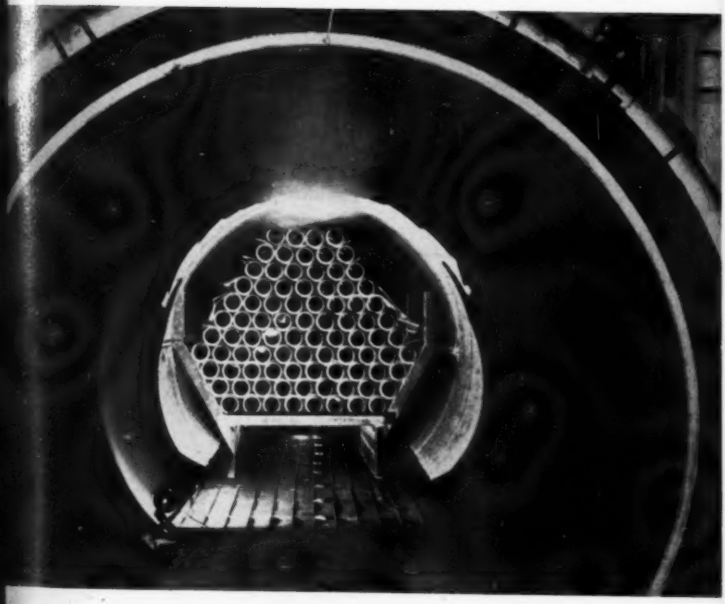
ASBESTOS



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INSULATION

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Ehret Magnesia Manufacturing Co.
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FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

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S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA, 7, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*

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

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Volume 33 AUGUST 1951 Number 2

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THIS PARADOXICAL YEAR

Based on happenings to date we are convinced this year of 1951 will go down in history as one of paradoxes.

The Korean war has see-sawed from one extreme to another. UN forces have pushed forward in an apparently irresistible tide only to be suddenly stopped and pushed back as fast as they previously advanced.

Despite our recent bitter experiences limping along with badly worn automobiles and similar durable goods during the past war and despite the extremely high national income over the past few years we are witnessing a severe let down in sales of all types of consumer goods.

The steel industry continues to operate at levels in excess of theoretical capacity, yet interim reports of some of the largest producers indicate substantially reduced profits as compared with the first half of last year.

Some highly respected steel executives have publicly predicted a surplus of steel as early as the fourth quarter of this year. Yet many fabricators armed with high priorities or CMP allotments find it difficult to place orders for their requirements, and are still dependent on foreign sources or "conversion" steel to keep their production lines running.

In the face of probably the most bearish general sentiment since the end of World War II, the stock market has recently snapped out of the summer doldrums and moved upward at a lively clip.

Early this year there was a general sense of urgency about our conversion to military production. Everyone seemed agreed that we must rearm with the greatest speed. Today this feeling of urgency seems, in many quarters, to have been replaced by one of apathy.

What are the reasons for these seeming paradoxes? Frankly we would not presume to attempt a complete explanation of any or all of them. However, in view of the few singled out above and the myriad of similar cases which have occurred and are occurring every day, it is little wonder that *Mr. Average Man* is, to put it mildly, slightly bewildered.

In fact we wonder if paradoxes don't occur becaus

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ome or all of us are more than slightly bewildered. How an we expect the little man to keep his head and behave ationally in a situation where his elected leaders and their ppointed deputies seem unable or unwilling to agree on set of policies which make sense, are compatible, and are f sufficiently broad scope to permit all of us to live under hem in a reasonably normal manner.

We feel that confusion exists in the minds of many f us because we need a convincing demonstration of lead- rship that can be trusted. We cannot successfully go thru he economic and social dislocations that lie ahead unless ve all know where lies our goal and by what means we in- end to reach it. Once the path is charted and we have ome concrete examples indicating a sincere intention of ollowing that course, barring unpredictable changes in he world situation, we believe the days of paradoxes will e past and with renewed confidence we can, individually, nd as a nation, put aside our fears and uncertainties and concentrate our energies on attaining our all important goal.

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PRODUCTION OF CROCIDOLITE or BLUE ASBESTOS IN SOUTH AFRICA

*By W. E. Sinclair, M.I.M.M.**

(This is the second part of the article on this subject; the first was published in our July 1951 number.)

MILLING. The process of extracting the asbestos from the rock which encases it has been the subject of much study in the Cape field for some 15 years. Previously mechanical extraction was not successful, mainly because of the extreme hardness of the rock. For this reason, the fibre suffered considerable attrition in the crushing process, resulting in a poor recovery of the longer grades. The wear and tear mechanically on the early plants was found to be excessive.

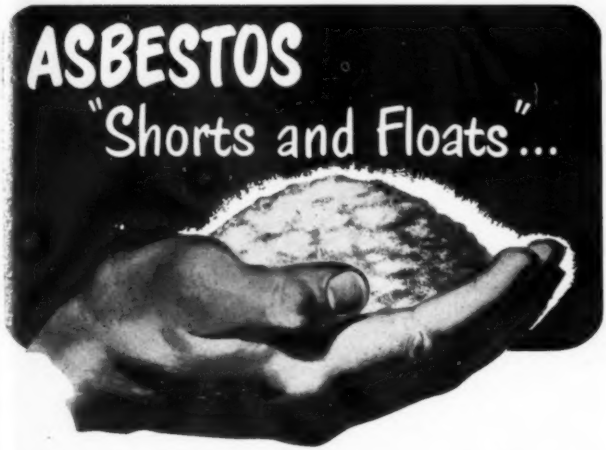
Later experiments to overcome these difficulties ended finally in the development of an unorthodox system of treatment which has become fairly general practice on the field. The extreme hardness of the ironstone and practically common specific gravity of the gangue and the fibre, plus the persistent tendency for the fibre to embrace and carry grit and dust particles with it, made it clear that normal, conventional milling systems were unsuitable.

Altho fibre conditions vary considerably in different parts of the field and milling design must be adjusted to suit the changing physical character of the ore, except in the milling of short fibre, the general principle is the same.

After knapping, the ore is first broken down by means of a primary jawcrusher. Secondary crushing is effected by granulators or gyratory crushing units, and finally the product is subjected to fine crushing by means of highspeed crushing rolls. Fine dust is extracted at every point in the process before the product is fed to fiberizers. Fine grit is removed by passing the material thru trommel screens for the recovery of the various fibre grades.

Intermediate screening is so arranged to remove fine gangue but to retain the asbestos which is gradually fluffed up without being excessively beaten to cotton

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helping hand for many products

Because of their unique fibrous and mineral nature, asbestos "shorts" and "floats" have become important ingredients in an ever-increasing variety of products. To many, these forms of asbestos add strength and durability. To others, they serve as fillers or conditioners. And to still others, asbestos "shorts" and "floats" add valuable heat-resistant and frictional properties. A few typical products . . . paints, moulded plastics, brake linings, asphalt floor tiles, gypsum joint sealers, lubricating greases, welding rods, auto underbody coatings.

If you would like to know more about the various uses, properties and classifications of these versatile forms of asbestos, write for brochure AFD-4A.

