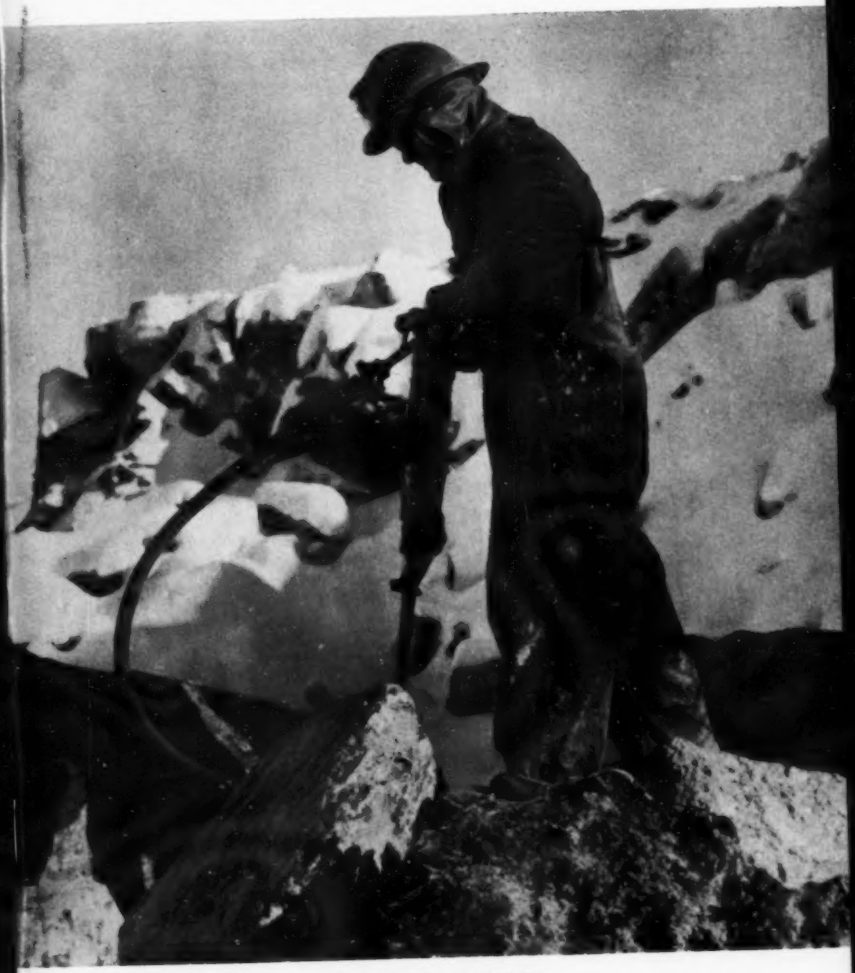
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ASBESTOS AND ITS ASSOCIATED MINERALS

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

The presence of extraneous minerals or valueless fibres in asbestos ore-bodies suggests a condition synonymous with the common axiom that "one man's meat is another's poison", for, to the asbestos producer, foreign impurities in the fibre are certainly "poison". The adverse affect on the asbestos often means a difficult and costly job to clean up the product to produce acceptable standard grades, in spite of the outstanding advance in milling technique today. The "meaty" part of the matter is that the collection of certain associated minerals often serve as useful clues in establishing structural problems relating to the many variables, common to most asbestos deposits. Mineralogists and geologists make greater use of these clues in determining age, origin and other valuable data regarding the formations. Looking ahead, it is hoped that such clues may also help to solve the puzzle of erratic mineralization and irregular fibre deposition that seems an inherent part of some asbestos deposits. In general, they certainly provide a valuable basis for research into some of the vagaries of asbestos mineralization, many of which continue to prove obstacles to efficient exploratory work, positive development and the economic exploitation of some ore-bodies.

Impurities of a cognate nature, such as, allied minerals or altered asbestos forms occurring in any deposit, naturally vary according to the type and origin of the parent rocks from which they are derived. The associated minerals, as a consequence, cover a wide range and are not all common to every variety or class of asbestos.

Iron, (in the form of magnetite) and talc are perhaps two minerals that are most widely distributed; the former, in nearly all asbestos varieties, more or less, while talc is more commonly found associated with some classes of chrysotile. Talc appears to be a fairly constant constituent of the sedimentary types of chrysotile asbestos and is invariably associated with anthophyllite and tremolite mass-fibre lenticular occurrences.

In these ore-bodies, the removal of talc from the asbestos is invariably troublesome, but magnetite, in

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some chrysotile deposits, is a more serious problem, since it is difficult to eradicate altogether. If the content of iron exceeds 0.75% then the asbestos cannot be used for electrical insulation in any form. However, as the magnetite is combined physically with the fibres, either as black granules or small particles, much can now be removed by devious separation and extraction methods. The work involved in this is clearly another example of an intermediate process, between the mining and final treatment of the fibre, to produce clean standard grades. It is also clearly another significant factor in the final production cost.

In some asbestos varieties, magnetite cannot be successfully removed, especially when it occurs in the high iron amphibole varieties. The mode of deposition and the combination with other associated minerals introduces several complex conditions in these cases.

Another bad mark against magnetite, in asbestos of any variety, is that it often occurs as the finest veinlet running across the asbestos fibre strands at right angles to them, causing a line of weakness that is mainly responsible for the development of the double type of cross-fibre vein. The result of this development is that what might otherwise have been long crude fibres, ends up in two short fibre lengths. This is not an uncommon occurrence in many cross-fibre chrysotile veins.

Brucite is a fairly common mineral associated with chrysotile asbestos in serpentine rocks. It is especially evident in the Canadian ore-bodies in parts of the main Quebec field. In many chrysotile deposits, small quantities (not always easily detected) of chrome, alumina, nickel and manganese may be found. Unfortunately, these minerals, although of economic value in their own spheres, never occur in sufficient quantity to make their separation and extraction payable. Indeed, it is rarely possible to recover the associated minerals, although an exception may be in the case of excesses of calcium carbonate or magnesium carbonate. High percentages of these elements have a direct effect on ignition loss when the fibre is subjected to high temperatures. They also provide a potential source of magnesium metal and magnesium salts. So, even as a foreign impurity their extrac-

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tion, where possible, provides a useful by-product.

There is, of course, the unique instance of the occurrence of good quality "slip" in a gold mine in Rhodesia; not actually in close contact, but in the same formation. (1).

Unlike many metalliferous ore-bodies, where associated minerals are often recovered profitably as by-products, asbestos associated minerals are frankly disappointing because they are never an asset, indeed, they are more often than not, a liability.

