ASBESTOS



APRIL 1952

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Ehret Magnesia Manufacturing Co.
VALLEY FORGE, PENNSYLVANIA

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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
608 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA, 7, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*

A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 33 APRIL 1952 Number 10

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - - - - $2.00 Per Year
Canada - $3.00 Per Year Foreign Countries - $3.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
(Payable in U. S. Funds)

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QUANDARY - QUANDARY SOLVED

Recently we wrote several of the Industry's leading executives asking if they would send us guest editorials. One or two complied with our request but most of them altho willing and gracious enough, told us that they could not think of a subject about which to write. And we have found ourselves on several occasions in the same dilemma.

Therefore, there have been very few editorials in the past few months.

We gave a lot of thought to the matter without much result until: suddenly it came to us we were "barking up the wrong tree". Editorials on day to day affairs, were out of our scope—Anyone could pick up his daily newspaper, and read the editorials, good, bad or indifferent, according to his personal viewpoint, or the Wall Street Journal and other such papers, but when the reader receives "ASBESTOS" he doesn't want or doesn't care whether it has general editorials or not; the reason he has subscribed is, because he wants to know about Asbestos. Thinking it over we discovered we generally received in our daily mail, at least one and mostly more subjects than we could use for editorials.

What about the use of amphibole asbestos in floor tile, mentioned in this issue? Other problems which will be brought up later, all concerning asbestos or allied materials.

Yes, we have decided that our job is asbestos, and there are so many possibilities and angles to the subject, we can't waste much energy or time on subjects of wider interest in which, perhaps we may and our readers may or may not, be especially interested.

You subscribe to "ASBESTOS" because you want to know about developments in Asbestos and allied fields and hereafter we will stick to that subject and let other matters be taken care of by other papers and magazines.

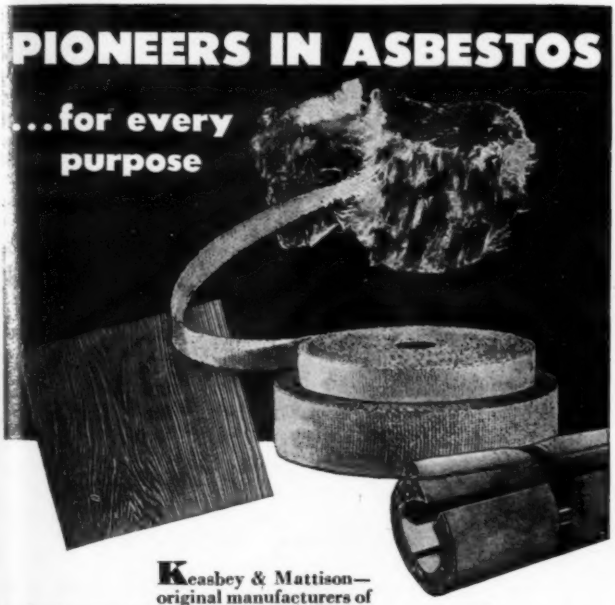
. . . —

The opportunity for each citizen to pay tribute to our war dead, comes but once a year. Buy a V.F.W. Buddy Poppy to wear on Memorial Day.

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PIONEERS IN ASBESTOS

...for every purpose



Keasbey & Mattison—original manufacturers of asbestos-cement roofing shingles in this country—produce a complete line of asbestos building materials: Siding and Roofing Shingles • Wallboards • Corrugated and Flat Lumber • Acoustical material.

For Industry, we offer the following all-purpose asbestos products: Asbestos and Magnesia Pipe and Block Insulations • Asbestos Electrical Materials • Packings • Textiles • Paper and Millboard • Marine Insulations.

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MILLING ASBESTOS ORE

This is the second installment of the article by W. E. Sinclair, M.I.M.M., (Consulting Mining Engineer). The first installment appeared in our March 1952 number.

Primary Crushing

Except where intensive knapping is practiced and comparatively high grade crude cobs are sent to the plant as is done on many of the mines in the "Blue" asbestos and amosite fields in the Transvaal, the first process in milling asbestos ore is crushing.

A primary crusher to break down the ore from the mine, prior to the removal of waste and long fibre, usually constitutes the first unit or units of the mill flowsheet. Whether the ore is sorted or selected before crushing or not, the primary crusher is the first essential to reduce the ore to a reasonable milling size.

The only variation in this unit in different mills is the choice of either jaw or cone crushers or any other gyratory type, depending mainly on the nature of the ore and the tonnage to be treated in a given time.

Advantage is generally taken, in this initial milling operation, to introduce "sorting", a manual process which may serve one or two purposes.

Sorting of the oversized ore is practiced to remove obvious waste rock, and any ore containing long fibre which is usually sent to a hand cobbing plant or is cobbed manually.

The product after crushing, is screened, the oversize (possibly plus 2½" pieces) is subjected to further sorting in some mills, while the undersize material (minus ⅝") is sent to Dryers before passing to the secondary crushing section or fine crushing.

In many mills this first stage of operations follows on to three different section, viz:

1. Long fibre to hand cobbing plant,
2. Oversize ore to secondary crushing plant, and
3. Undersize product to Dryers.

Dryers take many forms according to size and quantity of material being handled and the fuel or power available. The rotary or stack dryers would appear to be the

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The RUBEROID Co.

ASPHALT AND ASBESTOS BUILDING MATERIALS

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most efficient. The ore is passed thru a current of hot air varying from 100F. to 1,000F. in a rotary cylinder, the whole process being adjusted according to the quantity and amount of moisture in the ore. After drying, the undersized product is conveyed to either a secondary crushing section or to a fine crushing plant depending on the size of the product delivered from the initial punched trommel screen following primary crushing.

Long fibre ore is either hand-cobbed manually, or, if in sufficient quantity, a special plant is designed to crush and recover the long fibre without damaging the asbestos. It is only large mills where plus 3% of the total output consists of long fibre suitable for spinning to satisfy the textile industries and to serve special felted and filtration requirements, that special auxiliary plants are designed to recover the long grades. In general, the flowsheet shown on page 10 of our March number indicates a typical auxiliary mill design planned to handle the long fibre grades.

Secondary Crushing

This stage, in most asbestos plants, consists of the reduction of the minus product from the primary crushers. Since this may consist of pieces of ore varying in size from 2 to 3 inches and of different degrees of hardness, a wide choice of crushing units can be listed as suitable machines for the purpose of breaking down the material in readiness for the fine crushing stage.

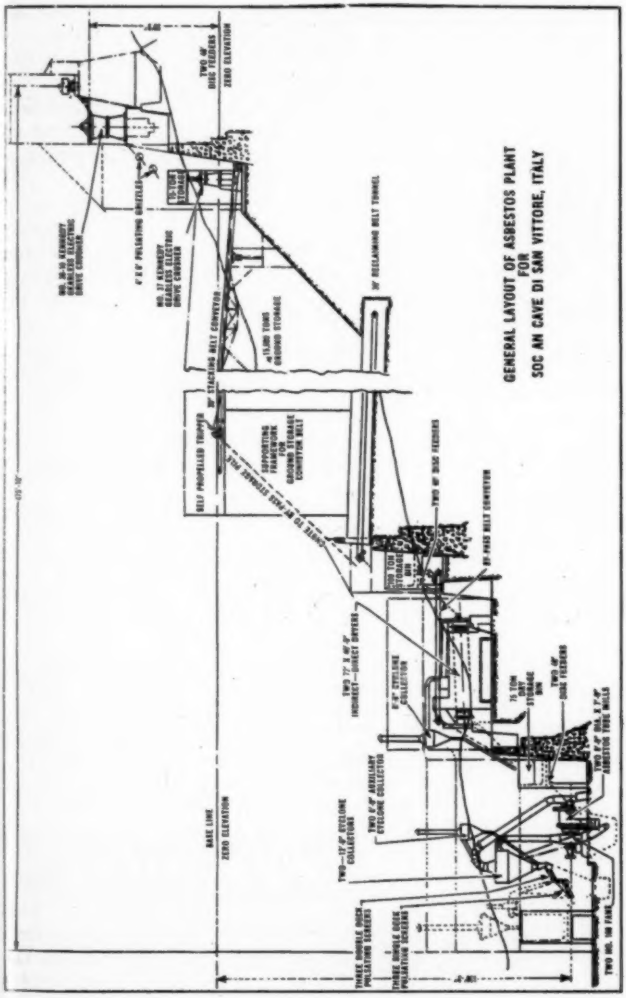
Gyratory crushers and granulators are useful machines in this class altho jaw-crushers also find a place in the secondary crushing stage.