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wool. The speed of the final fiberizer is adjusted to avoid excessive abrasive action that tends not only to break the fibres, but to create an "overmilled" condition in the asbestos which makes it difficult to grade and is not generally acceptable to manufacturers.

Trommel screening has found great favor in most "blue" mills, but eccentric-drive shaker-screens, preferably fitted with a variable throw control, which allows for suitable adjustment to ensure efficient screening, are sometimes found to be more efficient, depending on the class of ore being treated.

A system of standardization of grades of fibre, according to length and quality, was introduced by the Cape Asbestos Company some years ago and this system is still generally followed.

In order to produce the long fibre grades, in a crude unmilled form, hand-cobbing is still widely practiced and most fibre over ¾" in length is produced by this method. Figure 4 is a typical picture of the native women engaged in hand-cobbing operations.



Figure 4

Transvaal Field

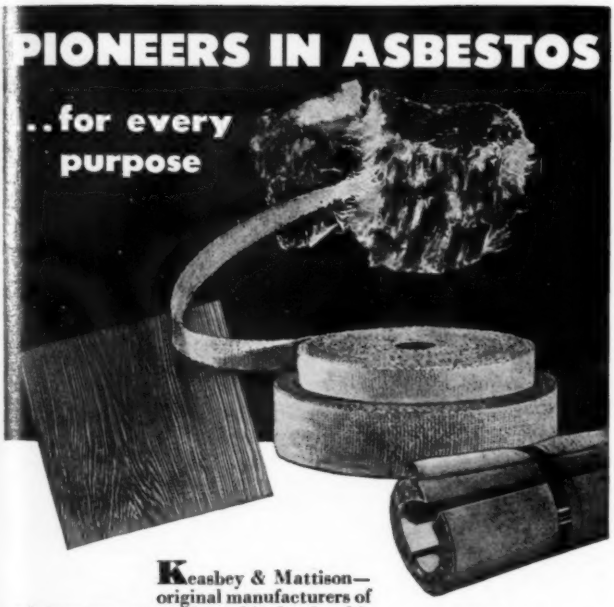
The crocidolite asbestos occurs as cross-fibre seams interbedded in the regularly stratified banded ironstone in a similar manner to that described in the Cape field. Indeed, the hornblende type of asbestos is almost exactly the same, which would, of course be expected, since it occurs in the identical geological formation, known in the Transvaal as the Pretoria Series, as already explained.

This series extends for about 60 miles from the south of Pietersburg eastwards to within 50 miles of Lydenburg

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in the west. In the eastern end of the belt, amosite asbestos, occurring in the same formation, predominates. In the western end, amosite occurs associated with the Blue in some localities, but crocidolite is more strongly developed and particularly in the Malips Valley area, some 40 miles from Pietersburg.

The more or less mountainous topography of this field assists considerably in the exploration and mining of the asbestos "reefs", which mostly dip into the hills at fairly steep angles of inclination, altho there are places where the angle of dip drops to under 30 degrees, and is even nearly horizontal in places.

MINING. The general high reef of the countryside on which the asbestos seams outcrop, quite naturally encouraged open-cut workings along all the exposures in the initial operations, and, for some considerable time, all ore was mined by tributors in this way. The tributors were paid for their labor on fibre recovered after milling. Consequently, all ore mined was carefully knapped and reduced to a comparatively clean, crude condition before delivery to the mill. (This practice had some bearing on mill design on this field.)

Within the last few years, underground mining with adit outlets has been introduced. Compressed air drills are now extensively used and an open-breast stoping system is fairly common practice. Typical conditions of open stoping, as indicated in the picture, Figure 5 are not unlike some of the Cape Mining areas, except that there is generally an absence of the

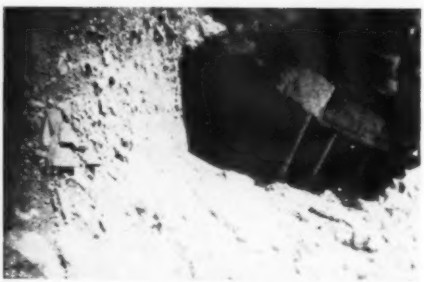
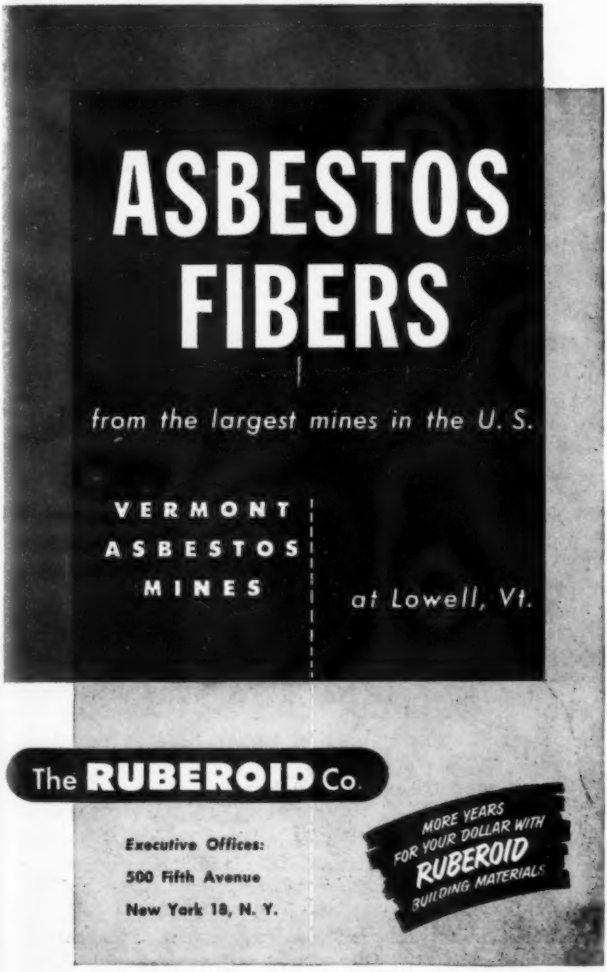


Figure 5

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intense folding and faulting which is so common in parts of that field.

MILLING. As already pointed out, the crocidolite asbestos in the Transvaal field occurs in a similar rock formation to that in the Cape field and the similarity, therefore, suggests a common genetic origin. There are essential differences, however, both in the physical characteristics of ore and fibre. Also, the fibre in the Transvaal deposits is generally shorter. It is lighter in color and mostly of inferior quality. There are deposits, however, where fibre of very good quality and up to 1¼ inches in length has been found.

Milling methods were originally designed to treat the clean, knapped, crude ore delivered by the tributors, and some of the early mills were also used to mill ore carrying amosite alternatively with blue asbestos, on different days. For this reason, there was little attempt to grade the milled fibre.

In recent years, however, grading by length has been fairly generally instituted altho mill design has not been altered materially from the principles indicated on the simple Flowsheet shown in Figure 6. This design aims at immediate fiberization of the crushed, crude in hammer mills. All short fibre is then removed with fine dust and grit thru screens, and all plus fibre remaining on the screens is removed by aspiration and finally graded on screens or thru revolving trommels.

