactured Asbestos:	60,056	$6,295,273
Manufactured Asbestos Goods:		
Brake Lining		$ 25,673
Packing		249
Other Materials		21,308
		$ 47,230

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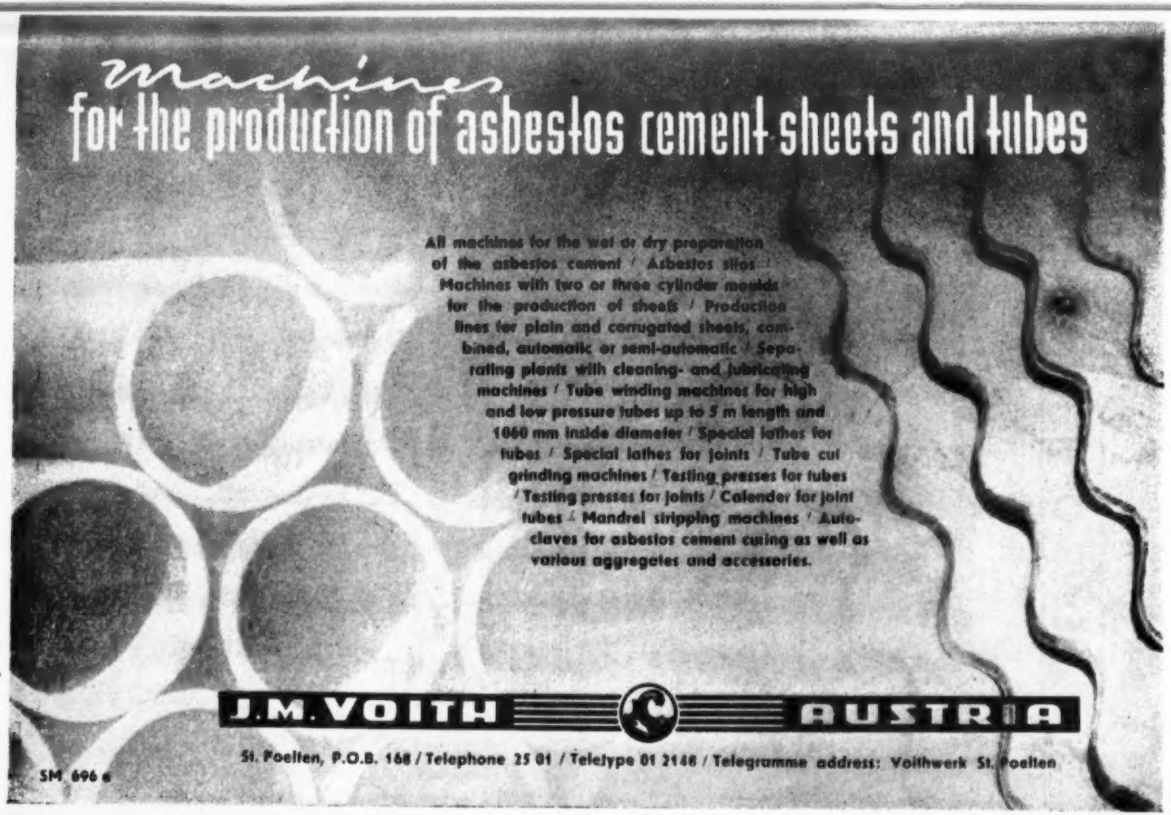
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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Thomas Vyvyan Baragwanath, Chairman, Cork Asbestos Mines (Pty) Ltd., Pietersburg, S. Africa, August 18.

R. J. Tobin, Chairman, Tilo Roofing Co., Stratford, Conn., August 18.

Carl W. Lemmerman, President, Homestead Corporation, Hartford, Conn., August 19.

Harry Coombs, Works Manager, Beldam Asbestos Co., Ltd., Hounslow, England, August 20.

C. H. Carlough, President, Carolina Asbestos Company, Davidson, N. C., August 20.

P. E. Coombs, Director & General Manager, Uxbridge Flint Brick Co., Uxbridge, England, August 21.

Matthew Balich, President, Matthew Balich Corporation, New York City, August 29.