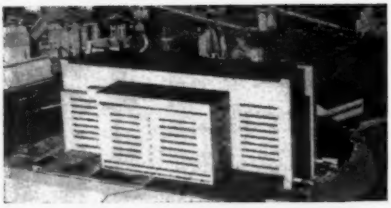
Chrysotile asbestos, in some localities, suffers alteration that changes the normally soft flexible fibre to a harsh and brittle texture. The most outstanding and possibly the commonest type in this category is picrolite. Its local name among asbestos miners, is "bastard asbestos", which succinctly describes its low status in their eyes. Because of its brittle and non-fibrous nature it is, of course, of no commercial value and must be removed from the asbestos in some stage of extraction or treatment.

Another mineral derived from certain serpentine formations is antigorite. This occurs in lamellar form as small plates and is very generally found in chrysotile serpentine deposits in Cyprus and California. Both antigorite and picrolite impurities usually occur in regions that have been subjected to structural stress.

In the amphibole asbestos varieties, the associated minerals and altered forms of the fibre are found widely distributed in most deposits of this kind. The more common minerals include iron as magnetite and limonite. There are few amphiboles in which they do not occur in this or some other form. Riebeckite, a form of non-fibrous crocidolite in the Australian "Blue" asbestos deposits, is a common constituent of the quartzite beds in which the asbestos occurs. It is also associated with the newly discovered crocidolite occurrences in New Quebec-Labrador, in Canada.

Grunerite and cummingtonite are frequently found associated with amosite asbestos in the Transvaal, while gedrite, non-tronite, magnesium and magnetite frequently occur in the crocidolite in the Cape field. Quartz and acmite are also associated with the asbestos in some

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zones.

The altered forms of these amphibole varieties consist mainly of "golden reef" (otherwise a gold colored silicified form of the fibres) that occur mostly in the amosite lodes. Griqualandite, another yellow colored silicified form, either hard or powdery in texture, is more commonly found replacing the "Blue" asbestos fibres, while the highly silicified form known as "Tigers Eye" occurs mainly in one isolated region of the Cape crocidolite field.

These altered forms ,so common in the crocidolite and amosite varieties, are due directly to chemical changes made up of silicification, hydration and oxidation, plus the effects of deep seated dynamic and thermal action.

The extreme changes brought about in the different varieties of amphibole asbestos, depend a great deal on the make up of the parent rocks, which vary extensively from place to place. Alteration also appears to be due to the presence of soluble minerals as impurities in their composition besides the association of other minerals, unless these have been replaced or chemically affected the asbestos.

The most complex of the amphibole group, in so far as associated minerals are concerned, are the anthophyllite and tremolite varieties. These generally occur in mass-fibre form in amphibolite bodies ,in which there is a complete lack or orientation of the asbestos and the fibres, therefore, are inextricably mixed with a vast complex of extraneous materials.

In these ore-bodies, mica and talc are usually found as the most common and the most troublesome physical impurities and, unlike the other forms of cross- or slip-fibre structures, they are somewhat difficult to separate and remove.

Other minerals commonly associated with anthophyl lite and tremolite-actinolite series are iron, calcite, chlorite and sphene.

The occurrence occasionally in asbestos rock formations or sometimes in other quite different rock structures of the asbestiform bodies, is the mineral known as

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polygorskite or pilotite. This is but another of the many puzzles of asbestos origin; in this case obviously of freakish genesis.

The isolated and sporadic occurrence of this form of asbestos in various localities, probably accounts for the different names by which it is known, viz: mountain flax, mountain wood, mountain leather or mountain cork. Why the word mountain should precede these various names is unexplained, because the occurrences are not found only in mountainous regions but anywhere and usually in small isolated patches.

The fibres are generally inclined to be rather long and although semi-fibrous in texture, are mostly harsh and brittle, and of no commercial value.

Examples such as this and the many other changed fibrous forms, or the alien minerals often associated with asbestos, together present a tantalizing challenge to the research worked. To resolve the complex problem of the irregular and unpredictable structure of the asbestiform formations is a task that offers maximum scope in variety and interest. The solution of the conundrum will, in general, give the industry enhanced resources of asbestos at a much lower production cost.

(1) "The Anomaly of Slip Fibre" by the Author, "ASBESTOS", Sept. 1954.

ROOFING IN THE ANTARCTIC

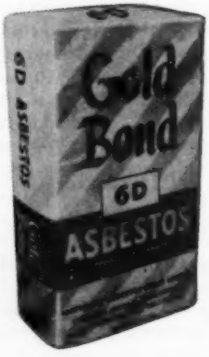
With the eyes of the world once again upon the polar regions, the Ruberoid Co. Ltd. of London, England, have produced a reminder of the role the company's products have played in the great story of the twentieth century Antarctic exploration.

Vividly interesting, with the title of "The Worst Conditions in the World", the new publication shows that from the time Captain Scott took Ruberoid roofing with him on the first British Antarctic expedition of this century, it has been used on all the subsequent expeditions right up to, and including those that have been figuring in the headlines this winter.

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Ultra-modern mill makes NEW Gold Bond Asbestos!



The photo above shows the newly-completed mill where the new Gold Bond® brand of asbestos is now being produced at Thetford Mines, Quebec. This multi-million dollar plant has been designed to assure you maximum uniformity of desired grades. Fibres and shorts are loose-packed or pressure-packed in jute or paper bags. Address your inquiry to:

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INSULATING FOR FIRE PROTECTION

Thermal insulations normally employed on hot piping and equipment are designed primarly to conserve fuel and control process temperatures but they also play an important role in fire protection and are used frequently for that express purpose.

The primary functions of such insulating materials in fire protection are: (1) to contain the heat from flash fires in ducts and other metal equipment; (2) to protect metallic structural members from damage by external fires; (3) to prevent fires caused by the ignition of combustibles in contact with or in the proximity of hot piping and equipment, and (4) the protection of flammable contents of pipes or vessels.

When the fire protection and prevention aspects of insulation are considered, there are two properties of the materials of primary importance. First, they must retain their physical forms and dimensions under exposures to temperatures to be anticipated from fires. Second, they must have the low thermal conductivity and high heat capacity to maintain a surface temperature on the obverse side from the fire that will prevent ignition of adjacent combustibles or protect the insulated metal.

The insulating materials represented by The Magnesia-Silica Insulation Manufacturers Association and on which pertinent data are available are 85% Magnesia, calcium silicate, expanded silica and diatomaceous silica insulations. All of these are inorganic, molded products in block and pipe section form. While there are numerous chemical and physical properties that contribute to the fire protection qualities, one of the most important is the totally inorganic structure. If physical and dimensional stability of an insulation is dependent upon an organic binder or other ingredient that can be destroyed or seriously damaged by the high temperature of a fire, the product is not suitable for fire protection.

On the other hand, it is not necessarily the objective to have insulation emerge from a fire unscathed and un marked. It may be necessary to replace the insulation or repair it after a fire but, if it has served the purpose of preventing a spread of the fire or of protecting structural materials, it has answered the emergency demand.