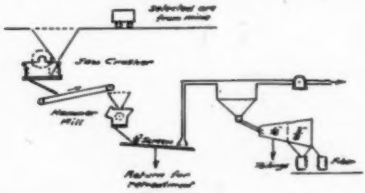


Figure 6

Conclusion

As the premier producer of Blue asbestos, in an age in which industry demands more and better grades, the Union of South Africa is likely to develop her enormous crocidolite resources at an ever increasing tempo. The only essentials to efficient and economical achievement of this program is the immediate exploration and develop

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UNION ASBESTOS & RUBBER COMPANY

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ment of future reserves and the build-up of modern scientific mining and milling methods to produce high quality grade fibre.

BUILDING

Another construction record was smashed when contracts awarded in the 37 states east of the Rockies for the first six months of 1951 reached an all-time high of $8,808,109,000 according to F. W. Dodge Corporation.

The new record figure for six months was 29 per cent greater than the nearest comparative total of $6,854,148,000 set during the first half of 1950.

This, despite a drop in June of 45% from May's all-time monthly record total of contracts awarded. The June figure was $1,408,932,000 compared with the monthly record-smashing May total of over $2.5 billion. The June 1951 total was still high enough to be 5% ahead of the total for June a year ago, according to Dodge.

The first six months of the current year showed all categories, non-residential, residential and public and private works and utilities, percentagewise out in front of 1950, but residential classifications began to show earmarks of defense-limited construction.

With new manufacturing buildings leading the way with awards for six months this year of over $2 billion, which was 306% ahead of the comparative 1950 figure, the non-residential group registered a 77% increase for six months 1951 over 1950. The total was $4 billion plus, compared with $2 billion plus last year.

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MARKET CONDITIONS

The business situation continues much the same as during the past few months; but with the possibility of cease-fire in Korea the international situation may change overnight.

ASBESTOS — RAW MATERIAL.

The demand for all grades of asbestos continues at a high level. The ease off in grades largely used for shingles is offset by requirements from other quarters. Spinning fibres are in under supply and will probably continue so during the peak demand for textiles. Shorts for building materials, particularly floor tile, have gone back almost to their previous level. Production is at a maximum.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. Demand for all types of asbestos textiles continues, it being greater for asbestos cloth than for other types. It is felt that the demand will remain more or less consistent, and a possibility exists for an even heavier call for certain types.

Brake Lining. The Brake Lining business continues good, sales running about 50% ahead of the same period last year. Equipment sales held up well during the first six months. Replacement sales should continue at the same high level for the last six months.

Asbestos Paper. The situation in this market is extremely slow, but demands are expected to increase before too long. *Saturated Paper* shows a slight falling off but demand still equals production. Requirements are expected to take up production for the balance of the year.

Asbestos Millboard. At present this market is slow but is expected to improve in the near future.

Insulation. High Pressure. Good demand continues to exist for high pressure insulation. Producers' backlog is not as heavy as it was some months ago as they have been operating at capacity. It is felt that the demand is reasonably constant and a decreasing backlog is not indicative

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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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of the general situation. It is believed that sales will increase during the last half of the year.

Insulation. Low Pressure. The market for these products remains slow, but an increase is expected shortly.

Asbestos-Cement Products. The market for shingles, roofing and siding has improved because of requirements for Government projects, and is expected to increase still further in the fall.

The call for corrugated and flat sheets still far exceeds production and there is a considerable backlog of orders. It is anticipated that high demand will continue for the balance of this year.

Asphalt Tile. The market is strong at present with every indication that the heavy demand will continue at least for several years. This will, however, continue to be seasonal following the past pattern of building—up to a peak during summer months and gradually declining in the late fall. The long-term outlook for this rapidly growing industry continues to be bright with every prospect of reaching the one billion square foot mark within the next decade.

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

• • • —

PORTUGAL. Small quantities of low-grade asbestos reported to be suitable only for insulation are produced near Braganca in the northeast and Portalegra in the east-center, both being close to the Spanish border. Production rose from 101 metric tons in 1949 to 271 tons in 1950. The declared export returns of the American Consulate in Oporto indicated that 32,245 kilograms of Portugese asbestos was exported to the United States in 1950.

• • • —

An interesting article "The Story of Asbestos Cement Siding" appears in the June number of The National Roofer. It is illustrated with before and after pictures and sketches.

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ASBESTOS

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PRODUCTION STATISTICS

Union of South Africa

(Quarterly Information Report—Dept. of Mines.)

Tons — 2000 lbs.

	4th Quarter (October, November, December 1950)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	10,315	366	£ 9,848	11,103	£ 385,993
Anthophyllite	....	....	....	....	....
Chrysotile	4,349	318	£11,965	2,697	£ 183,07[illegible]
Cape Blue	3,777	421	£19,350	3,103	£ 226,25[illegible]
Transvaal	4,142	69	£ 3,223	3,433	£ 223,48[illegible]
	22,583	1,173	£44,386	20,336	£1,018,80[illegible]

Africa (Swaziland)

Production for June 1951 ..... 2,750 tons (2000 bs.)

Canada

(Department of Mines, Province of Quebec)

Tons — 2000 lbs.

Production May 1951 ..... 90,89[illegible]

Compared with May 1950 ..... 71,74[illegible]

Dominion Production for May 1951 is 93,241 tons, a difference of 2,346 tons from the Quebec figure.

Cyprus

(From W. Parry James, A. C. S. M., Inspector of Mines)

	2nd Quarter 1951 Tons — 2000 lbs.		
	April	May	June
Rock Mined	132,206	286,080	240,87[illegible]
Rock Treated	33,752	67,753	58,85[illegible]
Fibre Produced	405	2,581	2,62[illegible]
Fibre Exported	....	1,276	2,21[illegible]

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IMPORTS AND EXPORTS

Imports into U. S. A.
(Figures by Bureau of Census)

	April 1951 Tons (2240 lbs.)
From Canada	63,654
S. Rhodesia	442
Union of S. Africa	1,372
Australia	43
Bolivia	48
Mozambique	27
	65,586
Valued at	*$5,422,374*
By Grades:	
Crude No. 1, Chrysotile, Canada	26
Crude No. 1, Chrysotile, Union of S. Africa	27
Crude No. 2, Chrysotile, Canada	60
Crude, Other, Chrysotile, Canada	1
Crude, Other, Chrysotile, Union of S. Africa	127
Crude, Other, Chrysotile, S. Rhodesia	317
Crude, Blue, Bolivia	48
Crude, Blue, Australia	43
Crude, Blue, Union of S. Africa	375
Crude, Amosite, Mozambique	27
Crude, Amosite, Union of S. Africa	843
Crude, Amosite, S. Rhodesia	125
Textile Fibres, Chrysotile, Canada	1,300
Shingle Fibres, Chrysotile, Canada	7,880
Paper Fibres, Chrysotile, Canada	8,267
Other Fibres, Chrysotile, Canada	46,120
	65,586

Manufactured Asbestos Goods:	April 1951 Quantity (lbs.)	Value
Asbestos Yarn		
Canada	1,027	$ 85
United Kingdom	60,078	37,30
Asbestos Packing — Fabric		
Canada	1,367	96
United Kingdom	1,589	1,16
Asbestos Packing — Not Fabric		
United Kingdom	4,617	2,61
Asbestos Woven Fabrics — Other		
Canada	7,459	6,48

