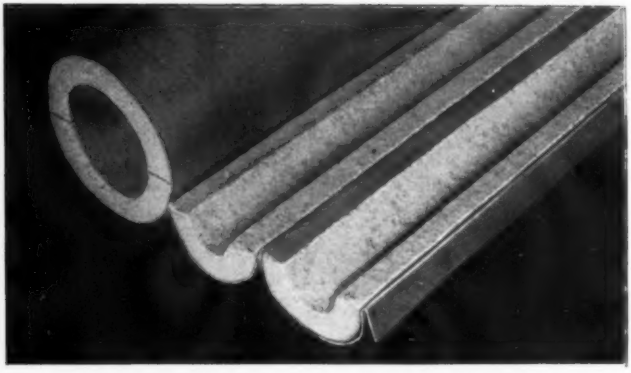
ASBESTOS

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FOUNDED IN JULY 1919 AND PUBLISHED
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A. S. ROSSITER, *EDITOR*

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CHEMICAL CONSIDERATIONS FOR GASKETS

By M. E. Lerner

In a wide variety of industries gaskets are used as a matter of form with little regard as to their makeup, construction or characteristics. In certain industries, however, where the passage of fluids is concerned, such as in the process industries, the chemical properties and reactions of gaskets is most important.

While gaskets are made from other materials than asbestos (rubber for the most part) asbestos gaskets play an important role in many instances.

Where different chemicals and conditions are encountered it is essential to the welfare of the process involved that the gasket selected be made from the proper material. Herein we concern ourselves only with those gaskets made from asbestos materials.

For instance, where acids with a maximum temperature of 212°F. or slightly higher, are used, rubber gaskets compounded from acid-resistant fillers are recommended, for all strengths of hydrochloric acid and for sulfuric acid up to 70% by weight. But where higher concentrations are concerned folded gaskets of fabric woven from blue (crocidolite) asbestos should be used since the chances are that these higher concentrations will char the exposed edges of the rubber types.

A maximum temperature of about 700° F. is usually encountered in the case of superheated water and steam (and superheated aqueous solutions). Compressed asbestos sheet gaskets can be used for boilers, manhole and handhole cover plates, where not too high temperatures are the rule. When the unit pressures and temperatures are not too high, then gaskets of folded asbestos cloth construction with a heat-resistant rubber cement are applicable and widely used. The better type of narrow flange boiler handhole gaskets are made from folded lengths of rubberized seamless, woven asbestos tubing.

Compressed asbestos sheet is the most widely used

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material for gaskets in connection with bolted pipe flanges, folded asbestos fabric gaskets generally being found lacking in crushing strength. Sulfite digesters are usually packed in the same manner as boilers, folded gaskets or compressed asbestos sheet being used. In the latter instance, it is necessary that the rubber compound be acid-resistant, altho the acid involved is not sufficiently strong to require the use of a blue asbestos. Flat folded rubberized asbestos fabric tape, spliced in the field to make a gasket of the required diameter, is generally employed in packing large bolted flanges for hot water or steam service.

Good results have been attained with certain types of compressed asbestos sheet or with folded or rolled asbestos fabric constructions containing a binder of highly resistant rubber compound, where a compressible gasket is required, when mineral oils, tar, creosote, vegetable oils, fatty acids, etc., are concerned at maximum temperatures of 700° F. Untreated asbestos paper has also been used in such cases with satisfactory results. For much lower temperatures, vegetable or cork fibre sheet may be used, but these lose their value at the higher temperatures. Other types of gaskets, such as those of synthetic rubber (Dul'rene, Thiokol, etc.) have also been utilized at the higher temperatures, but the type of asbestos gaskets described is said to have given better results.

In the case of gasoline (also benzine, turpentine, chlorinated solvents, etc.) the best performances have been made by compressed asbestos sheet and constructions of rubberized fabric. The synthetic rubbers have been found suitable, but some of them present other difficulties altho favorably resisting solvents. Hot oils and solvents are two fields where rubber or rubber-bonded gaskets portray their worst weakness and where the need for substitutes is most apparent, a need best filled by the compressed asbestos sheet.

Where air and dry gases are utilized the temperature not to exceed 700° F., two types of gaskets should be used, viz: plain rubber for low temperatures and compressed asbestos sheets or folded asbestos fabric for high temperatures. Metal gaskets are optional for either low

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or high temperatures in this case.

Gaskets for use in cases where liquid chlorine and bromine are concerned present a problem. Few fibrous gaskets, if any, are known to have performed ably with these liquids. It is reported that an asbestos paper treated with certain type of asphalt paint has been used with some success against bromine, but substantial proof is lacking. Metal gaskets may be used with some success if the materials are anhydrous.

These are but a few uses of asbestos gaskets in the process industries. They are sufficient to give the reader a good idea of how important the properties and characteristics of the gaskets are in actual use.

Editor's Note: Many of the recommendations in the above article have been made by the Garlock Packing Company—to which credit is duly given—as the result of laboratory tests.

SOUND DEADENING SCREENS

It has just been announced that noise is to be reduced by 60% in the five and one half miles of subways operated by the London Passenger Transport Board between Golders Green and Camden Town, north London suburbs.

Early in January the Board signed a contract with Willment Brothers of London, for the erection of noise-reducing screens — asbestos sheets behind which is packed special noise absorbing material. Scientific tests have shown that these screens, together with improved rails, result in a 60% reduction in noise. The value of the screen contract is £15,000.

RAW ASBESTOS

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Office and Mines
EAST BROUGHTON, PROVINCE of QUEBEC
CANADA

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TRUTH

An Editorial By C. J. Stover

What *is* the truth?

Recently a columnist writing for a national chain of newspapers launched a vicious attack on the legal profession.

It may be that this writer's knowledge of lawyers was chiefly obtained in the police courts where, notoriously, justice is often thwarted by the nimble witted lawyer's zeal to secure acquittal, regardless of the facts.

But, what are the "facts"?

Put two or twenty people at the site of a crime and no two of them will see the same, testify the same or think the same. Yet they may all be perfectly truthful.

It is the lawyer's real function to see to it that proof beyond legal doubt exists to support the charges laid against his client.

At best, our American form of government represents only the accumulated wisdom of all the ages and rests solidly on the idea of a "government of law, not of men."

Thru all history we find the governments of men have always been supplanted by those of law because men cannot long govern justly, whereas law proceeding from the people, while moving slowly, eventually brings justice.

Without lawyers, no law.

One lawyer said to me, "A crooked lawyer presupposes a crooked client."

The general attack referred to may justly apply to some lawyers, but a general attack might just as fairly be made upon *any* group of Americans. I have met crooked farmers, short weight merchants, soldiering employees, "grandfather is dead" office boys, and so have you. But the greatest argument for the inherent honesty of Americans is to be found in the records of installment buying, self service stores and open account credits.

How anyone can make a general attack on any group in the face of this evidence is beyond me.

Of course we have chiselers in every group. We al-

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ASBESTOS

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For more than three-quarters of a century, Johns-Manville has been manufacturing a large variety of asbestos products, contributing to greater comfort, protection from fire and the more efficient operation of industrial equipment.