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Since insulating materials are primarily designed and developed for heat conservation at a specific temperature over long periods, the materials have been tested and their properties measured for such normal functions rather than fire protection consideration. This means that the temperature limits of the various materials normally published have been established for constant, long range exposures rather than short, intense exposures.

M-SIMA has established the following temperature limits for normal service: 85% Magnesia, 600 F; calcium silicate, 1,200 F; expanded silica, 1,600 F; and diatomaceous silica, 1,900 F.

For fire protection purposes 85% Magnesia insulation has been laboratory tested with direct application of a 2,000 F open flame for a period of two hours. The result was only a few surface cracks with retention of physical form and fire protection properties. Similar results have been obtained from tests of the other three insulations. In this test, the insulation was in pipe sectional form applied to a pipe.

Field experiences under actual fire conditions have indicated that these insulating materials will guard against fire damage to structural members and operating equipment. A major chemical plant fire in Pennsylvania was a case in point. Large vessels and related piping in the plant were in part insulated with 2-in. thick 85% Magnesia blocks and pipe sections. Other similar and adjacent equipment was uninsulated. In the hot and lengthy fire which completely enveloped all equipment, the uninsulated equipment was heavily damaged while the insulated units remained intact. The flammable contests of the ruptured vessels added to the conflagration while the contents of the insulated tanks and piping did not ignite. The insulation itself required some minor replacement and repair, particularly of the insulation jackets, but much of it was still intact and useable.

Since insulation is usually applied for fuel conservation under normal operating conditions, it is not practical nor economical to select an insulating material for its fire resistance or protection properties alone. Thus, while diatomaceous silica has a heat resistance under constant exposure of more than three times that of 85%

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Magnesia, 1,900 F as compared with 600 F, its higher conductivity dictates against its use at medium temperatures. Furthermore, it would require a greater thickness of diatomaceous silica to provide the same insulating value of the material.

85% Magnesia has distinct advantages in fire protection as it contains a high percentage of water of crystallization. This chemically combined water must be released before the temperature of the material can rise.

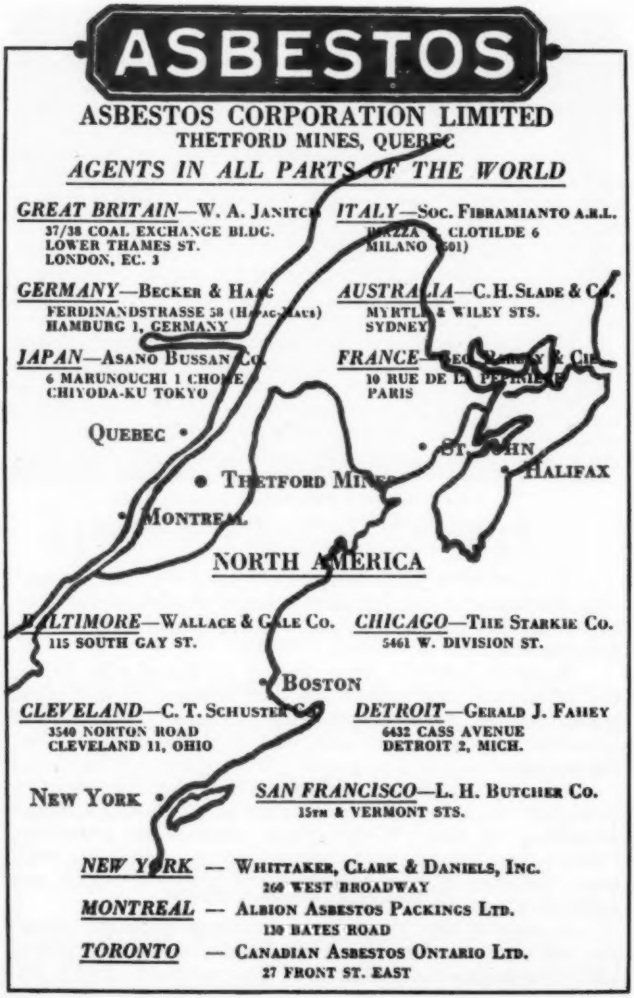
This insulating material has been used to protect structural steel in a number of buildings. Certain hotels in New York City have been so constructed as well as a large theatre in Boston where the supporting steel for the arched roof was insulated with 85% Magnesia to conserve weight. The use of insulation rather than concrete or aggregate for this purpose may be desirable whenever weight is a factor.

Another use of 85% Magnesia was reported recently from Los Angeles. The Carnation Company there elected to fuel its fleet of 250 trucks with LP Gas. The Los Angeles Fire Department requires that any such LP Gas storage tank must have fire protection for any metallic elements in the foundation. The steel skirt of the concrete foundation of this 10,000-gallon water capacity storage tank was covered with 2-in. thick 85% Magnesia blocks, applied as directed by the Fire Department.

With the constanly rising temperatures of power and process operations, the role of insulation in both conserving fuel and protecting against fires is becoming even more vital. Both power plants and process plants are operating at temperatures in excess of 1,000 F. At these and even lower temperatures, the danger of fire from contact of combustibles with such piping and equipment or exposure to radiant heat from these sources is a distinct fire hazard.

At these elevated temperatures, metal must expand. Since insulation expansion is only a fraction of that of metal, insulation joints must open when that expansion occurs. While insulation expansion joints can be installed and usually are at certain intervals on large vessels, ducts, breechings and, occasionally, on long pipe lines,

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it is too costly to use such methods at every joint between insulation blocks or pipe sections. The only way to assure against through joint openings to hot metal is to use double layer insulation construction with both horizontal and longitudinal joints staggered between layers.

With single layer insulation, obviously less costly to apply, joint openings can scorch canvas insulation jackets, ignite oily cleaning rags left carelessly over a pipe line or the oil drip from an adjacent machine. In plants handling flammable liquids, a leak from a process line hitting the hot metal of an adjacent steam or process line through an open insulation joint can cause a major fire.

Insulation maintenance in process and power plants is important to fire protection. In most such plants, frequent changes are made in pipe lines and equipment. Not infrequently, hot flanges and fittings and even entire pipe lines are left uninsulated after such changes. These are not only fire hazards but hazards to personnel.

(By Utley W. Smith, Chairman, Engineering and Research Committee, The Magnesia-Silica Insulation Manufacturers Association)

A sound-slide film designed to help the roofing and siding contractor get a bigger share of the home modernization market has been released by the Insulating Siding Association.

Entitled Better Living Comes to Monticello Drive, the 12-minute film traces the case history of a typical modernization project, including the first contact, sales presentation, closing the sale, and application of insulating siding.

"Seeing this film is a pleasant way for the salesman to review the basic selling features of insulating siding," according to Carl Westergaard, association president, "and to arm himself with facts he needs to compete with other building materials and other products which are attracting consumer dollars."