George Robinson, Secretary, Johnson's Co., Thetford Mines, Canada, August 30.

A. W. Swartz, President, Linear Packing & Rubber Co., Philadelphia, Pa., August 31.

John P. Syme, Vice President, Johns-Manville Corporation, New York City, September 1.

Brayton H. Slade, Treasurer, Thermoid Company, Trenton, N. J., September 8.

Abbott Coburn, President, Globe Roofing Products Co., Inc., Whiting, Ind., September 9.

Pierre E. Donellon, Vice President, Charge of Construction, Tilo Roofing Co., Stratford, Conn., September 9.

H. William Bentley, Director, Australian Asbestos (Pty) Ltd., Merrickville, Australia, September 10.

K. R. MacDonald, Director of Purchases, The Ruberoid Co., New York City, September 10.

J. Gillmur Tyson, Jr., President, Consolidated Asbestos Corporation, Sellersville, Pa., September 14.

R. J. Berry, President, Standard Asbestos Mfg. Company, Cleveland, Ohio, September 15.

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

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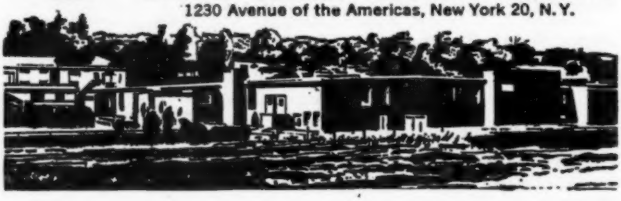
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A.S.T.M. — 61st ANNUAL MEETING

A varied technical program filled with information useful to industry and commerce covered a wide range of important authentic data on materials at the 61st Annual Meeting of the American Society for Testing Materials held at the Hotels Statler, Sheraton-Plaza, and Bradford at Boston, June 22-27, 1958. Highlighting the technical program were symposiums on Materials Research Frontiers, Radiation Effects on Materials (third of a series), Bulk Sampling, and Particle Size Measurement. The annual Marburg and Gillett lectures on "Man and Raw Materials" and "High Temperature Metals — Their Role in the Technological Future", respectively, emphasized both encouraging and discouraging aspects of our raw materials and minerals supply situation and compared the free countries' strategic position in this regard with that of the communist countries.

A recorded attendance of 2988 for the technical program again made the meeting the largest in the Society's history. In addition, there were 42 technical sessions and over 800 technical committee meetings during the five-day meeting. The vigorous work of the Society's numerous technical committees for many months was concluded with the presentation of their reports at the meeting.

Professor Kenneth B. Woods, Head, School of Civil Engineering, and Director, Joint Highway Research Project, Purdue University, was elected President of the Society for a one-year term.

A. Allan Bates, Vice-President of Research and Development, Portland Cement Association, was elected Vice-President for a two-year term.

Frank L. LaQue, Vice-President and Manager, Development and Research Div., The International Nickel Co., Inc., continues in the office of Vice-President to which he was elected last year.

Directors of the Society elected for three-year terms were: *Paul A. Archibald*, Chief Metallurgist at Standard Steel Works Div., of Baldwin-Lima-Hamilton Corp., Burnham, Pa.; *William L. Fink*, Chief, Physical Metallurgy Div., Alcoa Research Laboratories, New Kensington, Pa.; *Harry M. Hancock*, Manager, Product Control Dept., The Atlantic Refining Co., Philadelphia, Pa.; *Lawrence A. O'Leary*, Head, Chemical Engineering and Reearch Dept., W. P. Fuller & Co., South San Francisco, Calif.; and *Alfred C. Webber*, Senior Supervisor, Experimental Station, E. I. duPont de Nemours & Co., Inc., Wilmington, Del.

February 2-6, 1959, are the dates of Committee Week to be held at the Penn-Sheraton Hotel, Pittsburgh, Pa.

The Third Pacific Area National Meeting will be held at the Sheraton-Palace Hotel, San Francisco, Calif., October 11-16, 1959. An exhibit is planned in conjunction with this meeting.