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SAN FRANCISCO, CALIF. ..... LIPPINCOTT CO., INC.
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Manufactured Asbestos Goods:

	April 1951 Quantity (lbs.)	Value
Asbestos Brake Lining (Mld)		
Canada	188	56
Mexico	4,550	1,724
United Kingdom	440	223
Asbestos-Cement Products (Not Impreg.)		
Canada	247,970	10,113
Mexico	371,194	22,167
Cuba	1,904	184
Asbestos-Cement Products (Impreg.)		
Canada	35,453	3,144
France	3,920	252
Asbestos Shingles (Not Impreg.)		
Canada	60	5
Asbestos Manufacturers — Others		
Canada	....	418
Germany		145
Italy	5,537	204
	747,353	$88,025

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	April 1951 Tons (2240 lb.)	Value
To Canada	4	$ 1,315
United Kingdom	18	9,000
South America	569	163,743
Europe	166	30,836
Other Countries	459	106,892
	1,216	$311,786

Manufactured Asbestos Goods:

	April 1951 Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	342,282	$ 39,065
Asbestos Textiles and Yarn	Lbs.	78,849	57,67[illegible]
Asbestos Packing	Lbs.	109,691	126,92[illegible]
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs.	547,903	456,80[illegible]
Asbestos Bk. Lng. (Woven)	Lin. Ft.	117,229	63,26[illegible]
Asbestos Clutch Facings	No.	151,216	82,99[illegible]
Asbestos Brake Blocks	Lbs.	56,053	60,19[illegible]
Asbestos Construction Materials	Lbs.	2,492,727	248,34[illegible]
Asbestos Manufacturers—Other		....	53,79[illegible]
			$1,189,06[illegible]

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Exports from Canada
(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	Tons (2000 lbs.)	Value
Crude		
United States	99	$ 91,511
United Kingdom	....	....
South America	....	....
Central America & Mexico	....	....
European Countries	28	21,367
Other Countries	....	....
	127	$ 112,878
Milled		
United States	17,282	2,463,362
United Kingdom	2,532	373,791
South America	1,465	301,522
Central America & Mexico	530	94,578
European Countries	4,896	837,236
Other Countries	3,187	512,326
	29,892	$4,582,815
Shorts		
United States	52,666	2,629,797
United Kingdom	1,930	77,620
South America	150	10,766
Central America & Mexico	100	6,162
European Countries	3,291	213,016
Other Countries	929	67,610
	59,066	$3,004,971
Grand Total — Unmanufactured Asbestos	*98,085*	*$7,700,664*
Manufactured Asbestos Goods:		
Brake Lining		$ 61,752
Packing		....
Other Materials		28,107
		$ 89,859

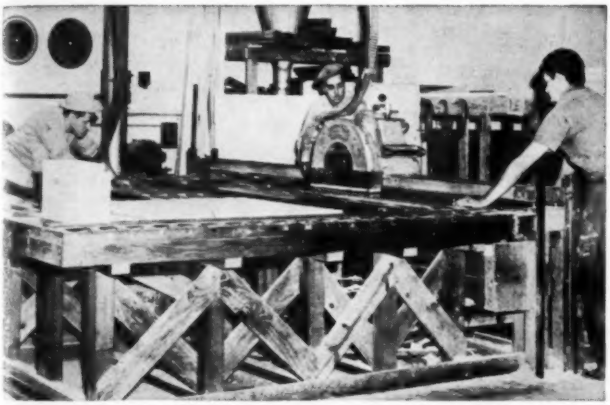
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A. W. Gentner - Verlag, Stuttgart
Germany

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FAST, LOW-COST WAY for Cutting ASBESTOS PRODUCTS

Pictured is one of the two Stone Saws cutting ebony asbestos dry in the plant of the Ladden Asbestos Co., Brooklyn, N. Y. A typical operation is fast, clean cutting of 1½" ebony asbestos at the rate of 20 feet a minute or better.

You can reduce YOUR asbestos products cutting costs with a Stone Saw. Write today for further information.

STONE MACHINERY CO.

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

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Imports of Asbestos by United Kingdom

Raw Material

	June 1951 Tons (2240 lbs.)
From Union of South Africa	1,681
Southern Rhodesia	3,484
Bechuanaland, Basutoland & Swaziland	1,226
Canada	4,877
Other Commonwealth countries and and the Irish Republic	....
Foreign countries	6
	11,274

Of this 11,274 tons, 4,098 were chrysotile, and 7,176 other varieties. These figures were supplied by the Mining Journal Limited of London.

WAGE RATE CHANGES

Wage rate changes for Asbestos workers (pipe and boiler coverers) as reported in the July number of the Asbestos Worker (published quarterly by the International Association of Heat and Frost Insulators and Asbestos Workers) are as follows:

Akron, Ohio	$2.62½	Manitowoc, Wisconsin	2.20
Appleton, Wisconsin	2.20	Milwaukee, Wisconsin	2.47½
Baton Rouge, La.	2.52½	Minneapolis, Minn.	2.55
Beaumont, Texas	2.61½	Mobile, Alabama	2.50
Boston, Mass.	2.69½	Nashville, Tenn.	2.47½
Charleston, S.C. (Navy Yard)	1.74	New Orleans, La.	2.52½
Charlotte, N.C.	2.33	Oak Ridge, Tenn. (Clinton Engr. Works Maint. only)	2.03
Columbia, S.C.	2.33¾	Omaha, Nebr.	2.53
Columbus, Ohio	2.61½	Pascagoula, Miss.	2.50
Connecticut	2.56	Port Arthur, Texas	2.61½
Denver, Colo.	2.47½	Sacramento, Calif.	2.58½
Duluth, Minn.	2.25	San Francisco, Calif.	2.58½
Galveston, Texas	2.61½	South Bend, Ind.	2.47½
Greensboro, N.C.	2.33	St. Paul, Minn.	2.55
Greenville, S.C.	2.33¾	Texas City, Texas (Carbide Carbon Chem. Corp. Maint. only)	2.30
Houston, Texas	2.61½	Washington, D.C.	2.75
Indianapolis, Ind.	2.64	Wausau, Wisconsin	2.20
Kansas City, Mo.	2.61	White Plains, N.Y.	3.02½
Laramie, Wyo.	2.47½	Wood River, Ill. (Oil Refinery only)	2.22
Lawrenceburg, Ind. (Distillery Plant Workers)	2.24½		
Madison, Wisconsin	2.47½		

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Mundet Cork Corporation

Insulation Division, 7101 Tonnelle Ave., North Bergen, N. J.

Mundet district offices are located in these cities:

ATLANTA
339-41 Elizabeth St., N.E.

BALTIMORE 30
612 Battery Ave.

BOSTON
57 Regent St., N. Cambridge 40

CHARLOTTE 3, N. C.
507 S. Cedar St.

CINCINNATI 2
427 West 4th St.

DALLAS 10
601 Second Ave.

DETROIT 21
14401 Prairie Ave.

HOUSTON 1
Commerce and Palmer Sts.