Johns-Manville owns and operates Asbestos Mines in Arizona and Canada, thirteen factories located strategically across the continent, sales offices in all large cities and a large, scientifically equipped research laboratory in which J-M Engineers and Scientists are constantly developing new uses for this remarkable mineral, Asbestos.

Some of the better known J-M Asbestos products include: Packings, Insulations, Roofing and Siding, Transite Water Pipe and Electrical Conduit, Office Partitions, Decorative Wall Boards, Flooring and Friction Materials. In addition, Johns-Manville furnishes crude asbestos in a wide range of grades and fibre lengths.

For complete information on J-M Asbestos Products write to any J-M office or distributor.

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JOHNS-MANVILLE JM PRODUCTS

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ways have had and always will have. If any group deserves especial criticism certainly the record of the legal profession clearly shows it to be *un*deserving.

Should it be necessary or advisable to pick out any one group for criticism and outright elimination from our national life, I nominate the politician, regardless of party. And I am *not* a lawyer.

TAXES--

Comment by Herbert Abraham, President of The Ruberoid Co.

In commenting on their annual report for the year 1937, Herbert Abraham, President of The Ruberoid Co. made the following remarks concerning taxes:

It is just and fitting that industrial corporations should pay their full share toward the maintenance of governmental activities soundly designed to restore economic equilibrium in this country, to the end that the tax burden at present required to alleviate distress of individual citizens may be progressively lightened.

In this connection, it would seem reasonable to expect that no effort will be spared by the Government to encourage industrial management to expand and improve factory buildings, purchase new equipment, inaugurate research projects aimed to develop new or better products and reduce costs, and engage in other activities which would have the two-fold effect of putting more men to work and increasing the purchasing power of the nation.

Certain Federal imposts on corporations in effect during the past two years, notably the surtax on undistributed profits, have unquestionably served to hinder such activities. Recent evidences of a growing sentiment in Congress and among the public generally for a revision of the Federal tax structure are encouraging signs in this direction.

One of the best friends a young man can have is a superior who believes in *constructive* criticism.—*The Shaft.*

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K&M best in asbestos

85% MAGNESIA ... HAS EARNED ITS LEADERSHIP



COUNTLESS microscopic "dead air" pockets make 85% Magnesia one of the most efficient heat insulators in existence. It has passed every test so well that 85% Magnesia has become the standard to which the efficiency of other commercial forms of heat insulation is compared.

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AMBLER • PENNSYLVANIA

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KEEPING EMPLOYEES INFORMED

To us has come "The Year 1937 — a Report to all members of the Johns-Manville Organization, by President Lewis H. Brown".

Clearly, completely, convincingly it presents to the jobholder in simple language and with illustrations the functions, costs, profits, assets, etc., of the company.

Very few financial statements are really understood, except by a small number of shareholders. This one is so cleverly designed that anyone "gets" it, quickly and surely. Quite the best we have seen.

The report shows that Johns-Manville employed an average of 11,242 regular jobholders thruout the year, 15% more than in the peak year of 1929. It paid out $20,354,000 in salaries and wages — 26% more than in 1936. Its salesmen brought in 23% more dollars than in 1936, the net sales for 1937 amounting to $60,173,000. The average hourly wage rate increased 11% in 1937 over 1936, 9% above the peak year of 1929 and 30% above the 1933 depression low.

Mr. Brown's report shows that Johns-Manville in 1937 purchased, produced and used $20,311,813 worth of raw materials (which included $2,181,511 worth of asbestos fibre) from which 1,300 types of Johns-Manville products were manufactured.

In addition to information of a strictly financial nature, there is a brief history of the company which traces its growth from a family-owned business to its present widespread ownership by 7,138 stockholders. This reveals that shortly after the death of Thomas F. Manville, President and one of the founders, the son Thomas F. (Tommy) Manville, Jr., disposed of the large holdings which he had inherited from his father, thus ending all connection with the company. H. E. Manville, now Chairman of the Executive Committee and a veteran of 48 years service with the company, is the only member of the Manville family who retains an active interest in the business.

Much other interesting information, written in simple language, or graphically illustrated, is found in the report.

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ASBESTOS

Arizona Crude
Canadian Crude
Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
Rhodesian Crude
South African Blue Crude
South African Yellow Crude

ASBESTOS LIMITED INC.

8 West 40th Street : New York City

Works: MILLINGTON, N. J.

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AKOUSTIKOS FELT

A Specialty adds one more sphere of usefulness to the Asbestos line

Among the special asbestos products which add just one more field of usefulness to the wide variety of services performed by asbestos is Akoustikos Felt, a product of the Johns-Manville Corporation. It is made of asbestos fibres and especially selected hair and is described as being a highly desirable material for use where a flexible sound-absorbent is required. It is not the usual matted felt found in the trade, but a punched felt containing the greater strength necessary for ventilating duct work.

This felt has characteristics which make it particularly desirable in the field of mechanical equipment quieting (including air-conditioning equipment, unit coolers and similar appliances). It is also adaptable to the quieting of office machinery units, such as bookkeeping and tabulating machines. In the latter case its use is simplified, since it can be supplied in die-cut pieces which may be easily installed in the assembly line at the respective factories.

In use, the felt is cemented to the surfaces by acoustical cement and after application, in order to minimize frictional resistance to the air flow, it is advisable to size the surface of the felt lightly with acoustical size. For appearance sake, cloth or muslin may be attached with size to the surface of the felt. The felt is available in rolls 40 inches wide, each roll containing approximately 160 square feet. It comes in five thicknesses: ¼, ⅜, ½, ¾ and 1 inch. Johns-Manville engineers recommend the ¾ inch thickness for best results, altho thinner felt may be used for special purposes where only a small amount of high frequency absorption is necessary.

A series of tests with the ¾ inch felt showed the following results: at a frequency of 128 the absorption coefficient was .08; at 256 it was .23; at 512 it was .48; at 1024 it was .84; at 2048 it was .83; and a frequency of 4096 revealed a coefficient of .79.

Further information will gladly be supplied by Johns-Manville.

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Rhodesian
Transvaal
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Raw Asbestos Distributors Limited

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CABLES:—VULBESTON, LONDON

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ASBESTOS CORPORATION LIMITED

appoints new heads in its Sales Department

The Asbestos Industry thruout the United States will welcome the appointment by Asbestos Corporation Limited, Thetford Mines, of J. A. Marcotte as Sales Director to take over the duties so long fulfilled by the late J. E. Triganne.

Mr. Marcotte is well known to most of the Asbestos buyers in the United States as he has been Division Sales Representative for his Company for the past eight years.



J. A. Marcotte,
Now Sales Director of
Asbestos Corporation Limited
Thetford Mines
(Right)

Mr. Marcotte has been connected with Asbestos Corporation for twenty-five years, having joined the Payroll Department of the Company on March 15th, 1913. He was appointed Chief Accountant in the fall of 1926, and entered the Sales Department June 1st, 1930.



A. L. Penhale,
Sales Manager of
Asbestos Corporation Limited
(Left)

A. L. Penhale, as Sales Manager, will be responsible for the internal conduct of the Sales Department. He joined the Company on December 1st, 1924 as Private Secretary to the Manager. He entered the Sales Department on June 1st, 1930, and has for several years been in charge of the Sales Office.