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CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

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FILTRATION FIBRE

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Builders of

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JOHNS-MANVILLE CORPORATION
Changes in Personnel

A realignment of the Johns-Manville Building Products Division to meet "new and challenging problems" in the building industry, has been announced.

Heading up the Building Products Division, which operates 12 plants and 13 sales offices throughout the United States, as General Manager, is *W. R. Wilkinson*, a senior Vice President of Johns-Manville Corporation who was formerly Vice President for Sales. Mr. Wilkinson fills a vacancy created a short time ago by retirement of Harold S. Berlin because of ill health.

J. A. O'Brien, another senior Vice President, who was Vice President and General Manager of the J-M Industrial Products Divisions since 1955, has been appointed Vice President For Sales.

R. S. Hammond, a Vice President of the Johns-Manville Sales Corporation, has been appointed General Sales Manager of a new Industrial Building Products Sales Department.

E. K. Clark, a Vice President of the Johns-Manville Sales Corporation, has been appointed General Sales Manager of a new Dealer Building Products Sales Department.

G. H. Martens, Jr. has been appointed Assistant General Sales Manager of the Industrial Building Products Sales Department and elected a Vice President of the Johns-Manville Sales Corporation.

E. M. Fuller has been appointed Assistant to the General Sales Manager in the Industrial Building Products Sales Department and elected a Vice President of the Johns-Manville Sales Corporation.

F. E. Dutcher has been appointed Assistant General Sales Manager of the Dealer Building Products Sales Department and elected a Vice President of the Johns-Manville Sales Corporation

UNITED STATES RUBBER CO.
New Appointments

Leslie G. Wrigley has been appointed to the new position of sales manager of automotive sales for the textile division of United States Rubber Co. Mr. Wrigley started with U. S. Rubber in 1940 as a clerk in the tire sales department in Detroit. He worked his way up to become district sales manager of tire auto sales in 1951 and account manager of manufacturers sales in January 1958.

At the same time, *Benjamin E. Ferguson* has been appointed to the new post of product development manager of automotive sales for the textile division. Mr. Ferguson's employment with U. S. Rubber began in 1939 at Stark Mills in Hogansville, Ga. After serving in the Navy he returned to Stark Mills where he held various technical positions until his transfer to the textile division's central laboratory in Winnsboro, S. C. in 1949. He was promoted to the New York office in 1955.

Both Mr. Wrigley and Mr. Ferguson will be located in U. S. Rubber's office in the New Center Building in Detroit.

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

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& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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MINERAL MARKET REPORT MMS NO. 2777
(From U. S. Bureau of Mines)

World production of asbestos was somewhat higher in 1957 than in 1956. Production in Quebec increased 4 percent and in British Columbia 47 percent. Overall Canadian production was 5 percent higher than in 1956.

Production in the United States reversed a 3-year decline by advancing slightly — only 3 percent over 1956, according to reports by producers to the Bureau of Mines, United States Department of the Interior. Actual figures for 1957 were 42,967 tons, compared with 41,626 tons in 1956. Domestic sources supplied 6 percent of the United States requirements of asbestos. Production in Vermont and Arizona increased 4 and 15 percent respectively. Most of the crudes numbers 1, 2 and 3 produced in Arizona was purchased by the General Service Administration. Imports of low-iron chrysotile from both Southern Rhodesia and British Columbia increased in 1957.

	1956		1957	
Domestic Asbestos:	Tons	Value	Tons	Value
Sold or used by Producers	41,312	$ 4,742,446	43,967	$ 4,917,548
Imports (Unmfrd.)	689,034	61,829,275	682,732	60,139,815
Exports (Unmfrd.)	2,950	374,964	2,893	349,602
Apparent Consumption	727,396	66,196,757	723,492	64,707,761

CYPRUS ASBESTOS MINES, LTD.
Annual Report

Adverse climatic conditions severely handicapped operations at the Amiandos asbestos mine on the Troodos mountains and it was not until late in May that full operation of the mills was possible. This is almost one month later than is normal; in addition early autumn rains curtailed operations with the result that 1957 will be recorded as one of the Company's shortest seasons. Production amounted to 7,469 tons of long grade and 5,949 tons of short grade fibres compared with 7,791 tons and 5,937 tons respectively in 1956.