Crushing rolls and pan rolls are units which may be found as either secondary crushing machines or, in certain circumstances, as third or fine crushing plant. So much depends on the class of ore and the fibre in it.

Secondary crushing procedure sometimes includes inter-mediary screening to remove dust and grit, and, in some cases, an airlift is introduced to remove any fibre that may have been released in the crushing process. This again depends entirely on the type of ore and fibre seams.

There is little doubt that in certain conditions the crushing rolls or crushing pans are effective machines for

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reducing ore without damaging the fibre contained in it. In the first case a simple pinching action (simulating the action of hand-cobbing) releases the fibre without any grinding or hammer blows. Similarly there is the crushing pan roll, which consists of a revolving dished pan into which the broken ore is fed and on top of which are made to revolve two heavy edge runners or solid wheels. As the material is crushed it is removed by a rake arrangement. Altho of low crushing capacity, except on soft ore, this machine is very effective.

It can only be their low crushing capacity that makes these machines rather uncommon in the majority of asbestos mills.

Twenty years ago, W. A. RuKeyser proved the effectiveness of the crushing rolls used in conjunction with bumping screens to recover clean undamaged fibre in its natural state, and it is almost certain that if manufacturers insist on crude fibre grades instead of the over-milled asbestos, a time will come when the RuKeyser system will displace the short cut to fibre recovery and fiberization by the use of hammer mills for fine crushing.

Fine Crushing

In normal ore-dressing processes, this section would be referred to as grinding instead of fine crushing. The basic difference depends on the type of plant used. The grinding action obviously is not favored in asbestos milling.

The undersize ore from the dryers and from the secondary section of the mill is usually sent direct to some for of fine crushing machine. Fine dust and grit should be removed by passing the feed thru trommel screens before feeding the material to the hammer mill, or other type of machine incorporated in the plant.

There is a wide choice of machines designed to provide a series of beater arms which revolve at high speed to meet the flow of ore particles fed in against the direction of rotation. Theoretically, the rock particles containing fibre, impinge against the beater arms and break apart, allowing the loosened pieces of fibre to be simply swept away in the centrifugal stream to the outlet. The speed of revolution of the revolving arms, not only causes dis-

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Wet volume determination—one of the many tests to assure the high quality of J-M short fibres.

These ASBESTOS "Shorts and Floats" bring improvements and savings to many products

Johns-Manville's improved processing methods eliminate much undesirable material normally found in asbestos shorts. This processing advantage makes the less expensive short fibres a source of product and production benefits. Among these are: improved appearance, greater strength, broader coverage . . . increased resistance to heat, abrasion, impact, cracking and crazing . . . better viscosity control, reduced settling . . . and in plastics, faster moulding with less distortion in drying.

These benefits make J-M asbestos "shorts" and "floats" standard ingredients in paints, plastics, asphalt floor tile, greases, welding rods, auto underbody coatings and a growing list of other products.

For detailed information, including grade recommendations, write for Brochure AFD-4A.

ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
814 Sun Life Bldg. (Telephone: UN-6-9701) Montreal, P. Q., Canada

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integration of the pieces of rock which they strike, but because of the confined space they are thrown round the inside perimeter of the casing and are also broken up by impact against the walls.

These machines are known as hammer mills, disintegrators, impactors and by various other names. Beater mills would be better or more nearly a more correct trm. They may be said to be the most popular fine crushing medium in use to-day because they are extremely effective in breaking down fine ore, despite the obvious fact that the fibre suffers serious damage or is ultimately over-milled.

Other machines have been tried such as ball-mills disc-crushers and jumbo's but except in certain suitable circumstances they cannot be said to be entirely satisfactory. Indeed, it has been truly said that the ideal machine has not yet been found for this job.

New Crushing Machine

It may be because of this that there has come about the development of a somewhat revolutionary machine called the Aero-fall mill as described by D. Weston in the Canadian Mining and Metallurgical Bulletin (see "ASBESTOS" March and April 1951). It is revolutionary in that it combines the function of all normal crushing, from run-of-mine material down to minus 325 mesh, in one single operation. This machine has its counterpart in an even more revolutionary machine in the latest combination tube-mill which is designed, in gold production plants, to crush, grind, classify, and amalgamate the products in one action.

It can be said that the extraordinary performance of the Aero-fall Mill, in so far as asbestos milling is concerned, is the resulting effort of many years' experimenting and study of the ball-mill as a fine grinding medium in crushing asbestos ore. There are many plants to-day that employ the orthodox ball-mill in fine stage crushing.

It would appear that the Aero-fall Mill is an improved version of the Kennedy Air-swept tube mill which was very successfully introduced in some asbestos mills nearly 25 years ago. The sketch on page 7 shows the San Vittore (Italy) asbestos mill which successfully employed th

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ASBESTONE
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Manufacturers
Asbestos-Cement
Building Products

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CORRUGATED SHEETS
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SIDING SHINGLES

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NEW ORLEANS 15, LA.

Branch Factory and District Sales Office
ST. LOUIS, MO.

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Kennedy tube mill in 1929.

The basic principle of this machine, like that of the Aero-fall Mill was that the air current passing thru the tube mill would remove all fibre immediately it was released from the ore. There are no revolving hammers or beater arms in the tub mill, and the pieces of ore, therefore, are not subjected to the severe blows they would receive in the conventional hammermill. Nevertheless, there must be a certain grinding action which is inevitable in the process of breaking up the rock, and consequently the fibre suffers certain attrition before being released and carried away in the air current.

About the time of the appearance of the Aero-fall Mill there was introduced in Rhodesia another multi-crushing type of machine known as the Claasens Impactor. The name is somewhat misleading, because the mill contains no beater arms; instead the crushing action is brought about by the self impact of the sized particles of the ore which, delivered on to a series of horizontal revolving plates, is swept round against the sides of the hour-glass shaped casing. As the pieces are reduced in size, they pass down to successive revolving discs and are finally reduced to small particles, while the fibre is removed, as soon as it is released by suction.

The essential principle of this mill was originally embodied in the Burdon disintegrator which was designed and manufactured in South Africa some 15 to 20 years ago. This machine, however, swept the ore round by succeeding sets of beater arms which were made to revolve at high speed on a vertical shaft supported in an hour-glass casing. This mill, like so many of the impactor type crushers was only effective in its right sphere.

This conclusion may really be applied to all types of crushing machinery in asbestos milling. Notwithstanding the use of the mill that is best suited to special conditions, in most cases, the asbestos must inevitably suffer some damage in the unavoidable crushing, grinding or hammering action that is an essential part of nearly all fine crushing machines which are necessary to break up the ore to release the fibre.

This article will be continued in our next issue.

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HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

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ATLAS ASBESTOS COMPANY

A Brief History

The Atlas Asbestos Company was founded by J. Carroll Johnston, who is a native of Montgomery County, Penna.

Mr. Johnston graduated from Cheltenham Military Academy and Pierce Business School and organized the Atlas Asbestos Company on February 25, 1922.

Original operations in the sale and distribution of automotive products were conducted from a small building in Norristown, Pa., but in 1922 the company purchased the Pennsylvania Asbestos Company of North Wales, which manufactured roof coatings and furnace cement. The Atlas Asbestos Company moved to North Wales where it continued the manufacture of those products in addition to its regular line of the sale and distribution of automotive parts, manufacturing a high-quality transmission lining for Model T Ford cars which attained wide acceptance and popularity. They then added equipment for the manufacture of asbestos textiles and by 1925 electrical insulating tape and woven automotive brake lining were in production.

From there on the production of asbestos textiles was expanded constantly and virtually each new year saw new products added to the line.