INDIANAPOLIS 4
15 E. Washington St.

JACKSONVILLE 6, FLA.
300 E. Bay St.

KANSAS CITY 7, MO.
1401 St. Louis Ave.

KNOXVILLE
1221 Grand Ave.

LOS ANGELES
(Maywood): 6116 Walker Ave.

In Canada:
Mundet Cork & Insulation, Ltd., 35 Booth Ave., Toronto

NEW ORLEANS 16
315-25 N. Front St.

NEW YORK 17
331 Madison Ave.

PHILADELPHIA 39
856 N. 48th St.

ST. LOUIS 9
3176 Brannon Ave.

SAN FRANCISCO 7
440 Brannon St.

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"TECHNIQUES OF PLANT MAINTENANCE-1951" Published by Clapp & Poliak

An extensive discussion of recent developments in problems of plant maintenance, "Techniques of Plant Maintenance—1951", has just been published by Clapp & Poliak, Inc., the management of the Plant Maintenance Show held in Cleveland last January. The new volume is a companion piece to "Techniques of Plant Maintenance—1950", and contains the proceedings of the Plant Maintenance Conference held in conjunction with the show.

The new volume, however, is printed and bound instead of mimeographed. Last year's book went thru two editions and was out-of-print two weeks after its publication had been announced.

More than forty nationally known experts in the field of maintenance contributed papers. The book contains 228 pages, 8½ x 11", and is illustrated with 48 tables, diagrams, illustrations, graphs and charts. One of the features is a series of questions and answers submitted after each of the 12 sessions. In all, 544 questions put to the speakers are answered. The book is bound with cloth over board and has gold-stamped titles.

It is available from Clapp & Poliak, Inc., 341 Madison Ave., New York 17, N.Y., postpaid for six dollars.

Subjects covered include preventative maintenance, inspection procedures and frequencies, records and reports, training personnel for maintenance, organization and management for maintenance, maintenance costs, incentive payment of maintenance workers, planning and scheduling maintenance operations, applied lubrication in industry, housekeeping, painting and decorating, floors and standards of sanitation.

Additionally, there are specialized discussions on maintenance of electrical equipment, power plant and heating equipment, problems of the small plant, selection and maintenance of lighting equipment, maintenance in chemical plants, in paper and paper products plants, in food processing plants, and in metal working plants.

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Engineering Service Units In Principal Cities

PABCO

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THE TWELVE ESTIMATING TABLES

Our book list (see page 50) mentions Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, $1.00 per set.

These tables have been found very useful by estimators in figuring areas, and very likely many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list:

Sq. Ft. Areas of Pipe Covering.
Mean Sq. Ft. Areas Standard Screwed Fittings.
Mean Area Standard Weight Flanged Fittings.
Standard Weight Flange Areas, Permanent Type.
Standard Weight Flange Areas, Removable Type.
Figuring Hair Felt, 1", 1½", 2".
Anti-Frost Insulation.
Cork Pipe Covering, Outside Area in Sq. Ft.
Ice Water Thick Cork Moulded Fittings Screwed. Outside Area in Sq. Ft.
Brine Thickness Cork Molded Fittings, Screwed. Outside Area in Sq. Ft.
Special Thickness Cork Moulded Fittings, Screwed. Outside Area in Sq. Ft.
Ducts and Flue Perimeters.
The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt.

• • • —

The first six months of 1951 were the highest in sales in the 49 year history of American Brake Shoe Company, William B. Given, Jr., chairman reported in the semi-annual report recently sent to stockholders. Net earnings were 3,779,934 compared with 2,529,800 in the same period of 1950. Shipments for the first six months amounted to $77,593,722 compared to $46,489,716 for the same period of 1950. Shipments of $39,848,528 in the second quarter were an increase of $2,103,334 over the preceeding quarter. Unfilled orders reached an all-time peak of $62,700,000 in April and receded slightly to 60,000,000 as of June 30th.

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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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NEWS OF THE INDUSTRY

BIRTHDAYS

Herbert E. Smith, Chairman, United States Rubber Co., New York City, August 16.

C. B. Pooler, Vice President, Philip Carey Mfg. Company, Lockland, Cincinnati, Ohio, August 18.

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

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

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

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

F. P. Kuchenbecker, President, Asbestos & Magnesia Materials Company, Chicago, Ill., August 23.

H. W. Davis, General Sales Manager, Asbestone Corporation, New Orleans, La., August 25.

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

George Robinson, Secretary, Johnson's Company, Thetford Mines P. Q., Canada, August 30.

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

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

W. D. Pardoe, Vice President, Thermoid Company, Trenton N. J., September 8.

Abbott Coburn, President, Globe Rfg. Products Company, Whiting, Indiana, September 9.

Pierre E. Donellon, Vice President, Charge on Construction, Tilo Roofing Company, Stratford, Conn., September 9.

K. R. MacDonald, Director of Purchases, The Ruberoid Company 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 good wishes on the occasion of their birthdays.

• • • —

PABCO PRODUCTS INC.

Board Appoints New Company Officers

The Board of Directors of Pabco Products Inc., approved two changes in the list of officers.

Andrew S. Halley, who has been Treasurer since July 1945, was appointed Vice President and Treasurer. *M. C. Headrick*

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

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TELEPHONE—VANDERBILT 6-1477

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was appointed Controller of the company. Mr. Headrick has been in charge of factory accounting.

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

At the annual meeting of the Friction Materials Standards Institute, Inc., held on June 21, 1951, the members elected the following officers for the year starting July first:



F. A. Miller

President—Franklin A. Miller, Raybestos-Manhattan, Inc.

Vice President—Frederick C. Weyburne, Marshall-Eclipse Division.

Treasurer—Vincent A. Spina, Scandinavia Belting Company.

Secretary—Miss Harriet G. Duschek.

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

George E. Ritter—Molded Materials Division.

Frank Barton—Rossendale-Ruboil Company.

Amor P. Smith—Russell Manufacturing Company.

William A. Blume—Asbestos Manufacturing Company.

Joseph G. Brown—Grizzly Manufacturing Company.