Exports of fibres amounted to 11,886 tons valued at £717,711 compared with 12,504 tons valued at £678,617 during the previous year, the main importers being the United Kingdom, Denmark, Sweden, Ireland and Thailand while small quantities were shipped to Austria and Iraq.

The factory utilized 234 tons of asbestos in the manufacture of asbestos cement goods compared with 220 tons in 1956. The main items manufactured included 72,586 corrugated and 4,707 flat sheets, 13,505 pieces of roof ridges and 21,658 items of other products, such as launders and pipes. Local demand for asbestos-cement goods declined slightly during the year and sales realized £62,118 compared with £75,757 in 1956.

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View of Kuruman Main Mill

ASBESTOS FIBRES

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THE MAGNESIA-SILICA INSULATION MANUFACTURERS ASSOCIATION

The Engineering and Research Committee of The Magnesia-Silica Insulation Manufacturers Association has issued new industry data giving typical average values on physical and thermal properties of 85% Magnesia, Calcium Silicate and Diatomaceous Silica insulations. The new data is offered as a basis for engineering calculations on these insulating materials.

85% Magnesia insulation is recommended by the Association for operating temperatures to 600 F, Calcium Silicate to 1200 F, and Diatomaceous Silica of one type, to 1600 F with a second type of the latter product with temperature range up to 1900 F.

With an average density of 12 lb. per cubic foot, Calcium Silicate insulation has been determined as having a "k" factor ranging from 0.32 at 100 F mean temperature to 0.61 at 700 F mean. A new average density of 11 lb. per cubic foot has been determined for modern 85% Magnesia, in place of the former 12 lb. average, Diatomaceous Silica insulation, 1900 F type, has an average density of 24 lb. and "k" factor ranging from 0.69 at 400 F mean to 0.78 F mean. The 1600 F type Diatomaceous Silica has a conductivity of 0.64 at 400 F mean to 0.72 at 800 F mean temperature.

For further information write The Magnesia-Silica Insulation Manufacturers Association, 1317 F Street, N.W., Washington 4, D. C.

FIBREBOARD PAPER PRODUCTS CORP.
Appoints Project Manager

George W. Burgess has been appointed Project Manager, Manufacturing Division of Fibreboard Paper Products Corporation.

For the past several years Mr. Burgess has been vice president-manufacturing for Hawaiian Pineapple Co., headquartering first at Honolulu and then at San Jose, Calif. He started with the big packing firm in 1944 as a research engineer, and in 1945 he was placed in charge of all the manufacturing activities for the company's operations in the Hawaiian Islands.

JM HONORS INDUSTRIAL INSULATION CONTRACTORS

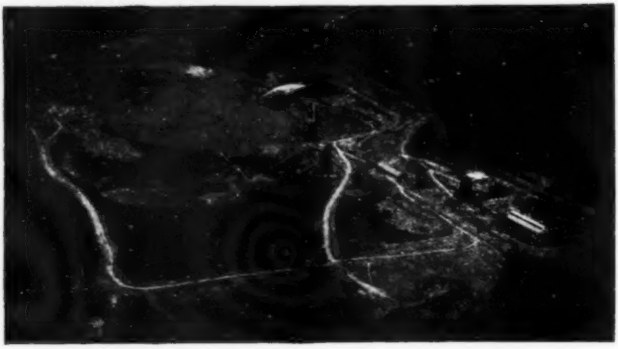
Two prominent West Coast firms were honored recently in separate Johns-Manville luncheon salutes to new members of the J-M Quarter Century Club for Industrial Insulations Contractors.

The E. J. Bartells Company of Seattle and the Western Asbestos Company of San Francisco were presented with plaques and silver lapel pins symbolic of their membership.

The E. J. Bartells Co., founded in 1923, has been closely associated with J-M for the past 29 years. This year marks the 50th anniversary of the founding of Western Asbestos Co. and the 100th anniversary of Johns-Manville. Western Asbestos has worked with J-M for the past 30 years.