The main plant was rebuilt and doubled in size in 1931 and in 1933 the company began production of molded automotive brake lining in its Plant No. 2 which had been constructed on an adjoining tract of land purchased in 1930. In 1933 the old frame office building was razed and replaced by a modern two-story brick office building, and in 1937, the company became one of the pioneer weavers of glass textile yarn—then a brand new type of fibre.

In 1941 they purchased the famous Flamemaster asbestos stove wick business of the Triplewear Corporation of Paterson, N. J. to add to the already famous Glaswik stove wick. In 1944 the cotton wick business of Top Notch Wick Company of Brooklyn, N. Y. was purchased.

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As the variety of products increased and the scope o operations expanded, further additions were made t plant No. 2 in 1939, 1945 and 1950, and two warehouse were purchased in 1946 and 1947.

Almost from the very beginning the company export ed many of its products and was one of the pioneers in th exportation of automotive brake linings and allie materials. Over the years, it has built up a world wid reputation for quality products and today its expor



J. Carroll Johnston

Founder of the Atlas Asbestos Co.,

North Wales, Pa.

volume is a considerable portion of its business.

The company employs about 80 persons and manufactures a widely varied line of automotive products such as woven brake lining, molded brake lining, heavy duty fabric type clutch facings, molded clutch facings, packings, crankshaft seals, and gaskets; electrical insulating materials such as asbestos tape, glass tape, asbestos sleeving, and asbestos cloth; oil stove wicking in the form of asbestos, glass and cotton; items for the plumbing trade as for example joint runners and valve stem packing; heavy asbestos cloth for manufacture of safety garments such as gloves, mittens, helmets, suits and welding curtains; and many specialties including wick of both glass and asbestos for pocket cigareete lighters, a glass wick for the sub-irrigation of plants, woven tubing for laboratory beaker clamps, glass tape for insulation of aircraft landing and passing lights, etc. Most of these products are distributed nation-wide and thruout the world.

• • • —

Some people seem to have opinions that have been in their families for generations.

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ASBESTOS

ASBESTOS CORPORATION LIMITED

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QUEBEC CANADA

REPRESENTATIVES

GREAT BRITAIN:	W. A. JANITCH, 37/38 Coal Exchange Building Lower Thames St., London, E. C. 3
	U. S. A.:
BALTIMORE, MD.:	WALLACE & GALE CO., 115 South Gay St.
CLEVELAND, OHIO:	WORLD'S PRODUCTS TRADING CO., 842 Standard Bldg.
CHICAGO, ILL.:	THE STARKIE COMPANY 5461 W. Division St.,
NEW YORK, N. Y.:	WHITTAKER, CLARK & DANIELS, INC., 260 West Broadway
SAN FRANCISCO, CAL.:	L. H. BUTCHER CO., 15th and Vermont Sts.
	CANADA:
MONTREAL, QUE.:	ATLAS ASBESTOS CO., LTD. 5600 Hochelaga St.
TORONTO 1, ONT.	CANADIAN ASBESTOS ONTARIO LTD. 27 Front St., East

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FIRE-CHEX - THE ASBESTOS PLASTIC SHINGLE

For many years we have had an Asbestos Asphal shingle, then the Asbestos-Cement Shingle (rigid) an recently the Philip Carey Manufacturing Company ha introduced to the Asbestos Industry and to the publi their Asbestos *Plastic* Shingle—Fire-Chex.

Fire-Chex is a new, patented asbestos-bitumen plasti compound, and is to a certain extent flexible and a squar weighing 325 lbs. contains on an average, 59½ lbs. o asbestos fibre, while a square of asbestos-cement shingle contains 43¾ lbs of asbestos.

Fire-Chex carries the Underwriters' Class "A" labe for fire protection.

The Carey Company experimented with Fire-Chex fo ten years before bringing them to the public and will b glad to send samples and literature to anyone interested.

CANADIAN SPECIFICATIONS

The list of Canadian Specifications has been revised as of January 1, 1952 and a copy can be obtained from the Canadian Government Specifications Board, National Research Council, Ottawa, Canada.

The following Asbestos materials are included in the list.

Asbestos-Cement Conduit, Electrical
Asbestos-Cement Pipe, Flue
Asbestos-Cement Pipe, House Connection
Asbestos-Cement Pipe, Industrial Vent
Asbestos-Cement Pipe, Pressure
Asbestos-Cement Pipe, Sewer
Asbestos-Cement Products;
Schedule of Methods of Sampling and Testing
Asbestos-Cement Sheets, Corrugated
Asbestos-Cement Sheets, Dielectric
Asbestos-Cement Sheets, Flat, Decorative
Asbestos-Cement Sheets, Flat, Flexible
Asbestos-Cement Sheets, Flat, Fully-Compressed
Asbestos-Cement Sheets, Flat, Semi-Compressed
Asbestos-Cement Sheets, for Electrical Purposes
Asbestos-Cement Shingles, Roofing
Asbestos-Cement Shingles, Siding

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Head Office

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Mines

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Producers of All Grades of

RAW ASBESTOS

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CHICAGO 4, ILL. ..... GRANT WILSON, INC.
141 West Jackson Boulevard

NEW YORK, N. Y. ..... CONNELL ASBESTOS MFG. CO.
117 Martense Street,
Brooklyn 26, New York

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MARKET CONDITIONS

GENERAL BUSINESS.

The general level of business activity continues high. There are some soft spots in the picture as heretofore and recent events in Washington indicate that for the present, at least, there is no real certainty as to the course of wages, prices and profits. Defense production in many lines has lagged badly and things being as they are cannot get moving fast enough to take up the slack now evident, or soon to become apparent in several important basic commodities. Business in general and financial markets in particular are awaiting with interest and no little trepidation the final outcome of the steel wage-price dispute.

ASBESTOS—RAW MATERIAL.

Demand for asbestos fibre remains high in all grades but principally in the shorter fibres. All over the world interest and search for asbestos deposits remains unabated. Research is studying ways to utilize fibres which at present are not considered suitable for certain uses.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The demand in the asbestos textile market is very heavy, particularly in Asbestos Cloths of all types. The outlook is good for a continuation of capacity production to meet existing demand. In the higher grades, especially for defense requirements, the backlog is strung out for many months. Published Navy requirements indicate there will probably be little relief for other than government buyers.

Brake Lining. The business in this line is tapering off at present because of poor collections and overstocks, but the yearly outlook is good both in replacement and equipment.

Asbestos Paper. The last quarter has indicated a slowing up in demand. Backlog of orders is caught up and running against current requisitions and for warehouse inventory stock. Starting with May conditions are expected to improve and become active for the rest of the year. It is likely the year's volume will be about the same as 1951

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PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre



DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

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Asbestos Millboard. This business has been badly affected because of controls of metals in reduced allotments to auto industry equipment business. In some areas sales are good but in others they are falling off. The second quarter will bring improved auto production and equipment business will pick up. Commercial business will improve and it is expected that the business will end about 14% off in volume compared with 1951.

Insulation. High Pressure. The demand for Industrial and Government projects will be heavy during the second quarter. The market is somewhat spotty with an indication toward general improvement. Of course, operations for the balance of the year depend on the defense program. Many large jobs have been planned and if they go thru will provide sufficient insulation business to keep the industry working at a reasonably high capacity.

Insulation. Low Pressure. Restrictions on metal and home building have seriously affected this market. Jobbers are not carrying large inventories. Between industry requirements for woolfelt and elimination of restrictions on building, this volume should pick up during the year.

Asbestos Cement Products. Dealers and wholesalers stocks are heavy because of winter stocking; early spring weather will result in inventories moving out. A good spring and early summer business is anticipated in Asbestos Siding.

A reasonably heavy demand continues to exist for asbestos cement pipe, but there appears to be a softening of the market in many areas, because of the availability of cast iron pipe. While heavy backlog of orders may not continue thruout the year, it should be possible to sell production thus affording the opportunity to produce at top capacity.

Asphalt Tile. The outlook for 1952 is good and industry sales for this year should about equal last year's volume of approximately 580 million square feet.

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

. . . —

There is a window in every life if we can open it.