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THE INSULATION COMMITTEE--

A.S.T.M. Committee C-16 on Thermal Insulating Materials appointed and work planned

Committee C-16[1] of the American Society for Testing Materials, organized at the meeting held in Rochester, N. Y. the week of March 7th, was formed to undertake work in the field of thermal insulation apart from that now being carried out by the Society's Committee C-8 on Refractories. The latter Committee includes within its scope the so-called high temperature insulations; the new committee will work on insulations for use at somewhat lower temperatures, as, for example, in the piping field and similar type industrial insulations. For the time being it is not proposed to include the housing insulations, altho a number of tests applicable to the industrial insulations will no doubt also be of interest in connection with other types of insulation.

The present personnel of Committee C-16 is :

Allcut, E. A., University of Toronto
American Society of Heating and Ventilating Engineers, W. A. Danielson and F. C. Houghten.
American Society of Mechanical Engineers, R. H. Heilman.
Bagsar, A. B., Sun Oil Co.
Carey Mfg. Co., The Philip, H. W. Greider.
Dickinson, H. C., National Bureau of Standards.
Edison Electric Institute, E. T. Cope (temporary secretary).
General Electric Co., R. T. Girard.
Johns-Manville Corp., C. B. Bradley.
Keasbey & Mattison Co., William Morris.
Massachusetts Institute of Technology, G. B. Wilkes.
Owens-Illinois Glass Co., A. L. Simison.
Peebles, J. C., Armour Institute of Technology.
Pittsburgh Testing Laboratory, M. L. Carr.
Plant Rubber & Asbestos Works, J. E. Kennedy.
Queer, E. R., Pennsylvania State College.
Sargent & Lundy, Inc., Andrew LeBailly.
Standard Oil Development Co., B. A. Hollenbeck.
Union Asbestos & Rubber Co., R. E. Cryor.

1 See announcement, Page 15, March 1938 "ASBESTOS".

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U. S. Navy, Officer-in-Charge of Specification Section, Design Division, Bureau of Engineering, and Director, Engineering Experiment Station, Annapolis.
Walker, J. H. (temporary chairman) Detroit, Edison Co.
Westinghouse Electric & Mfg. Co., N. L. Mochel.

It is expected that this personnel will be augmented as the work of the committee gets under way since there is very great interest in this subject. A subcommittee organization will be developed to handle the various tests.

At the organization meeting the committee discussed the possibility of developing tests for the following properties:

Handleability	Shrinkage on drying (plastic materials)
Hardness	Slump (plastic materials)
Abrasive Resistance	Coverage (of plastic materials)
Modulus of Rupture	Adhesiveness (of plastic materials)
Compressive strength	Surface finish (of plastic materials)
Loss of weight	Vibratory tests.
Volume shrinkage	

Mention was also made of the various thermal properties of interest in addition to thermal conductivity, namely, properties such as specific heat, coefficient of expansion, etc. The committee is working in close cooperation with the American Society of Heating and Ventilating Engineers, particularly with respect to the determination of thermal conductivity. The latter organization has been active in this field for a number of years.

The Committee plans to hold a further meeting in June.

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"Tropag" Asbest & Erzimport
Oscar H. Ritter — K.G.
Hamburg · — · Alsterdamm 7

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ASBESTOS

We announce the appointment of

MR. J. A. MARCOTTE

as

SALES DIRECTOR

to succeed the late Mr. J. E. Triganne

and of

MR. A. L. PENHALE

as

SALES MANAGER

ASBESTOS CORPORATION LIMITED

THETFORD MINES, CANADA

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CONTRACTORS AND DISTRIBUTORS PAGE

Building

Contracts awarded for building and engineering work in the 37 eastern states during the month of February amounted to $119,308,000, according to F. W. Dodge Corporation. This was a decline of 37 per cent from February, 1937, and followed a drop in January of 20 per cent from January of last year. Thus the decline of the later months of 1937 has carried thru the opening months of the new year. This is the customary course of a recession like the present one, when many projects are deferred pending assurances of construction cost stabilization, change of general business sentiment, and, in the present case, legislative action.

Residential building undertaken in the 37 eastern states rose 10 per cent during February, 1938 as compared with the preceding month. This gain represents the first break in the series of successive monthly declines for residential building which began last June. Residential contracts for February totaled $40,023,000 as compared with $36,207,000 for January. It is currently reported that preliminary applications for mortgage insurance, both on single dwellings and development projects for sale and for rent, have greatly increased since enactment of the new amendments to the National Housing Act; this may be an indication of increased residential building contracts some weeks hence.

Contracts for private building and engineering work amounted to $67,891,000 in February as compared with $74,630,000 for January. Public construction, on the contrary, dropped sharply from $120,842,000 for January to $51,147,000 for February.

By classes of construction, the February contract record amounted to $40,023,000 for residential building, $48,533,000 for non-residential building, $25,333,000 for public works and $5,149,000 for utilities.

Building permits issued by 58 cities in Canada during February had a value of $2,361,957, an increase of 27.9 per cent over January and 10.4 per cent over February, 1937.

Insulation of Ducts is the title of an article in the March 1938 issue of the Sheet Metal Worker, published at 45 W. 45th St., New York City.

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Thetford Mines, P. Q., Canada

Mines

Thetford Mines, Quebec
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MARKET CONDITIONS

GENERAL BUSINESS

The questions uppermost in the minds of most of us today are "How long will the present recession continue? Will there be any upturn this year?"

Probably no one will definitely know the answers until December 31st, but there does seem to be a feeling among those who make a study of economic trends that there are already signs, slight it is true, that things will turn somewhat for the better sometime during 1938; perhaps along about the third quarter.

It can be noted also that inventories in various lines are getting low — that jobbers' shelves are getting empty —which is a good indication of renewed buying shortly. We get a report of this kind in the Low Pressure Insulation Field — we note the same report in scattered lines outside the Asbestos Industry.

On the other hand there are many factors which certainly do not point to any upward trend very soon and the month of March, which usually shows a decided advance— the beginning of spring buying — has been distinctly disappointing.

ASBESTOS - RAW MATERIAL

Very substantial shipments for Japan have been booked by the Canadian Mines. There is every appearance of a record year in tonnage from all sources, notwithstanding a slight falling off in American demand. Prices remain firm.

ASBESTOS - MANUFACTURED GOODS

Textiles. The Asbestos Textile market shows some signs of increasing in volume, altho the recovery is very slow. Prices continue to remain fairly stable with the same tendency for buyers to hold off placing orders, evidently expecting a decrease in prices. However, less pressure in this direction is indicated as sizable orders have been more frequent within the past several weeks at current prices.

Insulation. High Pressure. Velocity of the decline

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VERMONT ASBESTOS



. . . FREE FROM FOREIGN FIBRES

No wood fibres from riggings — no splinters from railroad ties—contaminate Vermont Asbestos fibres. Every shipment is uniform, pure asbestos fibres—so essential to quality manufacturing. Send for samples and prices.