A copy of the film may be obtained from any member company or directly from Insulating Siding Assn., 1201 Waukegan Rd., Glenview, Ill.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business conditions appear much better than for some months past. Some economists now seem certain that the recession has already bottomed out and we are in the early phases of an upturn that will carry the entire economy to new highs sometime in 1959. Certainly the facts that steel output housing starts, auto sales and total employment have all recently shown signficant increases are most encouraging. Closer study also indicates that excess inventories have been declining very rapidly, making heavy replacement buying an excellent possibility for the very near future. Should all the indicators noted above continue to move favorably a definite upturn would seem to be assured for the latter half of this year.

ASBESTOS — RAW MATERIAL

During the first half of 1958 overall Canadian fibre shipments were considerably below the 1957 level.

With the vacation period at the mills and consumers' plants it is expected that shipments during June and July will be somewhat lower than normal.

Practically all grades are in ample supply and stocks also generally ample.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. There has been very little improvement in this market for the past thirty days. The demand for asbestos textiles is very low.

Asbestos Brake Lining. Replacement orders are about on the same level or slightly ahead for the same period last year. The outlook for the balance of the year is very favorable. Equipment sales depend upon reception of new models due to come out in August or September.

Asbestos Paper. Sales activity is still low compared to a year ago. Capacity that is produced far exceeds demand. Orders for *Millboard* are still very slow and prices are more competitive than they have been. The present market for *Asbestos Saturated Paper* is showing slight overall gains with sales still below production capacities. It is anticipated that the balance of the year will show decided improvement in sales volume.

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Insulation. High Pressure. This market is considerably depressed at present. Competition is very keen and this is applicable on both material and on contract quotations.

Insulation. Low Pressure. Orders for this material have increased slightly during the past thirty days due to improved weather conditions enabling building construction to move along more rapidly.

Asbestos Cement Products. The sales for this material are slower than usual for this time of year.

The *asbestos siding* market at the present time is very strong on all types of glazed asbestos siding. However, the market is still very weak on regular asbestos siding. At present there are backlogs on all types of glazed asbestos-cement siding.

The market for Asbestos Cement Pipe is experiencing seasonal increase in demand. It is believed that high demand will exist as the year progresses due to the improvement in housing starts which were rather late being experienced.

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

THE COVER

The photograph on our cover, showing a man at the open pit at Black Lake, P.Q., Canada, drilling holes for dynamite to break up rock that had been blasted but still too big to load, was supplied by The Johnson's Company Ltd., Thetford Mines, P.Q., Canada.

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Shield them with economical barriers of J-M ALUMINIZED Asbestos Cloth

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

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

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



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

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

Asbestos Magazine, 1958, July 1958
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We quote below letter received from one of our readers concerning the article titled "New Trends in Asbestos-Cement Joints for Pipes", published in our June 1958 number:

To the Editor:

We note in the June issue of "ASBESTOS" a very interesting article titled "New Trends in Asbestos-Cement Joints for Pipes" written by Mr. G. Stock, manager of the Asbestos Cement Engineering Co., of Vaduz, Switzerland.

While the article will doubtless be of great interest to those concerned with asbestos-cement pipe, certain inaccuracies appear (occasioned, no doubt, by unintentional transpositions in the preparation of the manuscript) which should be clarified in order that the reader be better oriented with respect to those asbestos-cement pipe couplings manufactured in the United States.

In the eighth paragraph, on Page 24, the joint described is not a FLUID-TITE joint, but rather is the RING-TITE coupling.

On Page 26, in the second paragraph, the terms RING-TITE and FLUID-TITE have been transposed. This same transposition occurs in the sketches accompanying the text; the term RING-TITE should appear under the drawing the third from the left and the term FLUID-TITE, properly should be the caption for the sketch appearing fourth from the left. On the same page, in the third paragraph, the coupling which is referred to as the FLUID-TITE, is actually a RING-TITE coupling.

It might be pertinent to point out that the FLUID-TITE coupling is manufactured by Keasbey & Mattison Company while the RING-TITE is made by Johns-Manville. They are registered trade marks of the two companies.

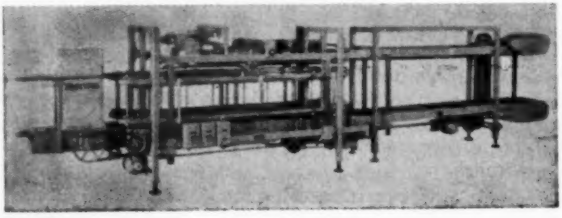
Cordially yours,
KEASBEY & MATTISON COMPANY
R. A. Schneider, Director
Technical Development

Reprints of the article, "Improving Felt Performance on Asbestos Cement Machines", by Jay Knowles, may be obtained, free of charge, by writing Huyck Felt Co., Division of F. C. Huyck & Sons, Rensselaer, N. Y.

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PACKOMATIC *Shows the way to increased efficiency in your BALE SEALING operation.*

- **ADJUSTABLE—to the accepted range of ASBESTOS Bale Sizes.**
- **AUTOMATIC—can be furnished with or without tucking device.**
- **NEW—engineered with the most advanced electrical and mechanical features available.**
- **STURDY—built for efficient-trouble-free performance to give long years of continuous service—finest workmanship and materials.**
- **CUSTOM—DEVELOPED OUT OF THE EXPERIENCE IN THE ASBESTOS INDUSTRY.**



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The Ruberoid Company
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We are represented in the principal cities of the United States, Canada and Overseas Export Offices in New York City.

Your direct inquiry will receive prompt attention.

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Asbestos Magazine, 1958, July 1958
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THIS AND THAT

The role of asbestos-cement structural sheets in fast, easy modern home construction is graphically illustrated in a new folder just published by Keasbey & Mattison Company, Ambler, Pa. Simple vertical-batten construction is the most dramatic application of the structural sheets in the creation of today's exciting exteriors.

Copies of this descriptive folder, BM-214, may be had by writing to Keasbey & Mattison Company, Ambler, Pa.

Application data on Bauer processing equipment for several major industries is available in Bulletin No. 58, a condensed 4-page catalog recently released by The Bauer Bros. Co., 1826 Sheridan Avenue, Springfield, Ohio.

Bauer's specialized laboratory facilities and engineering services are described in the catalog, which also contains data on the following Bauer equipment for pulp, paper and board mills; digesters, Centri-Cleaners, double and single disc refiners, "Pump Through" refiners and Pressafiners.