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Coming in Mid-1958:



New Source of Quality Chrysotile

ASBESTOS

ASARCO and Lake Asbestos of Quebec, Ltd., are dredging and draining a 500-acre lake to convert it into one of the richest sources of high quality, longer fibre chrysotile asbestos in the world today.

This year ASARCO's new major open-pit asbestos mine and newly constructed, modern mill will begin to produce 100,000 tons of asbestos annually. ASARCO has no plans for fabricating asbestos products, so this entire supply will be at your disposal.

If you manufacture or use any of the hundreds of products containing asbestos, you'll want to get acquainted with this dependable new source of supply soon.

ASARCO **Lake Asbestos of Quebec, Ltd.**

A Subsidiary of

AMERICAN SMELTING AND REFINING COMPANY

120 Broadway • New York 5, N.Y.

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JOHNS-MANVILLE CORPORATION
Second Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the second quarter of 1958 were $6,111,000, compared with $5,660,000 for the corresponding period last year.

Sales for the second quarter of 1958 were $79,104,000, compared with $82,417,000 for the second quarter of 1957.

Earnings per share of common stock for the second quarter were 85 cents, compared with 79 cents for the same period last year.

CURRENT RANGE OF PRICE

As of August 10, 1958

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

No. 1 Crude (soft)	$1,500.00 to	$2,000.00
No. 2 Crude (soft)	1,000.00 to	1,350.00
No. 3 Crude (soft)	400.00 to	675.00
Filter Fibre (soft)	250.00 to	475.00
No. 1 Crude (semi-soft)	1,200.00 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi-soft)	400.00	

CANADA— Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency

Group No. 1 (Crude No. 1)	$1,475.00 to	$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to	1,200.00
Group No. 3 (Spinning Fibre)	370.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.....	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Fitlering	$ 370.00 to	$ 428.00
Group No. 4 (Shingle Fibre)	181.00 to	200.00
Group No. 5 (Paper Fibre)	120.00 to	152.00
Group No. 6 (Waste, Stucco or Plaster)		86.00
Group No. 7 (Refuse or Shorts)	41.00 to	75.00

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FRICTION MATERIALS STANDARDS INSTITUTE, INC.
Annual Meeting — Election of Officers

At the Annual Meeting of the Friction Materials Standards Institute, Inc., held on June 18, 1958, the following officers were elected for the year starting July 1st:

President — *William J. Vachout*, Molded Materials Division, Carlisle Corp.
Vice President — *George S. Lamson*, Thermoid Company
Treasurer — *Robert B. Williams*, The Russell Manufacturing Company
Secretary — *Miss Harriet G. Duschek*

Other members of the Board of Directors, serving with these officers are:

William H. Johnston — Atlas Asbestos Company
Frederick C. Weyburne — Marshall-Eclipse Division, Bendix Aviation Corporation.
Franklin A. Miller — Raybestos-Manhattan, Inc.
S. Arthur Smith — Silver Line Brake Lining Corporation
Richard A. Riley — World Bestos

CANADIAN JOHNS-MANVILLE
Recent Appointments

The Canadian Johns-Manville Company, Ltd. has announced the following appointments:

A. G. Sinclair, Assistant General Manager of the Canadian Products Division; *L. M. Adamson*, General Sales Manager, Industrial Products and Pipe Sales Department; and *F. A. H. Gallop*, General Sales Manager, Building Materials Sales Department.

Mr. Sinclair studied engineering at the University of Manitoba. Prior to his present appointment he was General Sales Manager of the Canadian Products Division.

Mr. Adamson received his engineering degree at the University of Manitoba. He had been Division Merchandise Manager for Industrial Products.

Mr. Gallop was educated in England and joined Canadian Johns-Manville in 1926. Previously, he was Division Merchandise Manager for Building Materials.

Messrs. Sinclair, Adamson and Gallop are also Vice-Presidents of Canadian Johns-Manville.