ASBESTOS FIBRES FOR MANUFACTURING

- Shingles
- Millboard
- Brake Lining
- Clutch Facing
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- Asbestos Paper
- Boiler Coverings
- Moulded Products

VERMONT ASBESTOS CORPORATION

HYDE PARK, VERMONT

Sales Office, 500 Fifth Ave., New York City Mine, Eden, Vermont

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(with Atlas Primer)
can be fastened to all kinds of surfaces including AIR CONDITIONING DUCTS, with **COLD**

ATLAS ADHESIVES
#16, #75, or #20

No wiring or supports of any kind required.
NO HEATING

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SEND FOR FOLDER

in demand seems to be decreasing in this line. Prices are firm. Any increase in volume depends on a resumption of industrial activity which thus far has not been forthcoming.

Insulation. Low Pressure. Some slight increase in demand is noted in this line, attributed to increase in building operations, and to the fact that stocks in jobbers' warehouses are getting low. This of course tends to keep prices firm.

Paper and Millboard. Demand in these two commodities is reported to be rather low — with prices holding fairly firm.

Asbestos Cement Products. Two very interesting reports in this market reach us and we have decided to quote them verbatim. They are not synonomous but show some similarity:

"There seems to be an awakening interest in and some buying of Asbestos-Cement Shingles. Corrugated and allied products are not moving as fast as they were last year; however, the demand is fairly steady. There are indications of an upswing."

"There has been the

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usual seasonal increase in asbestos shingle shipments during the past month over previous months, but shipments still lag considerably behind this time a year ago. This is generally true also of other asbestos-cement products such as corrugated and flat sheets for industrial use, wallboards, tiles and miscellaneous items used in residential construction".

There seems to be an optimistic note running thru all these various comments, which have reached us from executives closely in touch with field conditions. Comments on market conditions in all asbestos lines are always welcome.

CURRENT RANGE OF PRICE
on Canadian Crudes and Fibres

	Per ton (2000 lbs.) f. o. b. Mine
Group No. 1 (Crude No. 1)	$700.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry[1])	150.00 to 350.00
Group No. 3 (Spinning or Textile Fibre)	110.00 to 200.00
Group No. 4 (Shingle Fibre)	57.00 to 76.50
Group No. 5 (Paper Fibre)	40.00 to 45.00
Group No. 6 (Waste, Stucco or Plaster)	30.00
Group No. 7 (Refuse or Shorts)	12.00 to 25.00

[1] Crude Run-of-Mine refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and No. 2 Crude. Crudes Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

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

	Par	March 1938 Low	High	Last
Asbestos Corp. (Com.)	n p	47	64⅞	50
Celotex (Com.)	n p	12½	21¼	14½
Celotex (5% pfd.)	100	46	63	48
Certainteed (Com.)	1	4½	7¾	5¼
Certainteed (6% prior pfd.)	100	17½	30½	20
Flintkote (Com.)	n p	10⅞	17⅞	12
Johns-Manville (Com.)	n p	58	78	61
Johns-Manville (pfd.)	100	122	126½	124
Raybestos-Manhattan (Com.)	n p	17½	21½	17⅝
Ruberoid (Com.)	n p	13	20⅝	13½
Thermoid	1	2⅜	4⅜	2½
U. S. Gypsum (Com.)	20	55	68½	57
U. S. Gypsum (Pfd.)	100	162	169¾	164

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RELATION OF PRODUCTION OF ASBESTOS IN VARIOUS COUNTRIES

	1936 Tons (2000 lbs.)	1937 Tons (2000 lbs.)
Canada—All Grades (except waste rock) Actual Production	301,127	409,813
Canada—All Grades (except waste rock) Sales and Shipments	301,287	410,024
Cyprus (Exports)	10,622	13,080
Rhodesia (Africa)—Actual Production	56,346	57,015
Union of South Africa — Actual Production	24,606[1]	28,633
Union of South Africa—Exports	24,715	27,848
United States of America—Actual Production	10,924[6]	13,896
Soviet Russia—Exports	28,831[2]	....[5]
Imports into U. S. A.—from All Sources	243,602	307,188
Consumption by U. S. A. (Apparent)[3]	250,922[3 6]	316,263[3]
Imports into England—All Sources	48,111	62,258
Production of Blue (Crocidolite)[4]	3,314[4]	5,247[4]

ROCK MINED AND MILLED—Canada Only

(From Statistics published by the Dominion Bureau of Statistics and the Quebec Bureau of Mines)

	1936	1937
	Tons (2000 lbs.)	
Rock Mined	4,692,004	6,477,805
Rock Milled	3,568,992	5,440,607
Asbestos actually produced from this Rock	301,127	409,813

1 See Footnote Page 27, this issue. Part production and part sales.
2 Figure published by Imperial Institute of London.
3 Production plus Imports minus Exports.
4 Included in figure given above for production of Union of South Africa.
5 Not available.
6 Revised figures.

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Africa (Rhodesia)

(Statistics published by Rhodesia Chamber of Mines)

	January 1938 Tons (2000 lbs.)	Value £	s	d
Bulawayo District				
Nil Desperandum (Afr. Asb. Mng. Co. Ltd.)	584.99	7,043	6	11
Shabanie (Rho. & Gen. Asb. Corp., Ltd.)	3,470.13	54,575	9	3
Victoria District				
D. S. O. (Mashaba Rhod. Asb. Co. Ltd.)	30.00	160	17	6
Gath's & King (Rho. & Gen. Asb. Corp. Ltd.)	815.03	12,064	8	2
	4,900.15	73,844	1	10
January 1937	*4,699.15*	*76,823*	*18*	*0*

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	Dec. 1936 Tons (2000 lbs.)	Dec. 1937 Tons (2000 lbs.)
Transvaal		
Amosite	375.64	615.03
Blue	27.84	81.32
Chrysotile	1,165.02	1,524.56
Cape		
Blue	347.87	494.05
	1,916.37	2,714.96

United States.

(Figures published by U. S. Bureau of Mines)

Production U. S. A. for Year 1937 ..... 13,896 short tons
Production U. S. A. for Year 1936 ..... 10,924 short tons

The figure for 1936 has been revised from that of 10,845 published last year.

The quantity sold or used by producers in 1937 (12,079 tons valued at $344,644) increased 9.2% in quantity and 9.7% in value over 1936. A large share of the total in recent years has been short fibre chrysotile from Vermont. Production in Arizona was considerably greater in 1937 than in 1936. Utilization of increasing quantities of Arizona short fibres for use on the Pacific Coast are in prospect.

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"ASBESTOS"

The United States leads all countries in the manufacture of asbestos products, but domestic deposits furnish only a small percentage of the requirements of raw asbestos. In 1937 domestic mines supplied only 3.8% of the fibre needed by the asbestos products plants of the United States.

The above information is quoted from Mineral Market Reports No. M. M. S. 633, published on March 31, 1938, the report also containing tables showing imports of raw asbestos by countries, asbestos consumption in the U. S. A. for the years 1929 to 1937 inclusive and World Production. Copies of M. M. S. 633 would probably be available to anyone writing the U. S. Bureau of Mines, U. S. Dept. of the Interior, Washington, D. C. This March 31st report which is mimeographed will be followed a little later by a printed one.