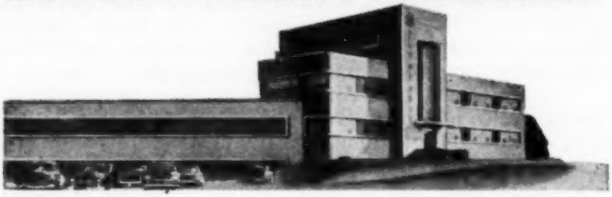
Prepared by the editors of ARCHITECTURAL RECORD, a professional magazine for architects and engineers, RECORD HOUSES of 1958 presents to the "home-building, home-buying" public a comprehensive view of the best contemporary architect-designed houses, adaptable to average sites, ranging in price from $16,000 to over $100,000.

In the "peaceful privacy" homes in RECORD HOUSES of 1958 two designs predominate. One features houses built around a court or several courts and is referred to as "The Court Yard Concept". The second style is the pavilion type house, often placed in a high-walled garden. Both types provide for "zoned living"—separation of living and sleeping areas—and flexibility.

RECORD HOUSES of 1958—230 pages; 8¾ x 11⅝; 283 photographs, plans and drawings including 9 in full color, is priced at $2.95 each.

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QUALITY-CONTROLLED...



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

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

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

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

FLINTKOTE MINES, LIMITED

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



Asbestos Magazine, 1958, July 1958
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General Industrial Co. has just introduced a handy circular Slide Rule for engineers and for other plant and office executives. Any executive who must perform simple calculations will find this convenient, pocket-size calculator extremely useful in his work.

Operation of the rule is simple and the results are accurate. To multiply, divide and find proportions is easy and exceptionally fast with this convenient circular rule. Complete easy-to-follow instructions will be included with each slide rule.

For your free Circular Slide Rule, write to General Industrial Co., 5738 Elston Avenue, Chicago 30, Illinois. To those who do not qualify as an engineer or other business executive to receive a free slide rule—General Industrial Co., will be pleased to send one for 50c.

A new fissured design in lay-in acoustical ceiling units has been introduced by Armstrong Cork Company, Lancaster, Pa. Called Armstrong Fissured Minaboard, the panels are incombustible and are designed for use in exposed-grid ceiling installations.

Tiny, sound-absorbing crevices scattered over the face of the material give Fissured Minaboard a distinctive appearance not previously available in large, fire-safe lay-in units. Made of mineral fibre, the new product is factory-finished with a washable paint.

Minaboard is rated "Incombustible—Class A" under Federal Specifications SS-A-118b, and carries the Underwriters' Label.

Complete Plants for making

ASBESTOS CEMENT PIPES

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

Plants designed, equipped and financed.

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Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P. O. Box 34.849

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Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gramigni)

for manufacturing



FITTINGS

OF EVERY SHAPE AND DIMENSION



—TOUGH
—RESILIENT
—COMPACT
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PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy
Cable: MINITA—MILANO **Phone: 26 67 27**

Asbestos Magazine, 1958, July 1958
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BUILDING

Construction contracts in the United States in May totalled $3,402,575,000, the highest figure ever reported for any single month, according to F. W. Dodge Corporation.

The May total was only a small fraction of one per cent above the previous record set in May, 1957, but it exceeded the third highest month (June, 1957) by 5 per cent.

Commenting on these new figures, Thomas S. Holden, Dodge vice chairman, said it was now evident that "construction is well past the bottom of the relatively mild recession it was experiencing in late 1957 and early 1958."

According to Mr. Holden, "the effects of the recession on construction as a whole were at no point as severe as in other important sectors of business activity, although it is true that some types of construction suffered more than others. As in the earlier postwar recessions, construction has remained relatively steady, and has helped to cushion the downward push on the economy. Now that construction is turning upward, other industries should also be stimulated."

The May construction contract total for non-residential building was reported by Dodge as $1,124,087,000, up a fraction of one per cent from May, 1957. Contracts for commercial buildings and factory buildings were down sharply, and educational buildings were off slightly, but other non-residential building types increased.

Contracts for residential buildings in May totalled $1,346,170,000, an increase of 4 per cent over May, 1957. The number of dwelling units covered by the May contracts was 104,048, the highest monthly total in two years and 2 per cent above May, 1957. The number of single family units was one per cent ahead of May, 1957, and the number of units in apartment buildings was up 14 per cent.

Heavy engineering contracts in May were $932,318,000, down 5 per cent from the same month of last year. Public utility contracts were down 33 per cent, but this was partially offset by a 9 per cent increase in public works contracts.

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THE

NEW HARDMAN

NEEDLE REINFORCED

ALL NYLON FELT

By special process for which patents have either been granted or applied for in many countries.

NOW AVAILABLE

AS SINGLE SHEETING CORROGATING FELTS

FOR HATSCHECK MACHINE

BOTTOM FELTS FOR 2-0-11 OR 5 MR. WAZZA MACHINES..

HAVE STRONGER SHEETS

HAVE LESS MARKING

OBTAIN LONGER FELT LIFE

Thomas Hardman & Sons, Ltd.
Fernhill Mills
Bury, England

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A.S.T.M. — 1957 PROCEEDINGS

The American Society for Testing Materials announces the publication of its 1957 ASTM Proceedings, Volume 57. The 1430-page volume, recording the technical accomplishments of the year, includes reports and papers together with discussion offered to the Society during the year and accepted for the Proceedings. The volume includes the Summary of Proceedings of the ASTM 60th Annual Meeting and the Summary of Proceedings of the Philadelphia Spring Meeting, listing by title and author the programs for each session.

It should be emphasized that in addition to the reports and technical papers, many of which have been given at the national meetings and some of which have been preprinted, the Proceedings contains much discus sion not previously published.

Copies of the Proceedings may be obtained from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa., at $12.00.

"ASBESTOS . . . THE MAGIC MINERAL"

On the occasion of its 100th Anniversary the Johns-Manville Co. has published a very attractive brochure — "Asbestos . . . The Magic Mineral".

The brochure describes the main industrial uses and applications which have contributed to the growing value of asbestos as an essential raw material in an ever increasing number and variety of products today.

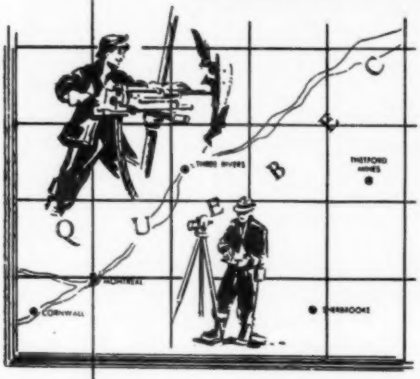
WANTED

Salesman — Estimator wanted—young, experienced in the steam, air-conditioning, cold insulation field, to work in the Baltimore-Washington area. Address Box No. 7M-B, "ASBESTOS", 807 Western Saving Fund Bldg., Phila. 7, Pa.

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BRANCHES

THREE RIVERS · MONTREAL · SHERBROOKE · CORNWALL, ONT.