CAREY SEMI-ANNUAL REPORT

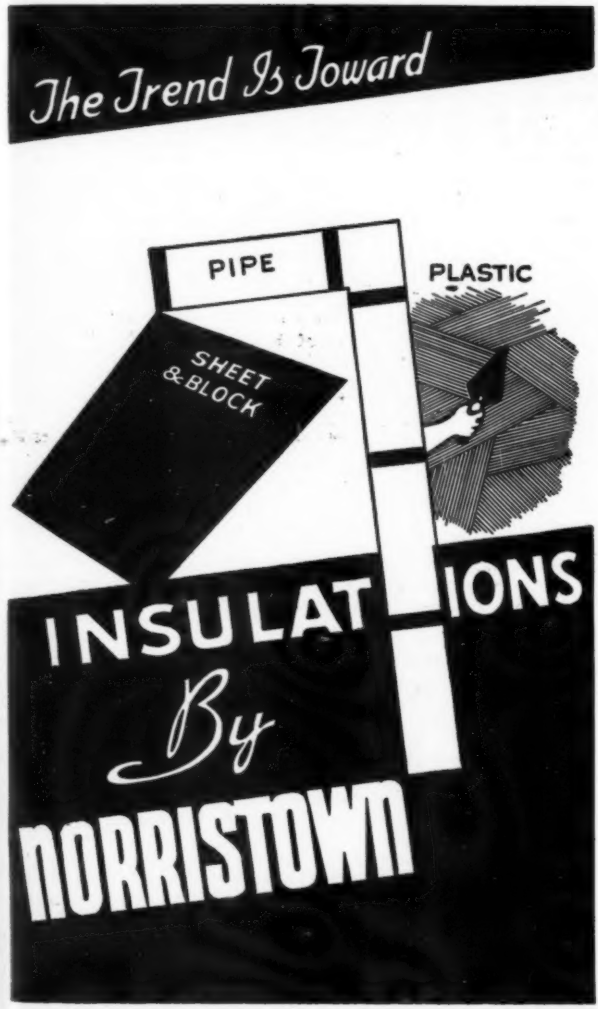
Report for the six months ended June 30, 1951 was issued on July 24th by the Philip Carey Mfg. Company, and gives the following figures:

Sales 1951	$28,761,609
Compared with same period in 1950	20,976,915
Net earnings after income taxes—1951	1,702,756
Compared with same period in 1950	1,399,509
Earnings per common share	2.07
Compared with same period in 1950	1.69



Carey's Houston Plant of their Ascot Division, acquired in March of this year, for the purpose of better serving their customers in the south and southwest. The plant uses the "Mustang" trademark and produces asbestos-cement siding shingles. They plan to also produce, at this plant, a complete line of asphalt shingles, roll roofing, and related building materials made of asphalt and felt.

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ANNUAL REPORT OF
Cyprus Asbestos Mines

The 1950 report of W. Parry James, A.C.S.M., A.M.I.M.M. Inspector of Cyprus Mines, has been received and we quote that part concerning the asbestos mines:

The Amiandos asbestos mine situated at a height of 4,500 feet on the Troodos range, operated thruout the dry season on a considerable scale and a record amount of asbestos fibre was produced. Additional mechanization, improvements in the layout of the quarries, a plentiful labor supply and freedom from labor disputes were, as in the previous year, factors which contributed to the substantial increase in production over recent years. A certain loss of production was caused by some early rain storms. The installation of another large power unit (1,450 B.H.P. Mirrlees diesel engine) in the power plant enabled the primary mills to treat a greater tonnage of raw material.

The maximum number of laborers employed during the working season was 2,741 as compared with 2,410 in 1949. 1,386,050 tons of asbestos-bearing rock were quarried, and nine mills were in operation which treated 420,797 tons of raw material and produced 14,752 tons of asbestos fibre. Comparative figures for 1949 were 1,189,671, 344,130 and 12,358 tons respectively. 15,471 tons of fibre were exported.

There was a heavy demand for all grades of fibre and the market was expected to remain favorable during 1951.

Expenditure on buildings, machinery, plant and equipment during the year amounted to £78,259.

The plant erected two years ago to manufacture asbestos cement sheets for local sale was being replaced by a larger plant which was expected to start work in 1951.

JOHNS-MANVILLE
Second Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the second quarter of 1951 were $6,300,043, compared with $6,172,136 for the corresponding period last year.

Sales for the second quarter of 1951 were $62,677,569, compared with $48,974,526 for the second quarter of 1950.

Earnings per share of common stock were $1.99 for the second quarter, compared with $1.97 for the second quarter last year.

Income and excess profits taxes for the second quarter were $8,628,555, compared with $2,778,455 last year. Income and excess profits taxes for 1951 are computed as if the increases in rates in pending legislation were applied to one-half earnings.

For the year to date (July 18, 1951) sales were $120,331,611, and earnings were $12,593,038, compared with sales of $88,493,577 and earnings of $10,100,687 for the first six months last year.

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ASBESTOS FIBRE

SOUTH AFRICAN MOST GRADES
SHINGLE FIBRES
CAPE BLUE AMOSITE
BLENDS

A NEW MODERN ASBESTOS PLANT WITH REVOLUTIONARY EQUIPMENT

Your inquiries are invited.

We are specialists in blending and refining fibres for any type of work. Experience with many industries shows better results than using the standard numbers.

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Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

HUMBOLDT 5-2372

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PUERTO RICO ASBESTOS CEMENT PRODUCTS CORPORATION To Install Plant For Manufacture of Asbestos Cement Products

The Puerto Rico Asbestos Cement Products Corporation, Ponce, Puerto Rico, will start installing a plant for the manufacture of asbestos cement products and expect to have it in operation around October of this year. The plant will produce corrugated asbestos cement sheets, flat sheets and hand moulded products. Its capacity will be around 350—42"x8'0" sheets. The plant will use "Ponce" cement and will import Canadian asbestos. The wet machine to be used for the laminating is being manufactured in the States.

ROCKBESTOS ENTERTAINS VISITORS FROM FRANCE

Thirteen representatives of the insulated wire and cable industries of France visited the Rockbestos Products Corporation, manufacturers of permanently insulated wire and cable, as a part of their program of touring American industrial plants in their field.

The visit, one of a series of "Strength for the Free World" programs sponsored by the Economic Cooperation Administration, was the only one in New Haven by the French wire and cable productivity team. They were accompanied by translators and made a tour of the Rockbestos plant under the guidance of B. H. Reeves, vice-president and general manager; W. W. Gaylord, plant superintendent, and Sidney Cohen of the Rockbestos Research Department. Mr. Cohen was able to converse with the visitors in their own language.

Following the tour, the visitors had luncheon in the Cafeteria Conference Room; later they heard a talk on Rockbestos products by H. C. Anderson, vice-president in charge of sales, and saw a Rockbestos motion picture, "Hi-I Today and Tomorrow", describing some of the products manufactured by the company.

During the talks by Rockbestos officials and the showing of the picture in the Plant Conference Room, the visitors used earphones while interpreters translated the proceedings from English to French. The set-up was similar to that used in the United Nations meetings.

A question-and-answer period followed the tour and meetings, with the visitors expressing special interest in the company's employee relations activities.

STATE ASBESTOS PROSPECTING IS OKd FOR U.S. AID By Defense Miner's Administration

The Defense Miner's administration has launched a $3,735,385 prospecting program in 14 states, mostly in the West. It has signed contracts for 48 mineral exploration projects.

The approved projects include: The Ruberoid Company, the Flintkote Company, and the Philip Carey Mfg. Company, all in Orleans County, Vermont.

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ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of Asbestos Fibres of All Varieties

of

RAW ASBESTOS

for

Every Use

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CHRYSOTILE
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Large Capacity Fiberizing and Grading Plant

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CAROLINA ASBESTOS CO. APPOINTS
M. P. Turner Eastern Representative

C. H. Carlough, President of the Carolina Asbestos Company announces the appointment of *M. P. Turner* as Eastern representative for their company. Mr. Turner has been in the Asbestos Textile Sales Field for approximately 14 years, and is well versed in the use and sale of these products. In 1938 Mr. Turner joined the Sales Force of the original Carolina Asbestos Company and remained with that Company until it merged with the Union Asbestos and Rubber Company.