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FAST LOW COST WAY For Cutting ASBESTOS Products

Pictured is the cutting department of the Asbeka Asbestos Machining Corp., 113-53rd St., Brooklyn, N. Y. This progressive firm uses four Stone Saws for fast clean cutting of asbestos ebony, Transite and other asbestos products. Machine in center is cutting 2½" ebony for switchboard panels.

A Stone Saw can reduce your asbestos product cutting costs. You'll want to know more about the Stone Saw. Write today.

STONE MACHINERY CO., INC.

111 Fayette Street **Manlius, N. Y.**

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PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for January 1952 ..... 75,007 tons
Compared with January 1951 ..... 72,171 tons

Dominion Production for January 1952 is 76,287 tons, a difference of 1,280 tons from the Quebec figure.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for November 1951 ..... 6,310.16 tons
Valued at £471,369
Production for November 1950 ..... 5,506.50 tons
Valued at £366,837

Africa (Swaziland)

Production for January 1952 ..... 2,750 tons
Production for February 1952 ..... 2,720 tons

Union of South Africa

(Quarterly Information Report - Dept. of Mines)

Tons 2000 lbs.

	3rd Quarter (July, August, September 1951)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	14,134	2,230	£ 55,036	10,542	£ 416,077
Anthophyllite	....	....	....	....	....
Chrysotile	4,768	562	26,878	3,327	225,905
Cape Blue	4,208	493	22,558	4,188	298,867
Transvaal Blue	3,945	166	11,246	4,790	322,828
	27,055	3,451	£115,718	22,847	£1,263,677

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ASBESTOS

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And Carey research is constantly working to make those products work better and to develop new products which will utilize the outstanding qualities of asbestos.

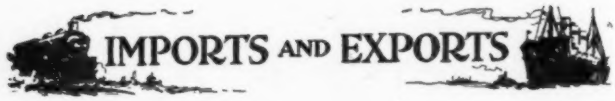
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Imports into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries	December 1951 Tons (2240 lbs.)
From Canada	45,521
Union of S. Africa	1,113
S. Rhodesia	591
Australia	86
U. S. S. R.	98
Other Countries	136
	47,545
Valued at	$4,367,058
By Grades:	
Crude No. 1, Chrysotile, S. Rhodesia	18
Crude No. 1, Chrysotile, Other Countries	8
Crude No. 2, Chrysotile, Canada	21
Crude No. 2, Chrysotile, S. Rhodesia	71
Crude, Other, Chrysotile, S. Rhodesia	502
Crude, Other, Chrysotile, Other Countries	5
Crude, Blue, Austrailia	86
Crude, Blue, Other Countries	34
Crude, Amosite, U.S.S.R.	98
Crude, Amosite, Union of S. Africa	1,113
Crude, Amosite, Other Countries	89
Textile Fibres, Chrysotile, Canada	1,598
Shingle Fibres, Chrysotile, Canada	7,990
Paper Fibres, Chrysotile, Canada	7,057
Other Fibres, Chrysotile, Canada	28,855
	47,545

Manufactured Asbestos Goods:

	December 1951 Quantity (lbs.)	Value
Asbestos Yarn		
Canada	20,606	$ 16,437
United Kingdom	68,031	43,918
Asbestos Packing—Fabric	541	540
Asbestos Packing—Not Fabric	2,992	1,966
Asbestos Woven Fabric—Other		
Canada	10,986	12,491
Other Countries	300	529

(Continued on Page 28)

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Manufactured Asbestos Goods Continued

	December 1951 Quantity (lbs)	Value
Asbestos Brake Lining (Mld.)	1,236	854
Asbestos Cement Products (Impreg.)	7,470	1,067
Asbestos Cement Products (Not Impreg.)		
Canada	1,710,317	112,952
Italy	291,016	16,111
Other Countries	203,260	11,531
Asbestos Shingles (Not Impreg.)	18,951	1,057
Asbestos Manufactures—Others	....	1,663
	2,335,706	$221,116

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	December 1951 Tons (2240 lbs.)	Value
To Europe	321	$ 81,856
South America	540	139,366
Other Countries	450	135,018
	1,311	$356,240

Manufactured Asbestos Goods:

	December 1951 Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	747,141	$ 109,998
Asbestos Textiles & Yarn	Lbs.	47,862	56,578
Asbestos Packing	Lbs.	157,331	159,260
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs.	573,952	557,822
Asbestos Bk. Lng (Woven)	Lin.Ft.	70,724	43,720
Asbestos Clutch Facings	No.	116,291	78,165
Asbestos Brake Blocks	Lbs.	25,279	29,023
Asbestos Construction Materials	Lbs.	2,939,880	249,271
Asbestos Manufactures—Others		....	60,989
			$1,344,735



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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

Crude	Year 1951 Tons (2000 lbs.)	Value	December 1951 Tons (2000 lbs.)	Value
United States	34	$ 27,056	464	$ 358,8[illegible]
United Kingdom	....	....	100	120,0[illegible]
South America	....	....	....	
Central America & Mexico	....	....	....	
European Countries	21	13,584	78	57,2[illegible]
Other Countries	13	9,180	18	12,2[illegible]
	68	$ 49,820	600	$ 548,4[illegible]
Milled				
United States	15,115	$2,201,551	199,168	$29,106,9[illegible]
United Kingdom	4,481	648,377	30,707	4,585,3[illegible]
South America	1,671	283,698	13,376	2,296,2[illegible]
Central America & Mexico	1,317	186,888	5,485	846,3[illegible]
European Countries	4,338	730,711	76,061	7,506,7[illegible]
Other Countries	3,806	517,505	26,522	3,832,3[illegible]
	30,728	$4,568,730	324,594	$48,854,5[illegible]
Shorts				
United States	31,555	$1,525,365	512,433	$24,592,3[illegible]
United Kingdom	6,270	329,640	38,023	1,666,6[illegible]
South America	904	66,674	6,237	438,6[illegible]
Central America & Mexico	40	1,435	550	31,5[illegible]
European Countries	8,887	627,970	48,601	3,322,2[illegible]
Other Countries	771	52,112	11,216	878,3[illegible]
	48,427	$2,603,196	617,060	$30,929,8[illegible]
Grand Total—Unmanufactured Asbestos	79,223	$7,221,746	942,314	$80,332,8[illegible]
Manufactured Asbestos Goods:				
Brake Lining		$ 105,045	.....	$ 742,5[illegible]
Packing		433	.....	33,3[illegible]
Other Materials		151,124	.....	722,1[illegible]
		$ 256,602		$ 1,497,9[illegible]

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ASBESTOS FIBRE STOPS LEAKS IN TANK CARS

(Taken from article in the February 1952 issue of Hercules Filtration Fact Finder)

Many liquids are shipped long distances in tank cars on the railroads. Wine from California is shipped in bulk in this way to be bottled and distributed on the eastern seaboard. Acids, molasses, syrups, edible oils, liquid pitch, and fuel oil are other products shipped in tank cars.

A lot of such liquids used to be lost because tank cars develop tiny leaks after having been in service for a while. The only way to stop the loss from a leak while a car was in transit was to shunt the car onto a siding, bring up another tank car, and transfer to it the contents of the leaking car—an expensive and time consuming undertaking.

A railroad man found that a small amount of asbestos fibre, put in with the liquid, would stop these pin holes, at least until the tank could be thoroly overhauled.

As a result the Association of American Railroads recently sent out a bulletin to 1500 of its members telling of Hercules asbestos as a "leak-stopper", explaining "The use of this substance as a leak stopper results from the fact that when it is put into a liquid it diffuses thruout the liquid and because of its fine filament size, it follows any flow or current that might be present within the tank. The currents carry it to the leak, where it mats across the crevice to form a plug."

And the report adds, "Due to its wide use in the pharmaceutical and food processing fields it is acceptable to both the Pure Food and Drug authorities as well as the Bureau of Animal Industries of the Department of Agriculture."

We are delighted to have the Association of American Railroads find a new use for Hercules asbestos and hope it will save their shippers from the great losses occasioned by leaks.

Anyone interested should write Hercules Filter Corporation, Paterson, N. J., for a copy of their house organ which contains this article.

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CANADA'S ASBESTOS GOODS - 1950

The Asbestos Products Industry, 1950, a six 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; production by the manufacturers of asbestos goods in Canada in 1950 was valued at $13,818,919, an increase of 33% over the 1949 figure of $10,343,009.