UNITED STATES RUBBER CO. APPOINTS MANAGER OF RESEARCH CENTER

Dr. Thomas L. Wilson has been appointed manager of the Research Center of United States Rubber Co. in Wayne, N. J.

Dr. Wilson replaces *Dr. Arthur E. Brooks*, who was recently appointed an assistant director of the research and development department. In his new assignment Dr. Wilson will manage the company's multi-million dollar Research Center opened last year in Wayne.

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ARMSTRONG CONTRACTING & SUPPLY CORP.
New Location

Armstrong Contracting and Supply Corporation announces the new location of its Boston sales office and warehouse facilities at 22 Woodmot St., Brighton, Boston 35, Mass. *Mr. John J. Roper* is district manager of the Boston office.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		July 1958		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	37⅜	39⅜	39⅜
Amer. Br. Shoe (Pfd)	100	....	....	....
Armst. Ck. (Com)	1	26⅜	28⅜	28¼
Armst. Ck. (Pfd)	np	86	89¾	86½
Asbestos Corp. (Com)	np	28⅛	29½	29¼
Carey (Com)	10	25½	28½	28½
Cassiar Asb. Corp.	np	$7.90	$8.20	$8.05
Celotex (Com)	1	30⅛	31¾	31¾
Celotex (Pfd)	20	18¼	19¾	18¼
Certainteed (Com)	1	9⅞	10¼	10⅛
Fibreboard Paper Prod. (Com)	np	28¾	32⅜	32½
Fibreboard Paper Prod. (Pfd)	100	99	111	107
Flintkote (Com)	5	42¼	44⅝	44⅜
Flintkote (Pfd)	np	92	92	92
Johns-Manville (Com)	5	38⅜	43⅜	43⅜
Natl. Gypsum (Com)	1	47½	51	50⅞
Natl. Gypsum (Pfd)	np	93⅜	96¾	95½
Ray-Man (Com)	1	48¾	50½	50
Ruberoid (Com)	1	34⅜	35¾	35½
Thermoid (Com)	1	10½	11	10⅝
Thermoid (Pfd)	50	46	46½	46
Union Asb. & Rub. (Com)	5	8½	9¾	8⅞
United Asb. (Com)	1	$6.25	$6.90	$6.80
U.S. Gypsum (Com)	4	78¼	86½	83½
U.S. Gypsum (Pfd)	100	170	171	170
U.S. Rubber (Com)	5	31⅞	37¼	37¼
U.S. Rubber (Pfd)	100	147¾	150	150

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RAW ASBESTOS DISTRIBUTORS

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PABCO INDUSTRIAL INSULATIONS DIVISION ENTERS CONTRACTING FIELD

"Pabco" Industrial Insulations Division of Fibreboard Paper Products Corporation has entered the industrial insulations contracting field throughout Southern California, as announced by *J. C. Voiles*, general manager of the Division.

The new service is designed to serve the needs of both heavy industrial and commercial accounts. Commercial accounts will be serviced by *Harry M. Voorhees*, who has recently joined the organization after many years' experience in estimating and supervising in this field. Industrial accounts at present will be handled by *R. E. Bounds*, staff engineer of the Division.

Mr. Voiles also announced that as general manager of the Division, he will assume direct supervision of the Contract Department. To allow him greater time to develop the new service for Southern California contracting customers, he has appointed *H. P. Hoopes*, manufacturing manager for the Division, to serve as division sales manager in addition to his current duties.

Headquarters for the new Contract Department will be at Fibreboard's offices, 4231 East Firestone Boulevard, South Gate, California.

THE RUBEROID CO.
Second Quarter Report

The Ruberoid Co. reported that net sales for the quarter of 1958 increased 9.7% over the same period in 1957, but sales for the first six months were slightly lower than in the first half of 1957.

Although the tonnage of Ruberoid products sold showed an increase in both the first and second quarters this year, net income for both periods was lower than in the comparable periods of 1957.