Canada

Sales and shipments, etc., as given in Preliminary Report on Mineral Production during 1937, published by the Bureau of Mines of the Province of Quebec.

	Year 1937 Shipments and Sales		
	Tons (2000 lbs.)	Value	Average Value Per Ton
Crudes	3,845	$ 947,667	$246.47
Fibres	200,246	10,235,820	51.12
Shorts	205,933	3,322,054	16.13
	410,024	$14,505,541	$ 35.38
Sand, gravel and stone (waste rock only)	3,980	3,301	.83

Production of Canada January 1938 ..... 16,845 tons (2000 lbs.)
Production of Canada January 1937 ..... 22,454 tons (2000 lbs.)

Production of Canada February 1938 ..... 12,177 tons (2000 lbs.)
Production of Canada February 1937 ..... 27,301 tons (2000 lbs.)

SUMMARY FOR THE YEAR—RHODESIA (Tons 2000 lbs.)

	Yr. 1936 Tons	Yr. 1937 Tons		Yr. 1936 Tons	Yr. 1937 Tons
January	4,008.35	4,699.15	July	4,798.32	4,731.38
February	4,690.93	4,721.49	August	4,834.10	4,795.75
March	4,623.53	4,630.32	September	4,766.18	4,549.69
April	4,810.50	4,763.02	October	4,777.53	4,767.34
May	4,704.00	4,741.10	November	4,801.40	4,950.07
June	4,750.40	4,748.53	December	4,781.10	4,916.30
				56,346.34	57,014.14
		Total Value for Year		*£ 836,468*	*£ 843,025*

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SUMMARY FOR THE YEAR: — (Union of South Africa)

By Varieties:	Year 1936[1] Tons (2000 lbs.)	Year 1937 Tons (2000 lbs.)
Transvaal		
Amosite	5,392.52	6,531.40
Blue	353.82	534.69
Chrysotile	15,899.43	16,854.89
Cape		
Blue	2,960.42	4,712.16
	24,606.19	28,633.14

[1] Figures for 1936 are made up partly of sales and shipments and partly of actual production. They are set down for comparative purposes only.

By months:	Year 1937 Tons (2000 lbs.)		Year 1937 Tons (2000 lbs.)
January	1,877.57	July	2,441.04
February	1,934.28	August	2,615.34
March	2,153.34	September	2,741.31
April	2,275.74	October	2,717.40
May	2,235.59	November	2,775.24
June	2,151.33	December	2,714.96
		Total	28,633.14

AUTOMOBILE PRODUCTION

Total production of automotive vehicles in February 1938 was 202,872 (186,806 in the U. S. A. and 16,066 in Canada); compared with 383,900 in February 1937 (364,193 in the U. S. A. and 19,707 in Canada).

January 1937 production totalled 227,744 (210,120 in the U. S. A. and 17,624 in Canada) compared with 399,186 last year (379,603 in the U. S. A. and 19,583 in Canada.)

The total for the two months (1937) was 430,616 (396,926 in the U. S. A. and 33,690 in Canada).

L. E. ADAMS PASSES AWAY

Lyndon E. Adams, President of the Anchor Packing Company of Philadelphia, died at his winter home in Southern Pines, N. C., of a heart ailment, on Saturday, April 9.

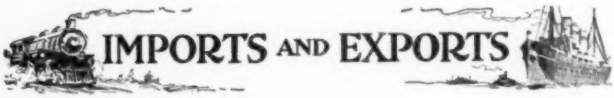
Mr. Adams was 67 years old. In addition to his Presidency of the well-known packing firm, he was an officer and former president of Elkhart Rubber Co., Elkhart, Ind.

Mr. Adams was a Mason and actively interested in Masonic charities.

The funeral was held on Wednesday, April 12.

Lavender Asbestos. In an article which we ran across recently, Crocidolite (or blue) asbestos was referred to as "lavender" asbestos.

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Imports into U. S. A.
(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos Goods:

	Jan. 1937 Tons (2240 lbs.)	Jan. 1938 Tons (2240 lbs.)
Austria	.....	3
Africa (Br. S.)	786	626
Canada	15,977	12,779
Cyprus, Malta & Gozo	219	.....
Finland	.....	20
Italy	.....	195
Soviet Union (Russia)	924	.....
United Kingdom	1	.....
	17,907	13,623
Value	*$693,593*	*$547,947*

Tabulation of Crudes and Fibres

Crude (Africa-Br. S.)	786	626
Crude (Canada)	211	61
Crude (Italy)	.....	2
Crude (Soviet Union)	17	.....
Crude (United Kingdom)	1	.....
Mill Fibre (Canada)	4,772	5,489
Mill Fibre (Soviet Union)	907	.....
Lower Grades (Austria)	.....	3
Lower Grades (Canada)	10,994	7,229
Lower Grades (Cyprus, etc.)	219	.....
Lower Grades (Finland)	.....	20
Lower Grades (Italy)	.....	193
	17,907	13,623

Manufactured Asbestos Goods:

	January 1937 Pounds	January 1938 Pounds
Austria (Packing)	.....	1,440
Belgium (Shingles)	50,449	206,654
Germany (Woven Fabrics)	.....	252
United Kingdom (Yarn)	4,478	4,474
United Kingdom (Packing)	3,901	787
United Kingdom (Woven Fabrics)	.....	2,433
	58,828	216,040
Value	*$ 4,006*	*$ 8,337*

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During January 1938 there were also imported $46 worth of Asbestos Manufactures (unclassified).

Exports from U. S. A.

(Figures published by U. S. Dept. of Commerce)

Exports of unmanufactured asbestos during January 1938 amounted to 237 tons valued at $37,470, compared with 187 tons, valued at $13,695 in January 1937.

Exports of Manufactured Asbestos Goods:

	Jan. 1937		Jan. 1938	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd. lbs.	131,615	$12,886	472,834	$15,434
Pipe Covg. & Cement lbs.	212,127	9,147	148,383	11,469
Textiles & Yarn lbs.	46,192	11,583	4,832	2,184
Packing lbs.	109,459	62,432	66,069	37,505
Brake Lining—				
Molded & Semi-molded	.....	47,932	.....	47,259
Not Molded lin. ft.	118,173	16,977	29,789	7,568
Clutch Facings—				
Molded & Semi-molded units	29,877	12,521	16,165	5,372
Woven units	23,846	3,185	38,802	6,789
Magnesia & Mfrs. of lbs.	229,452	25,550	245,043	25,208
Asbestos Roofing sqs.	1,905	5,991	1,998	9,743
Other Manufactures lbs.	292,606	19,528	192,914	24,030

Imports and Exports by United Kingdom[1]

Imports of Raw Material

	January 1937		January 1938	
	Tons (2240 lbs.)	Value	Tons (2240 lbs.)	Value
From Africa (Rhodesia)	1,283	£32,292	1,696	£38,571
Africa (Union of South)	403	4,613	857	14,033
Australia	8	195	30	2,466
Canada	241	6,930	116	1,568
Cyprus	44	743	50	918
Finland	22	151	27	194
Germany	.....	.....	5	230
Italy	9	399	4	202
Netherlands	.....	.....	147	5,213
Soviet Union (Russia)	166	3,042	283	3,778
Switzerland	1	58	.....	.....
	2,177	£48,423	3,215	£67,173

1 This heading in previous years has read "Imports and Exports by England". The tabulation really covers the imports and exports by the United Kingdom and future tabulations will be so marked.