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

		1950		1949	
	Unit	Quantity	Cost at Works	Quantity	Cost at Works
Asb. Brake Linings					
Molded	Ft.	....	$ 1,585,683	4,062,761	$ 1,110,921
Other	Ft.	....	701,361	808,841	303,373
Asbestos Pipe and Boiler Coverings		....	1,231,995	....	1,127,273
Asbestos Clutch Facings	No.	1,201,830	556,570	852,470	457,785
Asbestos Gaskets	Lb.	....	40,904	34,354	31,863
Asbestos Packings (All Kinds)		....	315,594	....	260,190
All Other Products[1]		....	9,386,812	....	7,051,604
			$13,818,919		$10,343,009

[1]Includes asbestos dryer felt, hydraulic brake hose, asbestos shingles, asbestos yarn, asbestos millboard, asbestos cement wallboard, asbestos cloth, asbestos cement pipe, etc. Figures for these commodities cannot be shown separately as in most cases there were only one or two producers in this industry.

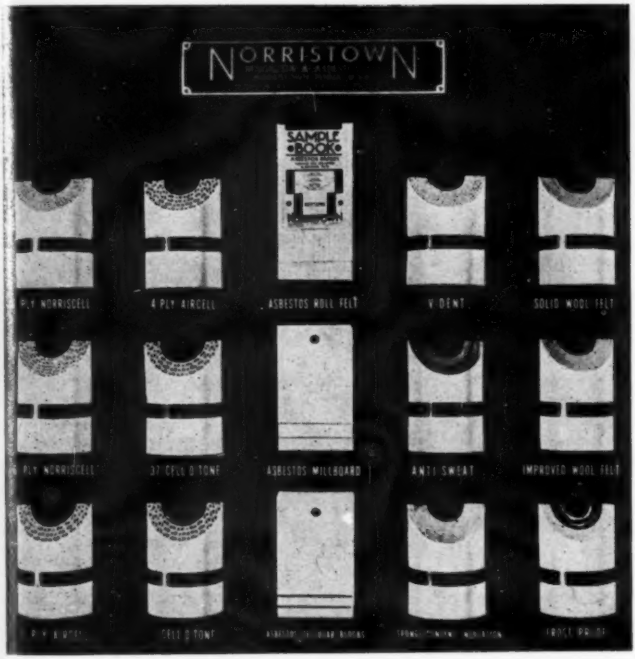
Likewise the following table:

	1950	1949
Number of Plants	15	14
Average Number Employees	1,656	1,533
Salaries and Wages	$3,890,249	$3,637,864
Cost of Fuel and Elec. at Works	518,886	461,473
Cost of Materials at Works	6,904,017	4,794,030
Gr. Selling Value of Products	13,818,919	10,343,009

Of the 15 factories reporting in 1950, 6 were located in Quebec, 6 in Ontario, 1 in Nova Scotia and 2 in British Columbia.

Other tables, concerning imports, exports, materials

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used in the Asbestos Products Industry, etc., are included in the pamphlet which may be obtained from the Industry and Merchandising Division at Ottawa for 25c. Ask for "The Asbestos Products Industry—1950."

A. S. H. V. E. 1952 GUIDE

The 1952 edition of The Heating, Ventilating and Air Conditioning Guide, published annually by The American Society of Heating and Ventilating Engineers, has recently been issued. This 30th edition has a total of 1,520 pages and represents an increase in both usefulness and size. Thirty-two pages of new data have been added to the 1064 page Technical Data Section which contains technical and design information on 50 subjects.

Copies of the volume, priced at $7.50 each, are available thru ASHVE headquarters, 62 Worth St., New York 13, N. Y.

BUILDING

Construction contracts awarded in the 37 states east of the Rockies during February totaled $885,206,000 or 2 per cent less than January, and 22 per cent less than February 1951 according to F. W. Dodge Corporation. Awards for the first two months of the year were $1,787,297,000 or 18 per cent less than the total for the first two months of 1951.

Non-residential contracts in February totaled $301,404,000 or 16 per cent less than January and 30 per cent lower than February last year. Residential awards of $396,438,000 were 17 per cent higher than January but were 25 per cent lower than February 1951. Public and private works and utilities at $187,364,000 were down 9 per cent from January but were up 5 per cent over February a year ago.

Two-month 1952 totals compared with two-months 1951 were as follows: Non-residential, $659,080,000, down 26 per cent; residential, $734,159,000, down 23 per cent; public and private works and utilities, $394,058,000, up 16 per cent.

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NEWS OF THE INDUSTRY

BIRTHDAYS

Philip A. Meyer, President, Nicolet Asbestos Mines, Ltd., Nor bestos, Que., Canada, April 16.

P. O. Baker, District Manager, Asbestos Textile & Packing Division, Raybestos-Manhattan, Inc., Providence, R.I., April 18.

Lorne Bain, President, Atlas Asbestos Company Ltd., Montreal P.Q., Canada, April 19.

Alvan D. Simpson, President, Asbestos Erectors, Inc., Bound Brook, N. J., April 19.

George A. MacLellan, Managing Direector, George MacLellan & Co., Glasgow, Scotland, April 19.

Guy H. Montmartin, President, Alpine Mining Corporation, New York City, N. Y., April 21.

H. J. Dowd, First Vice President, Smith Asbestos Products, Inc. Millington, N. J., April 22.

John R. Skidmore, Secretary-Treasurer, Pacific Asbestos-Cement Products Corporation, San Bernardino, Calif., April 22.

Frank R. Hickory, President, Asbestos Products, Inc., St. Paul Minn., April 27.

J. Carroll Johnston, President & Treasurer, Atlas Asbestos Co. North Wales, Pa., April 28.

Merlin W. Simon, Secretary, Sprinkmann Sons Corp., Milwaukee Wis., April 30.

Donald H. Spicer, President, World Bestos Corporation, New Castle, Ind., April 30.

Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, N. J., May 1st.

R. G. Bennett, Roofing Manager, A. H. Bennett Co., Minneapolis, Minn., May 4.

S. E. Josi, Director, Johns-Manville Co., Ltd., London, England. May 5.

George S. Fabel, President, Southern Asbestos Company, Charlotte, N. C., May 7.

Robert B. Davis, General Manager, Raybestos Division, Raybestos-Manhattan, Inc., Bridgeport, Conn., May 8.

C. G. Dandow, Vice President, Johns-Manville Sales Corp., New York City, May 12.

L. M. Cassidy, Chairman of the Board, Johns-Manville Corp., New York City, May 13.

L. T. Bennett, Vice President, A. H. Bennett Co., Minneapolis, Minn., May 14.

A. M. Ehret, Sr., Chairman, Ehret Magnesia Mfg. Company, Valley Forge, Pa., May 15.

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

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• BLUE ASBESTOS

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SURPRISE DINNER

To J. Carroll Johnston on the 30th Anniversary of Atlas Asbestos Company



From left to right—C. H. Carlough, O. H. Cilley, J. Carroll Johnston, George S. Fabel

Officers of the Atlas Asbestos Company, North Wales, Pa. gave a surprise dinner on the evening of March 14th, the 30th Anniversary of the founding of the firm by Mr. Johnston.

The dinner was held at Forest Inn near Ambler and approximately 100 persons attended.

Guests included executives and employees of the Company, business associates, customers and personal friends. Mr. Johnston was presented with a beautiful watch charm by the employees, the presentation being made by Frank W. Boorse, Plant Superintendent and W. H. Johnston presented his father with a scrapbook containing a history, old photographs, past and modern advertisements of products, autographed signatures of guests present and letters of congratulation.

Music and other entertainment including the reading of congratulation letters and telegrams made a most enjoyable evening.

The history of the Company was also read and will be found on page 14 of this issue.

UNIVERSAL ASBESTOS MFG. CO., LTD.

Annual Report

The Annual report of the Universal Asbestos Mfg. Company, Ltd., covering the period of October 2, 1950 to September 30, 1951 has recently been received and hows a profit, after providing for Profits Tax and Income Tax amounting to £32,940.