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AUTOMOBILE SALES

	April 1958
Passenger Cars	322,482
Motor Trucks	73,886
Motor Coaches	344
	396,712

In April 19557, a total of 648,514 motor vehicles were sold. In the four months of 1958 the total was 1,856,289.

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

Because of the increasing costs of publishing "ASBESTOS" we find it necessary to increase our subscription rates, effective September 15, 1958. The new rates will be $3.00 in the United States and $4.00 in other countries.

We would like to point out that this is the first increase in subscription rates since 1925. Over the years we have used every means at our command to operate in such a manner that the original rates could be maintained. Now, however, we have reached a point where only through a substantial increase can we continue giving our readers the editorial content and the unique extra services we have so long tries to provide. We sincerely hope that our loyal readers and long time friends will appreciate the causes, beyond our control, which make this increase necessary.

" Tropag "
Hamburg —:— Ballindamm 6
Importers since 1909 of
ASBESTOS-ORES-MINERALS

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100%

pure Amosite Asbestos CAPOSITE Rope

You can insulate better and cheaper with Caposite Rope because it yields 3 times the footage of ordinary asbestos rope on a pound for pound basis. It can be reapplied repeatedly for service up to 750° F. The flexibility of Caposite provides easy application in all diameters from ½" to 2". Ask for Bulletin 101 and samples.

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In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East · Toronto, Ont. · Canada

CAPE

Subsidiaries of The Cape Asbestos Co. Ltd., London

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PRODUCTION STATISTICS

Canada

(Dept. of Mines, Province of Quebec)

Tons 2000 lbs.

Production for April 1958 (Quebec)	79,557	tons
Other Provinces	3,920	
	83,477	

Total production for April 1957 was 107,266 tons.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for February 1958	10,093.07	tons
Valued at	£716.819	
Production for February 1957	10,272.97	tons
Valued at	£711,455	

For Sale

FIRST QUALITY GOVERNMENT SURPLUS MATERIALS

Asbestos Cloth Woven Tapes

8500 pounds 2 x 1/8" on 100 foot rolls at 50¢ per lb.
500 pounds 3/4" x .025 on 108 foot rolls at $1.00 per lb.
500 pounds 1 1/4" x .025 on 108 foot rolls at 90¢ per lb.

Asbestos Tubing, Black, Cloth Braided, Flexible, Unarco Insulated Tube

1300 feet, 1/2" Inside Diameter x 1 1/2" Outside Diameter x 1/2" wall thickness at 7¢ foot
4500 feet, 1/2" Inside Diameter x 2" Outside Diameter x 3/4" wall thickness at 8¢ foot

All material offered subject to prior sale and to our usual terms of N/10 days, f.o.b. Oceanside, L. I., New York. Samples submitted on request.

PAM NARROW FABRICS COMPANY

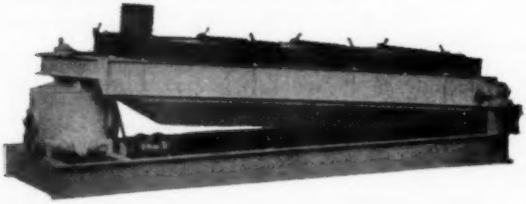
2807 Long Beach Road — Oceanside, L. I., New York

Always open to buy surplus asbestos tapes, sleevings and cords of all descriptions—send us your offerings.

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ROTEX® SCREENERS

GIVE PROFITABLE PRODUCTION!



ROTEX FEATURES

- Low head room
- No screen blinding
- Fast screen changes
- Dependable service
- Dust-tite construction
- Rugged construction

The nearly level, gyratory motion, pioneered in ROTEX, conveys material rapidly over screen surfaces with minimum vertical vibration or hop. This stratifies the material by particle size, rapidly passing undersize particles through the mesh openings. The results are clean separations exacting accuracy, coupled with high capacity. Designed for the operator's convenience, ROTEX Screeners pay for themselves by the economies they effect.

TO MEET THE REQUIREMENTS OF THE ASBESTOS INDUSTRY: Fourteen models—one or two screening surfaces—quiet running counter balanced drive—heavy welded structural steel base.

REPRESENTATIVE TO THE ASBESTOS INDUSTRY
IN P. Q., CANADA: Lynn MacLeod Engineering Supplies, Limited, Thetford Mines, Quebec.

THE ORVILLE SIMPSON COMPANY

1222 KNOWLTON ST. CINCINNATI 23, OHIO

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IMPORTS AND EXPORTS

Imports Into U. S. A.

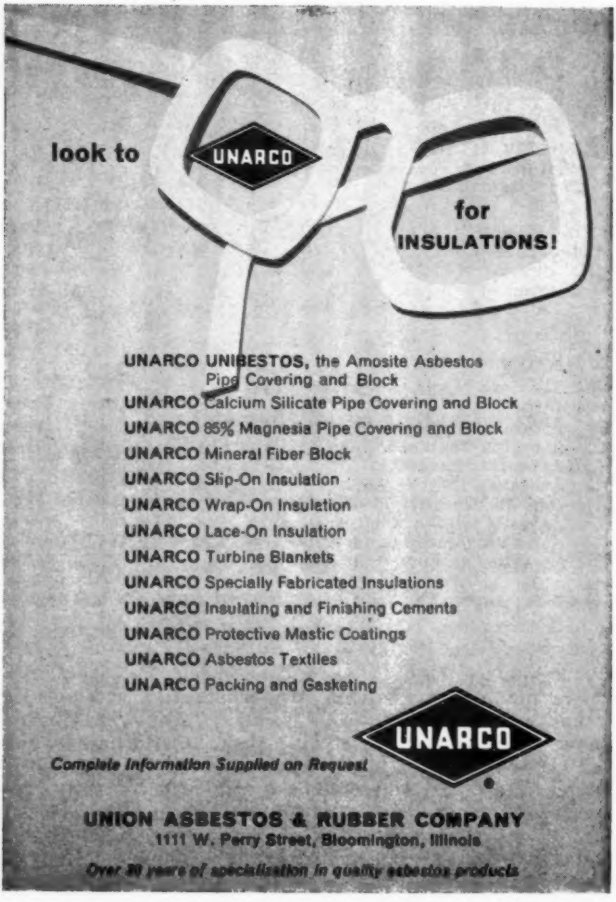
(Figures by Bureau of Census)