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Imports and Exports by United Kingdom (Contd.)

Imports of Asbestos Manufactures:

January 1938 ..... 34,567 Cwts. valued at £12,062
January 1937 ..... 33,735 Cwts. valued at £13,913

Exports of Asbestos Manufactures:

	January 1937		January 1938	
	Cwts.	Value	Cwts.	Value
To Eire (Irish Free State)	2,659	£ 2,563	1,234	£ 1,609
British India	4,517	9,140	5,761	7,534
Australia	1,114	6,173	1,144	5,015
Other British Countries	23,033	24,870	28,805	29,878
Netherlands	2,071	6,507	1,812	5,706
Belgium	435	3,529	599	3,630
France	378	2,673	537	2,283
Italy	214	2,448	58	931
Other Foreign Countries	9,824	29,595	18,688	32,864
	44,245	£87,498	58,638	£89,450

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	January 1937		January 1938	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	270	$ 31,250	125	$ 6,750
United States	5,753	308,122	6,924	389,629
Australia	310	15,500	593	30,413
Belgium	22	1,430	67	3,340
France	36	3,040	20	2,200
Germany	473	44,798	743	78,429
Italy	.....	.....	24	3,107
Japan	595	30,748	985	34,851
Netherlands	22	770	99	3,465
	7,481	$435,658	9,580	$552,184
Sand and Waste				
United Kingdom	.....	.....	60	1,343
United States	11,933	196,526	8,160	125,017
Newfoundland	2	75	.....	.....
France	30	330	.....	.....
Germany	.....	.....	121	2,662
Japan	115	2,445	.....	.....
Poland	33	726	.....	.....
	12,113	200,102	8,341	129,022
Grand Total	*19,594*	*$635,760*	*17,921*	*$681,206*

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Exports of Raw Asbestos from South Africa

	Nov. 1936 Tons (2000 lbs.)	Value	Nov. 1937 Tons (2000 lbs.)	Value
		£		£
Algeria	.....	.....	10	149
Australia	159	1,732	159	1,925
Belgium	45	343	110	1,862
France	152	2,366	76	2,381
Germany	67	1,060	86	2,777
Holland	40	668	60	890
India	37	227	43	264
Italy	.....	.....	31	708
Japan	193	2,277	148	1,054
United Kingdom	932	9,704	2,034	27,748
United States	95	1,910	374	8,813
	1,720	£20,287	3,131	£48,571

	Dec. 1936 Tons (2000 lbs.)	Value	Dec. 1937 Tons (2000 lbs.)	Value
		£		£
Algeria	10	188	.....	.....
Australia	165	2,189	209	2,318
Belgium	68	727	72	1,116
France	103	1,953	73	2,293
Germany	35	984	307	7,833
Holland	26	569	25	262
India	37	227	.....	.....
Italy	.....	.....	115	3,748
Japan	183	2,228	94	1,332
United Kingdom	973	10,173	1,305	19,894
United States	312	6,699	353	7,857
	1,912	£25,937	2,553	£46,653

SUMMARY FOR THE YEAR

Exports of Raw Asbestos from South Africa

	Year 1936 Tons (2000 lbs.)	Value	Year 1937 Tons (2000 lbs.)	Value
		£		£
Algeria	50	935	40	703
Australia	2,446	30,209	1,750	21,317
Belgium	904	10,855	723	11,524
Canada	82	1,250	117	2,213
Chili	44	596	150	1,849
China	20	433	.....	.....
Dutch E. Indies	2	24	.....	.....
France	1,311	21,459	1,285	28,055

(Continued on next page)

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Summary—Exports of Raw Asbestos from South Africa (Contd)

	Year 1936		Year 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Germany	1,138	25,071	1,459	41,163
Holland	186	3,699	341	3,496
India	363	2,202	516	3,145
Italy	49	991	717	20,741
Japan	2,433	28,488	2,774	34,267
Portugal	50	1,045	.....	.....
Rhodesia	.....	.....	1	25
Spain	126	1,769	.....	.....
Sweden	13	296	15	330
United Kingdom	13,611	156,464	14,938	192,332
United States	1,877	40,844	3,011	67,403
Uruguay	10	227	11	304
	24,715	£326,857	27,848	£428,867

NEWS IN THE CAREY ASBESTOS CEMENT LINE

On April 1st The Philip Carey Company placed on the market its "Architects Line" of Asbestos Cement Shingles. They have combined in a Duplex, or "two in one" Tapered American Method Shingle, random widths and staggered butts, which combination is said to not only achieve unusually good appearance on the roof but effects substantial savings in application costs.

An outstanding feature in the color range is the furnishing of two pleasing blends — the "Fall" and the "Bowling Green." Shingles are *presorted* at the factory in the bundles for both type and color, this to eliminate the hazard of the human element in application, an arrangement that will prove not only pleasing but economical to the contractor using them and the architect specifying.

Other recent developments in Careystone Shingles and Sidings are the Ducks-Back White Siding Shingles and Clapboard, these shedding water like the proverbial duck's back and a new French grey which is a clean steel grey elim-

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inating the slight buff or yellow caste created by most ordinary types of Portland Cement.

Editor's Note: Other manufacturers of asbestos cement products are urged to keep us advised of new colors, designs and styles in Asbestos Cement materials.

SIX TYPES OF BRAKE LINING

"There are many kinds of brake linings on the market today, but most of them will fall within one of the follow-classes". Thus begins a very informative article on the various kinds of brake linings now available, which was published in the March 1938 issue of Brake Service[1] and was written by Henry McDonald, Director of Research, Russell Mfg. Company.

Mr. McDonald then goes on to describe the various types, shows why each type has been developed and its advantages for certain conditions of service. The six types listed are:

1. Conventional Woven Brake Lining
   a. Flexible
   b. Semi-flexible
   c. Full-moulded
2. Loom-Treated
   a. Semi-flexible
   b. Full-moulded
3. Fiber Brake Lining
   a. Wet mix (paper machine type)
   b. Wet Mix (Extruded)
   c. Dry Mix
      1. Resinous Binder
      2. Rubber Binder
4. Folded-Moulded Rubber
   a. Semi-flexible
   b. Full-moulded
5. Rubber-Fiber Lining
   a. Flexible
   b. Semi-flexible
   c. Full-moulded
6. Wire-Back Lining
   a. Semi-flexible
   b. Full-moulded

1 Published at Central Depositer Tower, Akron, Ohio.

Men who are getting big results don't have to tell the world how hard they work.

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NEWS OF THE INDUSTRY

BIRTHDAYS.

Philip A. Meyer, Treasurer, Sall Mountain Co., New York City, April 16.