The report is very well presented in a twelve page, two-color booklet, well illustrated and is altogether most attractive.

Incidentally the firm has been a subscriber to "ASBESTOS" since 1931.

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CASSIAR ASBESTOS CORPORATION LIMITED—Memo

The company has sent us a prospectus and describe the property as follows:

The property containing this asbestos deposit is located on McDame Mountain in northern British Columbia. It is reached by truck road, leaving the Alaskan Highway at mile 648, a distance of 90 miles from this point. It is 270 miles from the junction at mile 648 to the White Pass and Yukon Railroad connecting Whitehorse with Skagway and the Pacific Coast.

The rocks underlying the claims are mainly sedimentary, consisting of lower argillites and shales overlain by limestone, which in turn is overlain with quartzite. Intruding the sediments along the valley floor is a porphyritic granite and a basic rock has been intruded into the limestone. This latter rock, now altered to serpentine, contains many veinlets of cross fibre chrysotile.

The main ore depssit is overlain by a mantle of talus containing important amounts of asbestos fibre. Based on outcrops showing thru this material and exposures on the cliff face, the deposit is estimated to have a minimum length exposed of 1200 feet, a probable average width of 200 feet and where exposed in the cliff face, a vertical depth can be seen of 400 to 500 feet.

Sufficient exploratory work has not yet been carried out to permit any calculation of ore reserves. Present plans call for milling the talus material while developing the main deposit.

Preliminary milling and spinning tests have been completed on the fibre from the surface talus and indicate an 8% recovery of spinning grades low in magnetite content (1.0-1.5%). Plans are being drawn and mining and milling equipment ordered with the objective of reaching production by December 1st, 1952. Most of the fibre will be Group 3 with a small production of hand cobbed crude and an additional production of Group 4 fibres.

ARTICLE—Keen Interest in Asbestos

A brief article on asbestos "Keen Interest in Asbestos" appears in the March issue of the Canadian Mining Journal, published at Gardenvale, Que., Canada.

WILLIAM F. LANE

Obituary

Altho only 52 at the time of his death on March 22nd, 1952, William F. Lane was well known in the insulation contracting business on the West Coast.

In the 1920's Mr. Lane was working foreman for the Western Asbestos & Magnesia Company which became a Johns-Manville Approved Insulation Contractor in 1927. They went heavily into the industrial insulation field in 1927, during the building boom. In 1939 Mr. Lane resigned from Western Asbestos and organized his own Company, the Fiberglas Engineering and Supply Company in San Francisco, becoming its chief executive Officer and General Manager, which position he held until his death.

Mr. Lane was well known in the Asbestos Industry.

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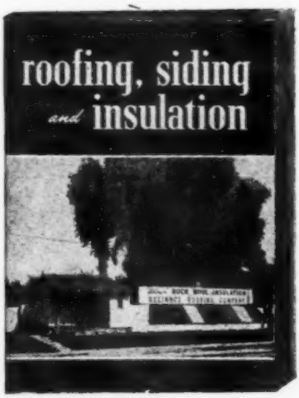
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CAREY—Annual Report

Net profits of the Philip Carey Mfg. Company, Cincinnati, for 1951 were $2,984,196; equal to $3.62 per share on the common stock. Dividends paid during 1951 totaled $1,280,000 on the common stock and $89,291 on the five per cent preferred.

R. S. King, Chairman of the Board, and J. W. Humphrey, President, said that sales reached an all-time high of $55,223,670; an increase of nearly ten per cent above the 1950 figure of $50,734,636.

New facilities, including the purchase of the Asbestos Company of Texas cost $2,413,459. New developments and improvement of those 800 products in the existing building and industrial line resulted in the increased sales, despite government restrictions and greatly increased taxes.

PORTER HAYDEN ELECTS OFFICERS

M. R. Carr, President of H. W. Porter & Co., Inc., of Newark, New Jersey and its wholly-owned subsidiary, Reid Hayden, Inc., of Baltimore, Richmond and Charlotte, has announced the election of the following new Officers and Directors and the promotion of individuals within the Porter-Hayden organization:

W. H. Hall, Manager of the Richmond District and *James MacDonald*, Manager of the Charlotte District have been elected Vice-Presidents of Reid Hayden, Inc. Messrs. Hall and MacDonald have also been elected Directors of the parent company, H. W. Porter & Co., Inc., Newark, New Jersey. *Raymond J. Sachs* of H. W. Porter & Co., Inc., has been elected a Director of the wholly-owned subsidiary, Reid Hayden, Inc. *W. H. Hall* has been appointed General Manager of the Porter-Hayden Companies with headquarters in Baltimore, Maryland. *Charles A. Rueger* has been appointed Manager of the Richmond District of Reid Hayden, Inc., succeeding W. H. Hall. *J. Hampton Saunders* has been appointed Construction Manager of the Richmond District. *J. J. Fitzgerald* has been appointed Assistant District Manager of H. W. Porter & Co., Inc., Newark, New Jersey. *Wilbur H. Morris* has been appointed Manager of the Construction Department of the Porter Company, succeeding J. J. Fitzgerald. *A. C. Carlson* has been appointed Manager of the Conduit Department of the Porter Company

The Porter-Hayden Companies are one of the oldest and largest insulation contracting units on the Eastern Seaboard. Both companies have represented Johns-Manville Corporation for over twenty-five years as an exclusive heat and cold insulation contractor. Their franchised territory includes part of New York State, Northern New Jersey, Maryland, Virginia, part of West Virginia, North Carolina and South Carolina.

The Porter-Hayden Companies also manufacture and install a nationally known underground steam conduit system, trade marked as Therm-O-Tile.

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WET MACHINE FELTS

FOR

ASBESTOS CEMENT PRODUCTS

ASBESTOS MILL BOARD

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DRYCOR FELT COMPANY

STAFFORDVILLE, CONN., U. S. A.

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Your Inquiries Are Invited

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ARTICLE—U. S. BUREAU OF STANDARDS
Asbestos Cement Pipe

The National Bureau of Standards has recently issued Engineering Report RP2264—Effect of Exposure to Soils on the Properties of Asbestos-Cement Pipes; prepared by Irving A. Denison and Melvin Romanoff.

It summarizes results of studies made on two varieties of asbestos-cement pipe involving exposure for periods up to 11 years to 15 different soils ranging from well-aerated types deficient in water soluble salts to very poorly aerated ones containing high concentrations of soluble material. Effects of exposure to soils on mechanical and physical properties of asbestos-cement pipe are indicated by measurements of hydrostatic bursting pressure, crushing strength, water absorption, apparent specific gravity and observations of the condition of the surface of specimens removed.

Copies can be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. for 15c in coin.

It is a reprint from the Journal of Research, NBS, volume 47, number 5 (November 1951) and contains 13 pages.

UNION ASBESTOS & RUBBER CO.
Annual Report

The net income in 1951 amounted to $773,807 equivalent to $1.63 per share as against the previous year's net income of $325,843 amounting to 68 cents per share on 475,176 shares of common stock outstanding.

A 50% increase in sales over 1950 made 1951 shipments of $12,123,000 a close second to 1948, largest in the 34 year history of the company. Materials for the defense program represented only a minor portion of the year's sales, and of the company's backlog of more than $5,500,000 at the beginning of 1952.

Together with the annual report, shareholders received a folder giving a brief description of the distribution of the products of the company's seven plants, six of which manufacture insulations, asbestos packings, gaskets and textiles, one plant being engaged in fabricating steel and sheet metal products, with facilities for hot-dip galvanizing.

GREENE TWEED CO.
Issues Bulletin on Palmetto G-T Ring

A new 8-page bulletin describing the Palmetto G-T Ring—a packing that is being successfully used in many commercial applications, at pressures to 15,000 psi, without extrusion of the packing—has been issued by Greene, Tweed & Co., North Wales, Pa. Text and illustrations give detailed facts covering design superiority features, operational data, installation procedures, and suggested dimensions.

Copies of the bulletin can be obtained by writing to Greene, Tweed & Company, North Wales, Pa.