F. R. SCHUELER DIES IN HIS 67th YEAR

Frank R. Schueler, Vice President of the Asbestos Asphalt Insulation, Inc., of Chicago, Illinois, died on July 10th after a very serious operation.

Mr. Schueler started his career in the general office of the Philip Carey Manufacturing Company at Lockland, Cincinnati, when he was a very young man. He moved up to the position of travelling auditor, then manager of their Atlanta Branch and later Chicago Branch Manager. When the Illinois Philip Carey Company was organized he was made Vice President of that Company. Since August 1938 the Company has been operating under the name of Asbestos Asphalt Insulation, Inc., with offices and factory at 2100 West Fullerton Avenue, Chicago.

Mr. Schueler was well known in the Asbestos Industry and was respected and liked by all.

PABCO REPORT HONORED

Pabco Products Inc. (formerly The Paraffine Companies, Inc.) has just received a "Highest Merit Award" citation for distinguished achievement in annual reporting.

The citation was issued by Financial World magazine in recognition of the excellence of Pabco's Annual financial statement to its stockholders.

In granting the award, the statement was judged as among the most modern from the standpoint of content, typography and format of 5,000 reports examined during 1951.

JOHNS-MANVILLE — "UNEEPAC"
A New Automatic Ring Packing

Johns-Manville has developed a new automatic ring packing called "Uneepac". It is a molded packing and each ring is a complete, self-contained packing unit.

Uneepac is particularly valuable in the design of new equipment and opens the way for many desirable savings. It is designed for maximum sealing efficiency in minimum packing depth so stuffing box sizes can be reduced.

Uneepac is offered in varied compositions to suit different services — water, steam, oil, air, gas, vacuum, etc. It is furnished in sets of endless or split rings. Uneepac is available for shafts ⅝" diameter and up.

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6D, 7.

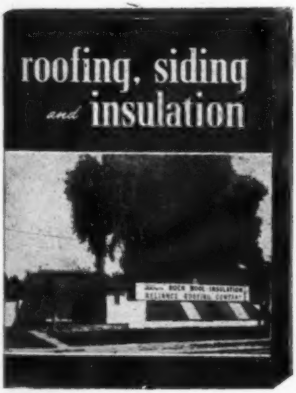
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PABCO PRODUCTS, INC.

H. J. Lilleston on Two Industry & Advisory Committees

Michael V. DiSalle, Director of the Office of Price Stabilization has appointed *H. J. Lilleston*, Vice President, Pabco Products, Inc., as a member of the Industry Advisory Committee on price regulations affecting the Gypsum Industry.

Mr. Lilleston was also made a member of the advisory committee on Hard Surface Floor Coverings recently.

JOHNS-MANVILLE

Floor Tile Production Line at Waukegan

The new million dollar Floor Tile production line at the Johns-Manville plant in Waukegan, Illinois, is now in full operation. This line will increase the output of Johns-Manville Floor Tile by more than 2½ times. This is only the first step in J-M plans for expanding Floor Tile production. They also intend to increase production at Manville, New Jersey, and a West Coast plant is being considered.

The official opening was on June 27, 1951. The guests included 110 Flooring Contractors, 40 J-M Salesmen from Milwaukee and Chicago and all of the company's 14 District Managers. There was a morning tour of the new manufacturing facilities, a luncheon at the Waukegan J-M Club, and an afternoon meeting with talks by R. S. Hammond, Vice President, Johns-Manville Sales Corporation, General Sales Manager, Building Products Division; E. K. Clark, Vice President, Johns-Manville Corporation, Merchandise Manager, Building Products Division; A. K. Higbee, Production Manager, Building Products Division, Waukegan Plant; J. P. Stiger, Commodity Manager, flooring Materials; H. M. Shackelford, Vice President in charge of Sales Promotion and Advertising, Johns-Manville Sales Corporation, and H. R. Berlin.

The morning tour was under the supervision of Mr. Higbee, who described the new Waukegan operation as the most modern floor tile production line in the world. The tour started in the raw material warehouse, where the more than 60 different raw materials which go into various J-M tiles, are stored.

The actual manufacturing operation starts on the third mezzanine of the plant. This is the charging floor. Below, on the second mezzanine, is the mixing operation. Here are located a battery of large 1000 lb. capacity mixers.

The remainder of the production line—milling, calendering, waxing, punching and packaging—is on the first floor.

Thruout the entire line every effort is made to keep the color and physical characteristics constant. Automatic controls are used wherever possible to avoid human error. The temperature and length of time of mixing are automatically controlled. Quantity of marbleizing splash and the amount of milling after the splash application, are controlled by automatic timers.

This new million dollar Floor Tile line is used for the production of both J-M Asphalt Tile and J-M Terraflex, the plastic

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asbestos floor tile. The Asphalt Tile is produced in 21 different colors and the Terraflex Tile in 12 colors.

ARMSTRONG CORK COMPANY
Purchases Business Assets

The Armstrong Cork Company has purchased the low and high-temperature insulation business assets of the Asbestos Supply Companies of Seattle, Spokane, Tacoma, Oregon and Alaska, and will carry on the business under that name.

The new business will be operated by Armstrong as a district office located in Seattle with branch offices in Portland, Spokane, Tacoma, and Anchorage, Alaska. *A. J. Stream*, formerly General Manager of the Asbestos Supply Companies, will continue to manage the business as Armstrong District Manager located in Seattle. *A. M. Fisher*, formerly Assistant Manager of Armstrong's Building Materials Division New York Office, will now be Assistant Manager at Seattle.

AMERICAN SOCIETY FOR TESTING MATERIALS
Annual Meeting

At the annual meeting of the American Society for Testing Materials held during the week of June 18th at Atlantic City, N. J., the registered attendance was 2277; the 1950 attendance was 2131. The meeting included 615 meetings of technical committees.

Fifty-seven new standards were approved.

Truman S. Fuller, Engineer in Charge of Works Laboratory, General Electric Co., Schenectady, N. Y., was elected President for 1951-1952, succeeding *L. J. Markwardt*, Assistant Director, U. S. Forest Products Laboratory, Madison, Wis., who continues on the Board of Directors as Past-President for three years.

The Fiftieth Anniversary Meeting of the Society—ASTM having been formally incorporated in 1902—will be held from June 23 to 27, inclusive, 1952 at the Hotel Statler in New York City.

ARMSTRONG CORK COMPANY
New Appointments

James W. Liddell has been appointed Manager of High-Temperature Insulation Products of the Armstrong Cork Company.

Mr. Liddell joined the Armstrong organization in 1940 and upon completion of his training he was assigned to the Company's Philadelphia District Office, and later to the Detroit office when he returned from the armed forces. In 1948 he was assigned to the General Office staff of the Industrial Insulation Department. As Manager of High-Temperature Insulation Products, he succeeds F. W. Muller who has resigned.

Warden N. Hartman has been appointed Manager of the Industrial Insulation Department. He will supervise the activities of the Company's Low-Temperature, High-Temperature, and Contract Operations Departments.