F. C. Edson, President, Asbestos Manufacturing Co., Huntington, Ind., April 18.

C. Mosier, Vice-Pres. & Gen. Mgr., Union Asbestos & Rubber Co., Cicero, Ill., April 18.

P. O. Baker, Sales Representative, General Asbestos & Rubber Co., (address Providence, R. I.,) April 18.

A. D. Simpson, General Manager, Asbestos Erectors, Ambler, Pa., April 19.

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

Frank T. Hearst, Manager, Kelley Asbestos Products Co., Kansas City, Mo., April 20.

Merlin W. Simon, Secretary, Springmann Sons Corp., Milwaukee, Wis., April 20.

H. H. Robertson, President, H. H. Robertson, Co., Pittsburgh, Pa., April 21.

S. D. Van Vleet, Secretary-Treasurer, Vermont Asbestos Corporation, New York City, April 24.

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

John Lotz, Jr., President, Lotz Asbestos Co., Hartford, Conn., April 29.

Clare S. Jamar, Vice President, Walker-Jamar Co., Duluth, Minn., April 29.

G. A. MacArthur, Secretary & Treasurer, G. A. MacArthur Co., Minneapolis, Minn., May 6.

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

L. L. Cohen, President, Union Asbestos & Rubber Co., Cicero, Ill., May 7.

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

Congratulations and best wishes are extended by "ASBESTOS" to these gentlemen.

JOHNS-MANVILLE. At its annual meeting of stockholders, held March 25th, directors elected for the ensuing year included: Walter H. Aldridge, Francis D. Bartow, Lewis H. Brown, H. Edward Manville, William R. Seigle, Enders M. Voorhees, George Whitney and E. T. Stannard.

Alfred P. Sloan, Jr., who had served for nine years as a Johns-Manville director, and Clarence M. Woolley, who had been

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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

The CAPE ASBESTOS CO. Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
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a director for the past eight years, requested that their names not be submitted to the stockholders for re-election because of the pressure of other duties.

E. T. Stannard, who replaces Mr. Sloan as director, is president and a director of Kennecott Copper Corporation. He graduated from Sheffield Scientific School, Yale University, in 1905.

It was announced that the place on the board left vacant by Mr. Woolley will be filled at some later meeting of the company's directors.

THE RUSSELL MFG. COMPANY will shortly announce safety belts for passenger cars, claiming that they are the most important safety factor since the adoption of safety glass. Trials have proven that belts will hold passengers in their seats when in collision and thus prevent them from going thru the windshield or the top of the car. The belts are not made of asbestos; the company manufactures cotton and other textile tapes, etc., as well as asbestos brake lining.

ARNOLD W. KOEHLER, 415 Lexington Ave., New York City, has been appointed agent in the United States for Asbestos Quarries, Limited, of No. 1 Victoria St., S. W. 1, London, producers of Italian Asbestos, both raw and carded. Inquiries addressed to Mr. Koehler will be promptly cared for. Note Mr. Koehler's new address.

THE EHRET MAGNESIA MANUFACTURING COMPANY has recently issued two special catalogs. One is devoted to 85% Magnesia Insulations, and the other to the Durant System of Pre-sealed Insulated Pipe.

These bound folders contain new information of both a practical and technical nature, and we understand that they are sections of a comprehensive hand book of insulating and industrial products which the Ehret Company has had under preparation for some time. Those desiring copies of the special catalogs should write to the Ehret Magnesia Manufacturing Co., Valley Forge, Pa.

P. O. BAKER, New England Sales Representative for General Asbestos & Rubber Division, has been associated directly or indirectly with the Asbestos Industry for over 24 years. He is a constant reader of "ASBESTOS", having received it for the past ten years.

THE CELOTEX CORPORATION of Chicago, Ill., announces with much regret, the death of their Vice President and General Sales Manager, on March 24th. Mr. Knapp had been ill with heart trouble for several weeks.

Mr. Knapp joined the Celotex organization in 1927 as assistant general sales manager, and, in 1930 was promoted to the position of general sales manager. He was made Vice President in 1937.

JOHNS-MANVILLE announces its 1938 Transite Wall Brochure, describing its modern type of movable wall which also retains the desirable features of the conventional partitioning. The

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book tells of the economy and ease with which Transite Walls can be relocated to meet the changing needs of business and shows how there is practically 100% salvage of materials. Copies of the brochure, Form TR-19A, are available upon request to Johns-Manville.

Another Brochure recently announced by John-Manville is its "Transite Mine Drainage Pipe", which makes available for the first time, complete information on the application of Transite asbestos-cement pipe to the mine drainage field. One section of the book tells how the pipe is manufactured and describes the tests made on it before being released for shipment. Copies are available upon request to Johns-Manville. Ask for Form TR-20A.

Also a new edition of their book on Bonded Built-up Roofs has been issued. This has been revised to include information on the latest types of built-up roofing and now contains within its thirty-six pages, more than 40 complete detailed specifications on J-M Built-Up Roofs.

LEWIS H. BROWN, President of Johns-Manville, was recently elected a director of the Bankers Trust Company, New York City.

"FIBRES OF GOLD", a most comprehensive article on the mining of asbestos, written by T. R. Elliott, will be found in the March 1938 issue of the Canadian Geographical Journal. Much of the early history principally concerning the asbestos mine at Asbestos, Quebec (near Danville) and a number of photographs add to the interest of the article.

THE PHILIP CAREY MFG. COMPANY, and wholly owned subsidiaries shows a net profit of $427,492, equivalent, after dividend requirements on the five percent and six percent preferred stocks, to 82 cents a share on 395,131 shares of new no-par common stock. This compares with net profit of $320,319 for 1936, equal, after dividend requirements on six per cent preferred stock, to $2.90 a share on 79,047 shares of old common stock.

The Company declared regular quarterly dividend of $1.25 on five per cent preferred and regular quarterly dividend of $1.50 on six per cent preferred, both payable March 31 to stockholders of record March 21.

THE PHILIP CAREY COMPANY announces the appointment of G. B. Johnston as Manager of their Dealer Products Division, this Division comprising the departments of Carey products which move principally thru Dealer channels—shingle and roll roofing, builtup roofing, rock wool, paint and rigid shingles and siding.

THE CELOTEX CORPORATION announces the appointment of Lee Bartholomew, as Assistant General Sales Manager with headquarters in Chicago. Mr. Bartholomew was formerly (since 1934) manager of the Cleveland division.

George J. Dinges (formerly Assistant Manager of the New

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Orleans division) has taken Mr. Bartholomew's place in the Cleveland division.

Both Mr. Bartholomew and Mr. Dinges have been with Celotex since 1931.

CRESSWELL'S ASBESTOS CO. LTD., of Bradford, England, announce that Geoffrey A. Bracewell, F. I. C., F. R. M. S., formerly Joint Managing Director, assumed sole responsibility as Managing Director of the firm, upon the death of his father, Alfred Bracewell, announced in our March issue.

Ralph A. Bracewell, brother of Geoffrey A. Bracewell, is Works Director.

Geoffrey A. Bracewell originally joined the firm about 25 years ago as chemist and engineer.

THE PHILIP CAREY MFG. CO. at its annual meeting increased its directorate to twelve from seven and the following new directors were elected: W. C. Bowman, W. L. Steffens, C. A. Blinn, L. E. Whitaker and W. C. Ignatius. All five of the new directors are officials of the Company.