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ARTICLE BY M. C. SHAW
Secretary of Asbestos Textile Institute

An article "Abradoflex—Abrasion Resistance Tester" by M. C. Shaw, Secretary of the Asbestos Textile Institute, School of Ceramics, Rutgers University, New Brunswick, N. J., appeared in the February 1952 issue of the A.S.T.M. Bulletin. The machine has been developed for asbestos textiles and other fabrics and a brief synopsis of the article is given in the following:

A wearability testing machine has been developed for asbestos textiles and other fabrics, particularly of the heavier grades. The destructive actions of abrasion, flexing, and creasing are simultaneously applied to cloths under test and the resulting degradation evaluated in terms of loss in tensile strength. The Abradoflex rating index derived from these determinations serves to indicate the relative wearability of the textiles so tested.

RAYBESTOS-MANHATTAN, INC.
Annual Report

Annual report of Raybestos-Manhattan, Inc., for 1951 shows net income of $4,857,140, or $7.73 per share. For 1950 net income was $4,868,769, or $7.75 per share.

Net sales in 1951 were $84,855,074 compared with $65,444,666 in 1950.

Detailed figures for 1951 follow. Comparable figures for 1950 are given on page 44 of our April 1951 number.

Net Sales	$84,866,074
Manufacturing Cost of Sales	58,994,073
Gross Profit	25,872,001
Selling, Administrative and General Expenses	10,470,056
Profit from Operations	15,401,945
Other Income, Discount, Interest, Dividends, etc.	705,195
Total Income before Taxes	16,107,140
Provision for Taxes	11,250,000
Net Income transferred to Surplus	4,857,140
Surplus as of December 31, 1951	25,016,620

W. E. SINCLAIR
Visits Northern Transvaal

W. E. Sinclair, M.I.M.M., Consulting Mining Engineer, is leaving Johannesburg shortly on an extended professional visit, first to the Northern Transvaal and then on to Nyasaland, and will be away, therefore, for several weeks.

DEATH OF FRANKLIN CHURCHILL EDSON

Franklin Churchill Edson, former president and chairman of American Asbestos Mfg. Company, Huntington, Ind., died on March 1st, at the age of 71. Mr. Edson was long associated with the automobile industry.

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AMERICAN BRAKE SHOE COMPANY ANNUAL REPORT

The 50th Annual Report of American Brake Shoe Company, for the year ending December 31, 1951 has been received.

Shipments for the year totaled $147,569,868, a new high for the Company. The previous peak was 1948 when shipments totaled $120,190,784. In 1950 shipments were $106,578,958.

Unfilled orders at December 31 were $61,000,000, off slightly from the all-time high of $63,000,000 in September 1951. At the beginning of 1951, they were $42,000,000.

The distribution by industries of the dollar volume of shipments compared with the previous year was as follows:

	1951	1950
Railway Supply	51.2%	51.4%
Automotive and Farm Implement	14.6%	15.4%
Mining, Construction and Earth Moving	11.8%	12.6%
Machinery and Manufacturing	5.7%	4.3%
Steel	4.8%	4.4%
Others, including Petroleum Chemical and Cement	11.9%	11.9%

Net earnings in 1951 after income and excess profits taxes amounted to $6,468,609 compared to $5,939,289 in 1950. After dividends of $787,943 on the Preferred Stock, the amount earned on the Common Stock was equivalent to $5.19 per share on 1,095,301 shares. In 1950 the earnings were $5.17 per common share on 995,563 shares, which was the number outstanding prior to the payment of a 10% stock dividend in January 1951

Total Federal taxes on income for the year were $11,550,000 or the equivalent of $10.54 per common share.

While shipments were 38% greater in 1951 than in 1950, pre-tax earnings of $18,018,609 represented an increase of 46% over 1950 when they amounted to $12,339,289. This increase reflects not only the higher volume of shipments but also the continued improvement in the operating efficiency of our newer plants and the result of their program of mechanizing older plants.

PHILIP C. JOHNSON APPOINTED WESTERN MANAGER By Bird & Son

Bird & Son, Inc., announces the appointment of *Philip C. Johnson* as Assistant Western Manager of the Building Materials Division at Chicago. Mr. Johnson, a University of Illinois graduate, was formerly Central Sales Division Manager.

J. W. Morgan, formerly sales representative for the firm in central Indiana, has been named as the new Central Division Sales Manager for the Bird Building Materials Division, with headquarters in Toledo.

As a salesman for Bird & Son, Mr. Johnson covered territories in the Midwest and was in Cleveland for four years following the war while with the State Supply Co.

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JOHNS-MANVILLE
Stock Listed on Canadian Exchanges

The common stock of Johns-Manville Corporation was listed with the Montreal and Toronto stock exchanges on March 12th.

The stock, amounting to 3,164,941 shares of no par value, will be admitted to trading at the opening of the Toronto and Montreal markets on March 13. There is no other Johns-Manville stock outstanding. Previously, the company's stock has been listed only on the New York Stock Exchange.

The National Trust Company, Limited, of Toronto, has been appointed Canadian Transfer Agent at Toronto and Montreal and the Montreal Trust Company has been appointed Registrar at Montreal and Toronto.

Johns-Manville's capital investment totals $127,000,000 of which a substantial amount is in Canada. The company's Canadian business is handled by Canadian Johns-Manville Company, Ltd., a wholly-owned subsidiary of Johns-Manville Corporation.

The new listings are expected to facilitate the purchase and sale of the stock in Canada and thus encourage more widespread stock ownership by Canadians. Since 1945 Johns-Manville has spent $88 million in Canada and the United States on expansion, cost reduction, improvement and replacement.

Officials of the Toronto Stock Exchange commented that Johns-Manville was one of the first of the big American companies to obtain Canadian listing.

JOHNS-MANVILLE
Harold Thornton Coss
Dies At 52

Harold Thornton Coss, Manager of the Insulations and Textile Department at the Johns-Manville Research Center, died March 12, after a heart attack.

Prominent for many years in ceramic circles, Mr. Coss, who received his B. S. degree in Ceramic Engineering in 1922 from the University of Illinois, holds 15 patents for his work in mineral wool, ceramic, and acoustical insulations. Following his graduation from college, he served as an instructor in the Ceramic Department at Rutgers University from 1922 to 1923, when he joined the staff of the Celite Company at Lompoc, California.

The Celite Company became part of Johns-Manville Corporation, and in 1929 Mr. Coss transferred to the Research Center at Manville. He was promoted to Section Chief in 1937 and to Research Manager in 1942.

BRAKE LININGS LIMITED
P. F. Bailey Made Managing Director

A. Bailey, Governing Director of Brake Linings Limited, Buxton, Derbyshire, England, died suddenly on January 26th. Mr. Bailey founded the Company in 1928.

His son, *P. F. Bailey* has been appointed Managing Director.

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PAUL W. WOOD COMPANY
Appointed J-M Distributor

Paul W. Wood Company, 350 Townsend Street, San Francisco, Calif., have been appointed Distributors for short fibres in San Francisco and Los Angeles by the Asbestos Fibre Division Johns-Manville Company, Ltd.

FLINTKOTE ANNOUNCES NEW STRI-COLOR ASBESTOS-CEMENT SIDING

A beautiful striated embossed design and rich, warm colors are featured in the new asbestos-cement siding recently released by The Flintkote Company.

All Stri-Color Siding Shingles incorporate the revolutionary new Flintkote treatment—DU-SHIELD. This Flintkote finish—used in the manufacture of all Flintkote asbestos-cement products—gives the shingle surface a smooth, lustrous look. It deeply enriches the color tones and helps to accentuate the handsome embossed striations. DURA-SHIELD makes the shingle more water repellent and gives an improved protective finish which helps to resist staining.

Stri-Color Asbestos-Cement Shingles in brown, green and grey are now available thru all Flintkote distributors.

Association's of Arizona Asbestos Producers Planned

Several asbestos producers in Arizona are sponsoring an association, to promote better grading of fibre, cleaner fibre, and change of ideas on mining and milling, car pooling on shipments, and national advertising. The first meeting was held on April 10, at which a board of directors and chairmen were elected. As this April issue was on press at the time of meeting no full report can be given. Our May issue will contain a complete report.