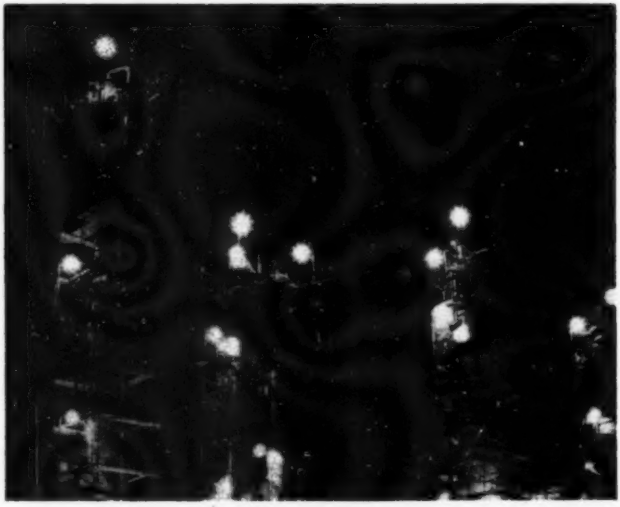
Net sales for the first six months totaled $36,400,418 compared with $37,233,071 for the first half of 1957. Net income was $1,224,647, or $.83 a share, compared with $1,903,600, or $1.29 a share. For the second quarter, net sales were $22,251,567 in 1958 and $20,288,263 a year earlier. Net income was $1,003,494, or $.68 a share, compared with $1,233,077 or $.84 a share.

FRANK R. ANDERSON PASSES AWAY

We regret to announce the recent death of *Mr. Frank R. Anderson*. He was well known throughout the Asbestos Industry, having started his Asbestos career in 1912 as General Manager of Sall Mountain Company's plant in Scranton, Pa. In 1916 he moved to the Chicago office where he remained as Vice President until his retirement in 1952 after 40 years in the Asbestos Industry

He will be greatly missed by his many friends in the Industry who kept in contact with him after his retirement.

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Drastic reduction of heat loss with
PABCO PRECISION-MOLDED CALTEMP
a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

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CAPE ASBESTOS AWARDED CONTRACT FOR NUCLEAR POWER STATION

Thermal insulation contract for the 275 megawatt Nuclear Power Station now being built by the A. E. I. — John Thompson Nuclear Energy Company at Berkeley in Gloucestershire has been awarded to The Cape Asbestos Company Ltd.

Cape Asbestos will carry out the entire insulation work at this station, involving the two 80 ft. high reactor vessels, 16 heat exchangers, CO 2 ducting and main steam pipes, in their own materials, "CAPOSITE" moulded amosite asbestos insulation and "ROCKSIL" rock wool insulation.

The "CAPOSITE" will be manufactured at the company's Barking and Hebden Bridge factories from amosite asbestos obtained from the company's mines in South Africa; "ROCKSIL" is manufactured at their Stirling Works from dolomite rock from their own quarries in Argyllshire.

JOHNS-MANVILLE CORPORATION

New Appointments

Clarence C. Simoni has been appointed General Manager of Johns-Manville's Packings and Friction Materials Division.

Mr. Simoni succeeds *C. B. Burnett*, who was elected Executive Vice President and a member of the Board of Directors last November and at the same time temporarily retained the post of General Manager of the Packings & Friction Materials Division.

The appointment of *Edward H. Wells* as Assistant General Manager of the Division was also announced.

Both Mr. Simoni and Mr. Wells are also vice presidents of Johns-Manville Sales Corporation.

NATIONAL GYPSUM CO.

Second Quarter Report

Chairman Melvin H. Baker reported that business "is definitely on the upswing" for National Gypsum Company with June sales almost one-million dollars ahead of 1957.

At a meeting of the building material firm's Board of Directors it was reported that June sales this year were $13,134,152 compared with $12,241,782 in 1957.

Second quarter net sales were $36,467,727 with earnings equal to 84c a share where as in the similar period last year net sales were $35,856,532 with earnings equal to 81c a share on 79,5155 fewer shares outstanding.

JOHN LANG PASSES AWAY

John Lang, general merchandise manager of The Ruberoid Co., died suddenly July 7, 1958, at his home. He was 61 years old.