	February 1958 Tons (2240 lbs.)
Unmanufactured Asbestos:	
From: Canada	38,136
Union of South Africa	1,954
Australia	370
Rhodesia (Ny)	890
Other Countries	44
	41,394
Valued at	$4,170,653
By Grades:	
Crude No. 1, Chrysotile, Rhodesia (Ny)	22
Crude No. 1, Chrysotile, Other Ctys.	2
Crude No. 2, Chrysotile, Canada	18
Crude No. 2, Chrysotile, Rhodesia (Ny)	22
Crude, Other, Chrysotile, U. of S. Africa	202
Crude, Other, Chrysotile, Rhodesia (Ny)	846
Crude, Other, Chrysotile, Other Ctys.	4
Crude, Blue, Australia	370
Crude, Blue, U. of S. Africa	967
Crude, Amosite, U. of S. Africa	785
Textile Fibres, Chrysotile, Canada	1,237
Textile Fibres, Chrysotile, Other Ctys.	38
Shingle Fibres, Chrysotile, Canada	3,420
Paper Fibres, Chrysotile, Canada	3,210
Other Fibres, Chrysotile, Canada	30,251
	41,394

Manufactured Asbestos Goods:

	February 1958 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	20,662	$14,478
Other Countries	508	430
Asbestos Packing & Lining	7,515	4,103
Asbestos Shingles (Impreg.)	8,896	1,720
Abesbtos Shingles (Not Impreg.) Belgium	379.476	25,876

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Italy	288,157	11,550
Other Countries	94,247	789
Asbestos Manufactures—Others	.....	717
	799,421	$59,663

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufacured Asbestos:

	March 1958 Tons (2240 lbs.)	Value
To: Europe	109	$11,537
Mexico	39	5,289
Other Countries	118	16,936
	266	$33,753

Manufactured Asbestos Goods:

	March 1958 Quantity	Value
Asbestos Cement & Pipe Covering Lbs.	668,354	$ 112,128
Asbestos Textile & Yarn ..... Lbs.	61,514	71,622
Asbestos Packings ..... Lbs.	182,735	208,827
Asbestos Clutch Facings ..... No.	101,074	80,275
Asb. Bk. Lng. (Mld. & S. Mld.) Lin. Ft.	177,726	62,149
Asbestos Brake Lining, Other .... Lbs	483,504	439,130
Asbestos Construction Materials Lbs.	1,945,626	206,713
Asbestos Manufactures — Others	.....	55,436
		$1,235,280

Pipe-line repair men are constantly watching for "holidays" — pin holes or breaks in line wrappings. A new, efficient way of patching them is with narrow rolls of oil based polyethylene tape which can be applied by hand. First, a crewman cuts away the asbestos outer pipe wrapping. Then he applies strips of the adhesive plastic where needed. Advantage of the new tape is that it doesn't have to set; the pipe can be lowered into the ground right after wrapping. Competing transportation companies are always on the lookout for new methods like this to improve their operations, reduce costs, and pass the savings along to consumers.

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DURASORB FELTS

Making A Name in Asbestos-Cement

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

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

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



ALBANY FELT COMPANY

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

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Exports from Canada

(Published by Dominion Bureau of Statistics

Unmanufactured Asbestos:

	March 1958 Tons (2000 lbs.)	Value
Crude		
United States	13	$ 12,109
United Kingdom	....	.....
South America	....	.....
Central America & Mexico	....	.....
European Countries	....	.....
Other Countries	12	1,520
	15	$ 13,629
Milled		
United States	9,880	$2,059,564
United Kingdom	1,518	433,892
South America	318	47,548
Central America & Mexico	100	18,935
European Countries	917	248,427
Other Countries	2,121	440,037
	15,204	$3,309,383
Shorts		
United States	37,647	$1,931,956
United Kingdom	1,460	60,991
South America	338	20,223
Central America & Mexico	117	5,445
European Countries	194	14,806
Other Countries	184	13,048
	39,940	$2,045,479
Grand Total — Unmanufactured Asbestos:	55,157	$5,368,491

Manufactured Asbestos Goods:

Brake Lining	51,033
Packing	.....
Other Materials	9,752
	$60,785

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

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Direct from the Mines or from stocks in London

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TRANSVAAL BLUE • AMOSITE
CHRYSOTILE • ANTHOPHYLLITE

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Processing of all grades of Asbestos carried out in our London Works.

CENTRAL ASBESTOS Co., LTD.

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'Phone BERMONDSEY 3864 Cables CENBESTOS LONDON
CENTRAL ASBESTOS (S. A.) PTY LTD. P.O. BOX 3570 JOHANNESBURG

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Thomas L. Gatke, President, Gatke Corporation, Chicago, Ill., July 16.

L. U. Noland, Chairman of the Board, Noland Co., Inc., Newport News, Va., July 17.

Robert H. Porter, President, Keasbey & Mattison Co., Ambler, Pa., July 17.

G. F. Bahrs, Vice President & Treasurer, The Ruberoid Co., New York City, July 18.

J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, N. J., July 18.

R. F. Turner, Sales Promotion Manager, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 18.

C. B. Whitley, Secretary, Scandinavia Belting Co., Charlotte, N. C., July 20.

C. J. Backstrand, President, Armstrong Cork Co., Lancaster, Pa., July 21.

R. S. King, Chairman of the Board, The Philip Carey Mfg. Company, July 21.

W. S. Simpson, Director & Secretary, Raybestos-Manhattan, Inc., Bridgeport, Conn., July 21.

R. R. Galloway, Vice President, Fibreboard Paper Products Corp., San Francisco, Calif., July 22.

J. E. Hooker, Pacific Roofing Co., Portland, Oregon, July 22.

Roscoe E. Tallman, Director of Board, Tallman McCluskey Fabric Co., Kirkwood, Mo., July 22.

Charles A. Saitta, President, Asbestos Corporation of America, New York City, July 23.

C. R. Hubbard, Vice President, Garlock Packing Co., Palmyra, N. Y., July 25.

Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Ill., July 25.

Frank C. LeRow, Executive Vice President, Asbestos, Asphalt & Insulations, Inc., Chicago, Ill., July 26.

R. S. Hammond, General Sales Mgr., Building Products Division, Johns-Manville Corporation, New York City, July 27.

John Ozurovich, President, Atlantic Asbestos Corporation, New York City, July 31.

Harry H. Heckroth, Vice President, Penn Supply & Metal Corporation, Philadelphia, Pa., August 2.

C. W. Gregg, Treasurer & Director, The Flintkote Co., New York City, August 3.

G. P. Reilly, Plant Manager, Smith Asbestos Products, Inc., Millington, N. J., August 5.

A. P. Keasbey, President, Robert A. Keasbey Co., New York City, August 6.

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ASBESTOS FIBRE

OF ALL TYPES

BRANDHURST COMPANY LIMITED

Vintry House

LONDON

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(Private Branch Exchange)	London

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John Dragisic, President, Inland Insulation Co., Chicago, Ill., August 9.

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

Matthew L. Ladden, President, Ladden Asbestos Corporation of N. J., Irvington, N. J., August 15.

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

UNITED STATES RUBBER CO.

New Appointments

United States Rubber Co. has appointed three assistant directors of research and development to streamline its research activities and speed new developments from the laboratory to the production plant.