FOR SALE
Corrugating rolls and air cell equipment.
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Specializing in asbestos production in
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AVAILABLE FOR PROMPT SHIPMENT
Anthophyllite Asbestos produced by the Upper Egypt Mining Co.
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Tradeway International Corporation
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AUTOMOBILE SALES

	1952	
	January	February
Passenger Cars	273,572	333,885
Motor Trucks	101,060	100,606
Motor Coaches	778	625
	375,410	435,116

In January 1951 a total of 606,833 motor vehicles were sold.

In February 1951 a total of 618,321 motor vehicles were sold. In the two months of 1952 the total was 810,526.

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

A. S. T. M. Anniversary Meeting

The 50th Anniversary Meeting of the American Society for Testing Materials will be held in New York City at the Hotels Statler and New Yorker during the week of June 23, 1952. For further information write the American Society for Testing Materials at 1916 Race Street, Philadelphia 3, Pa.

. . . —

The Sherbrooke, P.Q., Branch of the Canadian Institute of Mining and Metallurgy was officially formed in Sherbrooke on March 1. The jurisdiction of the new branch will include all areas not immediately served by the Thetford Mines Branch, and the forty-six members of the charter group are drawn from Asbestos, Weedon, Ascot, northern Vermont, U.S.A., and related areas.

. . . —

From the Rhodesian Mining Journal, January 1952 issue of Asbestos in 1951:

Asbestos is the Colony's leading base mineral, the total value of the 1951 production is estimated to be £5.5 million. During 1952 production is expected to increase and it appears that the total value will exceed that of the gold output.

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Mines at Mashaba and Filabusi

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CURRENT RANGE OF PRICE

As of April 10, 1952

Canada—	Per Ton (2000 lbs.) f.o.b. Mine
Group No. 1 (Crude No. 1)	$1,100.00 to $1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00 to 1,000.00
Group No. 3 (Spinning Fibre)	300.00 to 525.00
Group No. 4 (Shingle Fibre)	150.00 to 200.00
Group No. 5 (Paper Fibre)	100.00 to 140.00
Group No. 6 (Waste, Stucco or Plaster)	77.00
Group No. 7 (Refuse or Shorts)	35.00 to 70.00
Vermont— Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville Vt.	
Group No. 3 (Spinning & Filtering)	321.00 to 348.00
Group No. 4 (Shingle Fibre)	156.00 to 173.00
Group No. 5 (Paper Fibre)	110.00 to 132.00
Group No. 6 (Waste, Stucco or Plaster)	78.00
Group No. 7 (Refuse or Shorts)	37.00 to 68.50

ASBESTOS STOCK QUOTATIONS

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

		March 1952		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	50¾	53½	53½
Amer. Br. Shoe (Pfd)	np	39¼	41¾	40½
Armst. Ck. (Com)	100	103½	108	104¾
Armst. Ck. (Pfd)	np	93½	96½	96½
Armst. Ck. (Conv. Pfd.)	np	111½	113	113
Asb. Corp. (Com)	np	22⅞	24¼	23½
Asb. Mfg. Co. (Com.)	1	1⅜	1⅜	1⅜
Carey (Com)	10	17⅝	18⅝	18⅝
Celotex (Com)	np	17⅛	19⅛	19⅛
Celotex (Pfd)	20	16½	17	17
Certainteed (Com)	1	14¾	16⅛	16⅛
Flintkote (Com)	np	29	32⅜	32¼
Flintkote (Pfd)	np	99	101½	101
Johns-Manville (Com)	np	65¼	69⅞	68¾
Pabco Products (Com)	np	14¼	15¾	15¾
Pabco Products (Pfd)	100	96	96	96
Ray-Man (Com)	np	41½	45	44⅝
Ruberoid (Com)	np	56⅛	59	57¼
Thermoid (Com)	1	10¾	11⅝	11⅜
Termoid (Pfd)	50	46	48½	47½
Union Asb. & Rub. (Com)	5	12¾	13⅜	13
United Asb. (Com)	1	$3.80	$4.45	$4.45
U.S. Gypsum (Com)	20	106¼	110¼	110
U.S. Gypsum (Pfd)	100	170	177	177
U.S. Rubber (Com)	10	76¾	81½	81⅜
U.S. Rubber (Pfd)	100	139¾	145¾	145¾

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BOOK LIST

The Asbestos Factbook, 16 pages: Information in compact form on origin, facts, locations, uses of analyses, qualities. 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy.

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each.

Brake Linings of Various Types. By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS." Price 25c per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished products, in plain language, illustrated. 25c a copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks. 75c per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

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AFTERTHOUGHTS

¶ We plan to publish from time to time brief accounts of various developments of new asbestos deposits especially in Canada, but other places as well. Send us descriptions, photographs, information as to location and other pertinent data. See the first one on page 42—Cassiar Asbestos Corporation, Limited.

¶ A phone call one day came from a man who wanted an engineer or engineering firm who knew about weaving asbestos or could tell him what equipment or machines to buy in order to start weaving asbestos. Anybody who qualifies please contact us.

¶ We understand that the new plant to be erected by the Keasbey & Mattison Company at Santa Clara, Calif., for the manufacture of Asbestos Cement pipe will be started within the current year, 1952. The plant will have an area of over 75,000 square feet. The designing of new machinery is well under way.

¶ While the value of gold produced in 1951 showed a decrease of £255,537 compared with 1950, the value of base mineral outputs increased by £1,730,584 to a total for 1951 of £8,969,878. Asbestos heads the list with a total value of £5,452,108 for 77,663 tons of fibre.

¶ Now we hear of "peach colored" Asbestos and have a sample of very beautiful silky material which appears to be anthophyllite. It come from Madagascar.

¶ One of our advertisers is desirous of developing an outlet for Tremolite Asbestos. If anyone is interested we will be glad to give the name of the advertiser.

¶ Science should spend less time studying the origin of man, and more time on what his finish is to be.

¶ The only business that makes money without advertising is the mint. It makes it first, and it's up to us to make it last.

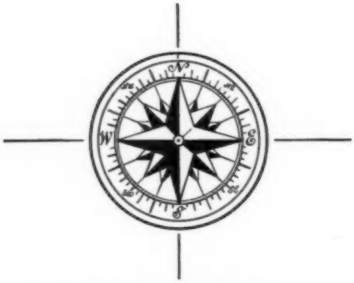
— . . .

"ASBESTOS" prints facts, not superlatives.

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"ASBESTOS" prints facts, not rumors.

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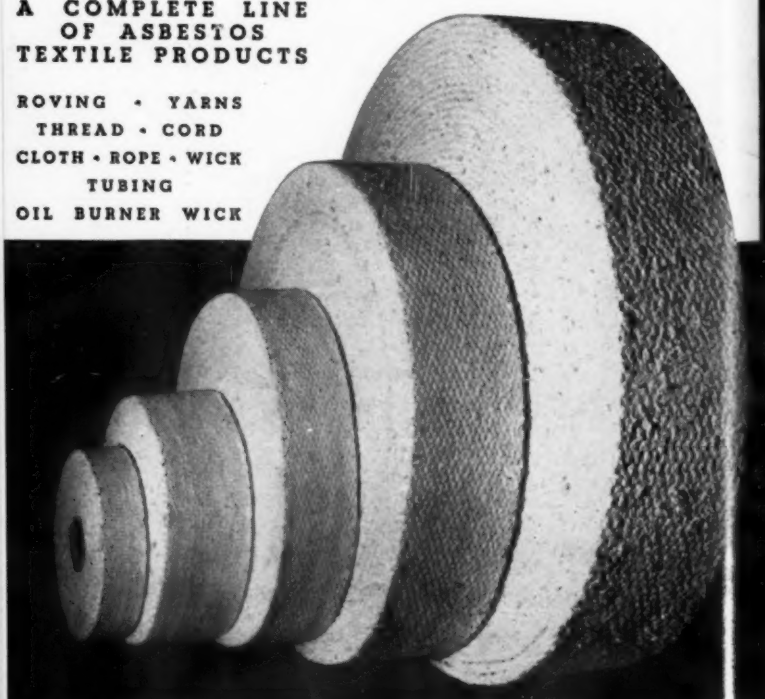
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