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ASBESTOS FIBRE AND TEXTILE MANUFACTURERS ADVISORY COMMITTEE HOLDS MEETING

The Asbestos Fibre and Textile Manufacturers Advisory Committee met on July 17th (See Release NPA 1004) with the National Production Authority, and were informed that the Federal Government is taking steps to develop new United States and Canadian sources of asbestos by assisting Canadian suppliers engaged in expansion projects to obtain the materials needed to boost asbestos mine production. The Defense Minerals Administration is exploring a wide belt of serpentine asbestos running 100 miles thru southern Oregon and northern California.

Since supplies of asbestos from these new sources will not reach United States consumers for a year or more, NPA called upon the industry to accept as many direct defense orders for asbestos as it can fill without crippling delivery schedules for defense-supporting industries.

Navy representatives at the meeting said that the Navy during the next six months will require almost 800,000 pounds of asbestos. It is estimated that the Navy's need represents about 20 percent of all current domestic production of asbestos products. Navy officials were asked to specify only those requirements that are immediate and pressing.

The committee pointed out that many producers of asbestos products are filling only DO-rated orders, for the most part consisting of DO-97's (for maintenance, repair and operating supplies) placed by defense-supporting industries.

However, members said that some relief may result from NPA's recent order limiting passenger car production because asbestos products are used in automobiles. The Committee said that substitute materials developed since World War II have been perfected, and should be utilized by defense agencies as much as possible.

According to NPA officials Canadian producers have been supplying about 700,000 tons of asbestos of all types each year to world markets. During the last five years, the average annual output of textile-length fibre from Canada has been 18,000 tons.

R. H. Coultrap, of NPA's Miscellaneous Metals and Minerals Division presided at the meeting.

JOHNS-MANVILLE CORPORATION

A. K. Higbee Appointed Production Manager

A. K. Higbee has been appointed Production Manager of the Johns-Manville Building Products Division and a Vice President of Johns-Manville Products Corporation.

Mr. Higbee, who will assume his new responsibilities on September 1, 1951, is manager of the Johns-Manville Building Products plant in Waukegan, Ill.

A native of Corning, Iowa, Mr. Higbee joined Johns-Manville in 1928 as a planning engineer at the Waukegan plant. Prior to coming to Johns-Manville, he had been associated with Western

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Electric Company in Chicago as an industrial engineer and with the Armand Company in DesMoines, Iowa.

In 1935, Mr. Higbee was transferred to Johns-Manville's headquarters in New York as a methods engineer, returning to Waukegan in 1937 where he became superintendent of asbestos shingles and superintendent of the asphalt roofing and paper mill. He was made Building Products plant manager at Waukegan in 1946.

In his new post, Mr. Higbee will supervise the production of Johns-Manville building products at the companies plants in Manville, N. J.; Jarratt, Va.; Natchez, Miss.; Marrero, La.; Alexandria, Ind.; Waukegan, Ill.; and Los Angeles, Watson and Pittsburg, Cal.

JOHNS-MANVILLE CORPORATION APPOINTS
New Director of Engineering

Clinton B. Burnett has been appointed Director of Engineering of Johns-Manville Corporation.

Mr. Burnett, who is Vice President of Johns-Manville Products Corporation, was formerly Production Manager of the company's Building Products Division. He came to the Corporation in 1931 as a member of the planning department at the company's Waukegan, Illinois plant, later becoming manager of the industrial engineering department at that location.

After the war, Mr. Burnett became manager of the Engineering Department Methods Section in the Johns-Manville offices in New York City, and in 1946 was made Production Manager of the Building Products Division.

CASSIAR ASBESTOS CORPORATION, LTD.
New Company Added to the Industry

Conwest Exploration Company, Ltd., reports that development on their asbestos property in the McDame area of Northern British Columbia is under way and the Cassiar Asbestos Corporation Limited has been formed with executive offices at 1001 Federal Building, 85 Richmond Street West, Toronto, Ont., Canada. The officers of the newly formed company are: President: Frederick M. Connell; Vice President: W. Harold Connell: Secretary and Treasurer: Charles R. Elliott.

AUTOMOBILE SALES

	June 1951
Passenger Cars	482,027
Motor Trucks	134,811
Motor Coaches	838
	617,676

In June 1950 a total of 856,614 motor vehicles were sold. In the first six months of 1951 the total was 3,889,851.

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

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BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, 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. 25 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 (11 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. Postage stamps acceptable for amounts less than $1.00.

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CURRENT RANGE OF PRICE

As of August 10, 1951

	Per Ton (2000 lbs.) f.o.b. Mine
Canada—	
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	485.00 to 900.00
Group No. 3 (Spinning Fibre)	275.00 to 450.00
Group No. 4 (Shingle Fibre)	135.00 to 151.00
Group No. 5 (Paper Fibre)	95.00 to 119.00
Group No. 6 (Waste, Stucco or Plaster)	70.00
Group No. 7 (Refuse or Shorts)	32.00 to 63.00
Vermont—	
	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.
Group No. 3 (Spinning & Filtering)	$254.10 to $274.45
Group No. 4. (Shingle Fibre)	122.65 to 148.50
Group No. 5 (Paper Fibre)	86.90 to 106.15
Group No. 6 (Waste, Stucco or Plaster)	64.90
Group No. 7 (Refuse or Shorts)	31.20 to 57.60

ASBESTOS STOCK QUOTATIONS

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

		July 1951		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	34½	37¾	37¾
Amer. Br. Shoe (Pfd)	100	102	107	106
Armst. Ck. (Com)	np	52¾	56¾	56
Armst. Ck. (Pfd)	np	94	96¼	95¾
Armst. Ck. (Conv. Pfd.)	np	110¼	115	113
Asn. Corp. (Com)	np	51½	55	55
Asb. Mfg. Co. (Com)	1	1⅜	1⅜	1⅜
Carey (Com)	10	17⅝	18⅞	18⅞
Celotex (Com)	np	15⅜	17	16¾
Celotex (Pfd)	20	16¾	17	17
Certainteed (Com)	1	14⅝	17¾	16⅞
Flintkote (Com)	np	27⅛	29⅜	29⅛
Flintkote (Pfd)	np	96½	101½	101½
Johns-Manville (Com)	np	54½	61¾	61½
Pabco Products (Com)	np	16⅞	19½	19
Pabco Products (Pfd)	100	97	100	99½
Ray-Man (Com)	np	36⅝	37¼	37½
Ruberoid (Com)	np	51½	53	52¾
Thermoid (Com)	1	9⅜	10¼	9¾
Thermoid (Pfd)	50	41	45	44⅛
Union Asb. & Rub. (Com)	5	12½	12⅞	12⅞
United Asb. (Com)	1	102	245	240
U. S. Gypsum (Com)	20	105¼	113½	113½
U. S. Gypsum (Pfd)	100	172½	180	180
U. S. Rubber (Com)	10	56⅜	65½	66⅛
U. S. Rubber (Pfd)	100	128¾	133	132¾

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NEW PRODUCTS FROM ASBESTOS

When businessmen call on R/M research for assistance, the facilities of four different laboratories are immediately at their disposal. For more than half a century, R/M research has continued to develop new products and new uses for asbestos and asbestos textiles. More developments than could possibly be listed in this small space.

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