J. T. McCALLUM, Secretary-Treasurer of Asbestos Corporation Limited, of Thetford Mines, was the guest of honor at an informal gathering held on March 15, 1938. The occasion was the 25th anniversary of his appointment as Secretary-Treasurer of Asbestos Corporation of Canada Limited, the predecessor of the present Company. On behalf of the Staff, Captain J. G. Ross, the Company's Manager, presented Mr. McCallum with a handsome, fitted case.

GEORGE DICK has been appointed General Superintendent of Asbestos Corporation Limited. Mr. Dick has been associated with the Company in an Engineering capacity for nineteen years.

GEORGE JENKINS, formerly Superintendent of the Beaver Mine of Asbestos Corporation Limited, has been appointed Chief Engineer of the Company. He is succeeded as Superintendent of the Beaver Mine by Sydney Bateman.

THE CANADIAN ASBESTOS MINING INDUSTRY and its efficient work for the promotion of safety came into especial prominence at the recent annual convention of the Canadian Institute of Mining and Metallurgy held during March at the Royal York Hotel in Toronto, Ont., when two representatives of the industry, — Walter A. Montgomery and G. F. Brink, carried off first and second prizes respectively for their papers dealing with accident prevention in a competition open to the Mining and Metallurgical Industry thruout the whole of Canada.

Mr. Montgomery is Safety Engineer for the Quebec Asbestos Producers' Association; Mr. Brink is Engineer at the Beaver Mine of Asbestos Corporation Limited at Thetford Mines.

DR. W. H. HUBER, President, Asbestos Fibre Spinning Co., North Wales, Penna., has fully recovered from his recent illness which required two major operations and kept him in the Hahnemann Hospital for three and a half months. We know his many

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friends in the Asbestos Industry will be delighted to learn of his complete recovery.

TURNERS ASBESTOS CEMENT CO., according to one of our English correspondents, expects to begin production in June at its new factory erected on the site of the former Beardmore shipyard at Dalmuir, Scotland. It is reported that the company is spending £200,000 on reconstruction and equipment. Both roofing materials and pressure pipes will be made at this plant.

MATTHEW B. BARKLEY of Charleston, N. C., at one time well-known in the asbestos industry as President of the General Asbestos & Rubber Co., and later heading his own company, Cameron & Barkley, distributors of asbestos products and other materials, died on Friday, April 8, after a long illness.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Brake Lining. No. 2,102,855. Granted on December 21 to Adolph Rosner, Rockton, Ill., assignor to Bendix Brake Co., South Bend, Ind. Original application December 21, 1928. Serial No. 327,730. Divided and this application January 22, 1934. Serial No. 707,654.

A friction material for attachment to a brake shoe or the like and which is formed in a long strip, having, when the strip is straight, parallel transversely curved upper and lower faces presenting a concavity on the side which is to engage the shoe, which concavity tends to flatten out as the strip is bent into the arc of the shoe, and which strip is of woven material or transverse elements set under tension so that there is substantially no tendency for the material to separate transversely under pressure.

Apparatus for making Saturated, Sized, Filled or Coated Paper of Fiberboard. No. 2,104,052. Granted on January 4 to Izador J. Novak, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc. Application July 19, 1933. Serial No. 681,056.

The combination with a paper forming machine having means for felting aqueous fibrous pulp into the form of a continuous wet web, of a vat containing a bulk supply of selected permeating medium in liquid condition; a hollow roll having a foraminated surface rotably positioned in said vat, means separated from and independent of the web, felting means for passing said continuous wet web into contact with said permeating medium comprising an endless foraminated conveyor for confining the wet web between its surface and the foraminated surface of the roll to prevent disintegration of the web during its passage in contact with said permeating medium means for condensing said web to remove excess liquid and means for removing said condensed web from the conveyor.

Vibration Damped Structure. No. 2,106,792. Granted on February 1 to Donald S. Bruce, Somerville, N. J., and Roy E. Berg, Plainville, N. J., assignors to Johns-Manville Corporation. Application July 5, 1935. Serial No. 29,928. Description upon request.

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THIS and THAT

Expansion. A licensing agreement with The Pottsco Corporation of Chicago for the acquisition of full rights to the manufacture, distribution and sale of Pottsco lightweight concrete aggregate has been concluded by The Celotex Corporation, thus expanding its line of building products.

The acquisition is the prelude to the introduction on a major scale of a material that is finding increasing acceptance with architects and engineers in search of an inexpensive lightweight aggregate combining structural strength, heat resistance, and non-corroding qualities.

Another addition to the Celotex line is a hardwood floor tile, called Celotex Tempered Hardwood Flooring.

16th Edition. The Heating, Ventilating, Air Conditioning Guide 1938 is the 16th edition of the official reference book compiled by the American Society of Heating & Ventilating Engineers. It contains 840 pages of technical reference data. A chapter on Air Conditioning in the Treatment of Disease appears for the first time. A new feature of the Guide is a visual chapter index.

Chapter 39 "Pipe and Duct Insulation", will be of particular interest to the Asbestos Industry. Several new tables are included in this chapter, one of these covering heat losses from Copper Pipe. Over two pages have been devoted to the subject of Heat Losses from Ducts.

Single copies of the Guide 1938 are available at $5.00 either from the Society at 51 Madison Ave., New York City, or from "ASBESTOS".

Rock Formation. At meeting of the American Section of the Society of Chemical Industry, held jointly with the American Chemical Society on April 8th, Dr. George W. Morey, of the Geophysical Laboratory, Carnegie Institution of Washington, spoke on "Rock Formation: Nature's Chemical Industry". Dr. Morey showed how each of the chemical processes by which the variety of rocks and minerals have been produced in nature are prototypes of present day methods and processes used by the chemical engineer who applies them in industrial separation of minerals and ores.

A. S. T. M. Annual meeting of the American Society for Testing Materials will be held at Atlantic City, June 27 to July 1, 1938.

New Zealand. The Industrial Efficiency Act of 1936 passed by New Zealand includes provision for the licensing and control of any industry producing goods containing a mixture of cement and asbestos, according to report received by the U. S. Dept. of Commerce from the American Consulate General at Wellington, N. Z.

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ASBESTOS

TEXTILE PRODUCTS

made of asbestos fibre obtained from Africa, Arizona and Canada—each selected for specific qualities and properly blended to produce:—

Maximum strength and heat resistance.
Minimum iron for electrical purposes.
Non-scoring rod and valve packing.
Frictional properties in brake lining.

GARCO roving, yarn, cord, cloth, tape, tubing, rope, wick, wicking and other asbestos textile products give satisfaction because they are made of the best fibre for the particular purpose on modern equipment by skilful workmen.

Commercial Grade
Underwriters' Grade
Grade AA
Grade AAA
Grade AAAA

Write for Textile Catalog

GENERAL ASBESTOS & RUBBER DIVISION

of

RAYBESTOS-MANHATTAN, Inc.
NORTH CHARLESTON, S. C.

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Calvin Coolidge attributed the stability of New England to four maxims;

Eat it up
Wear it out
Make it do
Do without

Oh, for a national realization of that common sense.

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