A veteran of more than 37 years in the building materials business, Mr. Lang joined The Ruberoid Co. in 1939 as assistant sales manager of the New England District. He held many responsible positions with Ruberoid during his association of over 18 years and at the time of his death was General Merchandise Manager — Building Products Division.

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We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

B & A

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PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to the Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Asbestos Yarn and Method of Producing Friction Lining Therefrom, No. 2,841,516. Granted on July 1, 1958 to H. C. Morton (assignor to The Russell Manufacturing Co., Middletown, Conn. Method of making asbestos yarn for use in the manufacture of friction materials. A core yarn is first passed through a rubber resin bath to give it a tacky coating and then through a chamber containing short asbestos fibre suspended in air. The coating is partially dried and wrapped with a fine wire. The process is repeated to build up the yarn to the desired thickness, after which it is heated to dry the rubber-resin composition.

THE FLINTKOTE COMPANY
Second Quarter Report

Reflecting a sharp increase in demand for building material products and economies effected by the company, net income of The Flintkote Company for the second quarter of 1958 showed a pronounced improvement over that reported for the first quarter.

Net sales for the second quarter were $31,363,736, resulting in net income of $1,640,738, or 84 cents a share on 1,781,120 average common shares outstanding. For the second quarter of 1957, net sales totaled $30,697,827, while net income amounted to $1,859,615 or $1.02 per share on 1,683,195 common shares then outstanding.

For the six months ended June 30, sales aggregated $53,869,895, compared with $56,063,210 for the first half of 1957. Net income for the six months period totaled $1,489,303, versus $2,832,719. Per share earnings were 68 cents against $1.51 a year ago.

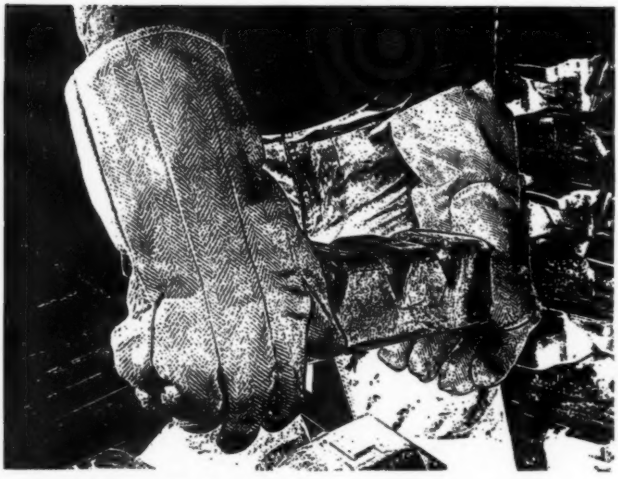
AMERICAN BRAKE SHOE CO.
Second Quarter Report

Second-quarter earnings of the American Brake Shoe Company were 41 per cent greater than those of the first quarter, despite an 8 per cent drop in shipments, the company announced. Earnings per common share were 92 cents, compared with 65 cents in the first quarter.

Shipments were $34,429,525, down by $2,914,342 from the first quarter.

Compared with the first half of the record year of 1957, shipments for the first six months of 1958 were down by 28 per cent, and earnings dropped by 53 per cent. Earnings were $1.56, compared with $3.37 for the corresponding period of 1957.

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LONGER WEAR • AMPLE HEAT PROTECTION • LESS WEIGHT

Your proof is here! Impartial tests on the famous Wyzenbeck wear-test machine show that 1.6 lb. R/M Silvabestos provides abrasion resistance up to 249% greater than that of ordinary 2.5 lb. asbestos cloth of similar weave. And after 1 hour in a 450°F furnace, Silvabestos retained 56.2% more tensile strength than ordinary asbestos cloth of the same weight.

Here is the combination of qualities that make the best safety garments: good insulation, light weight, flexibility and durability. You get them all in Silvabestos.

RAYBESTOS-MANHATTAN, INC.
ASBESTOS TEXTILE DIVISION, Manheim, Pa.

FACTORIES: Manheim, Pa.; Bridgeport, Conn.; Paramount, Calif.; No. Charleston, S.C.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

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SOUTHERN ASBESTOS — TEXTILES



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