Dr. Arthur E. Brooks will now direct all research on materials, *T. J. Rhodes* will head up all engineering research and *Dr. D. Lorin Schoene* will direct liaison between the research and development department and the manufacturing divisions.

Dr. Brooks, who obtained his doctorate degree in physical chemistry became a research chemist in the company's general laboratories in 1929. He was appointed manager of the general laboratories in 1950, and was named manager of the company's new Research Center in Wayne, N. J., when it was opened last year.

Mr. Rhodes joined the company in 1942 as process engineer of a munitions plant it was operating in Des Moines, Iowa. He was assigned to the general laboratories in 1944 as a development engineer, and was named associate manager of its engineering department the following year. Since 1953 he has been manager of the Mechanical Engineering Research Department.

Dr. Schoene was appointed a research chemist in the company's general laboratories in 1939. He spent three years in the Far East as a chemist on the company's rubber plantations, and in 1942 was assigned to the Naugatuck Chemical division. In 1953 he became assistant director of research and development for the chemical division, and in 1957 was appointed director.

FIBREBOARD PAPER PRODUCTS CORPORATION

Appointment of *J. C. Croudace* as plant manager, Portland Roofing Plant of the "Pabco" Building Materials Division of Fibreboard Paper Products Corporation has been announced.

He succeeds *Walter Simon* who has been promoted to the new position of purchasing agent, construction and equipment, at the company's headquarters, 475 Brannan Street, San Francisco.

The Portland Roofing Plant is located at 6350 N.W. Front Street, Portland, Oregon.

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ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

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ASBESTOS TEXTILES

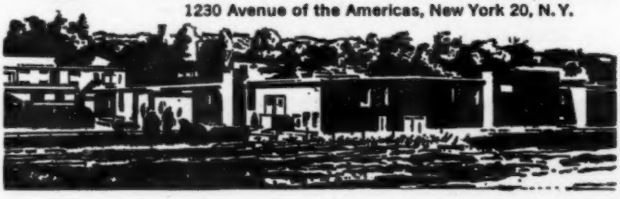
are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

US RUBBER

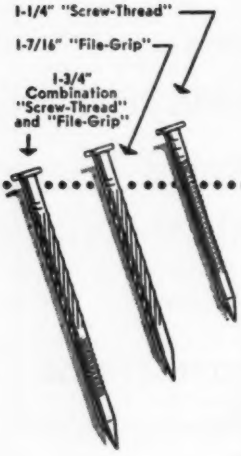
Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.



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new!

nichols
NEVER-STAIN

PAINTED
ALUMINUM
ASBESTOS FACE
Nails

TO MATCH
THE *NEWEST*
COLORS IN
ASBESTOS SIDING

- PAINTED TO MATCH YOUR EXACT COLOR REQUIREMENTS
- EXCELLENT PAINT ADHERENCE
- AVAILABLE IN ALL COLORS AND WHITE

Your products deserve the best fasteners available. Protect their beautiful colors with inconspicuous NICHOLS RUSTPROOF PAINTED ALUMINUM NAILS. We will paint aluminum asbestos face nails to meet your exact color-match requirements; also available in the satin etched finish. Write today.

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DAVENPORT, IOWA

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CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

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ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue — E. Rutherford, N. J.

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JOHNS-MANVILLE CORPORATION

Changes in Personnel

W. R. Wilkinson, a senior Vice President of Johns-Manville Corporation, became General Manager of the company's Building Products Division in an executive realignment designed to meet "new and challenging problems" in the building industry.

Mr. Wilkinson will be succeeded in his former post of Vice President, for Sales by *J. A. O'Brien*, another senior Vice Presi- of J-M, who has been Vice President for the companys Industrial Products Divisions since 1955. Mr. Wilkinson fills a vacancy created some time ago by retirement for ill health of Harold R. Berlin.

He is a veteran of 33 years service with Johns-Manville, 25 years of which have been in sales and merchandising management.

Mr. O'Brien began his career with Johns-Manville in 1915 and for the past 43 years has served in many important phases of Johns-Manville management with emphasis on sales, production and sales promotion. He was General Manager of the Industrial Products Division until 1955 when this division was split into three separate Divisions, each headed by its own General Manager. Mr. OBrien continued as executive head of the three industrial divisions until his election as Vice President for Sales.

NYQ ANNOUNCES NEW USES FOR NOLANE

New York Quinine & Chemical Works advises that its new fibre glass finishing agent, NOLANE (formerly called NOL-24), can also be used to improve carborundum and asbestos products.

Carborundum treated with NOLANE and formed into grinding wheels with epoxy resins is said to produce wheels of greater strength.

When asbestos is treated with NOLANE, better wearing qualities on brake shoes are claimed.

Commercial and experimental quantities of NOLANE are now available from New York Quinine & Chemical Works, 50 Church Street, New York 8, N. Y.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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THE RUBEROID CO.

Changes In Personnel

The Ruberoid Co. has announced three promotions in the company's sales organization.

W. G. Neel, sales manager of the Denver, Colorado district, became manager of Ruberoid's asbestos fibre division on July 1. He will make his headquarters in New York City. He joined Ruberoid in 1954 as special assistant to the vice president in charge of sales, was made Salt Lake City district sales manager the same year and took over the combined Denver-Salt Lake City district in 1957.

James C. Murphy, assistant sales manager of the Dallas, Texas district, became sales manager at Denver. He became assistant sales manager at Dallas in 1955, and has been a member of the Ruberoid Sales organization since 1951.

Frank J. Schmitt, Jr., sales representative at Oklahoma City has been made assistant sales manager at Dallas. He joined Ruberoid in 1929 as a planning clerk. He became office manager of the company's St. Louis plant in 1935 and worked as assistant to the general superintendent from 1943 to 1947 when he became a sales representative in Oklahoma.

CSR

THE COLONIAL SUGAR REFINING CO. LTD.

SYDNEY, AUSTRALIA

Sole Distributors for

AUSTRALIAN BLUE ASBESTOS LIMITED
MINES AT WITTENOOM, W.A.

SOLE SELLING AGENTS

- **Minerals Fibres Ltd., Market Buildings Mark Lane, London**
  Argentine, Belgium, Brazil, Chile, Colombia, Denmark, France and French Morocco, Egypt, Eire, Great Britain, Holland, India, Israel, Italy, Mexico, Norway, Pakistan, Peru, Portugal and Portuguese Africa, Spain, Sweden, Switzerland, Turkey, Uganda, Uruguay, Venezuela.
- **Carters (Merchants) Ltd., Winchester House Old Broad St., London**
  Austria, Czechoslovakia, Germany, Hungary, Japan, Poland, U.S.S.R., Yugoslavia.

Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It has excellent spinning properties. Samples are available on request.

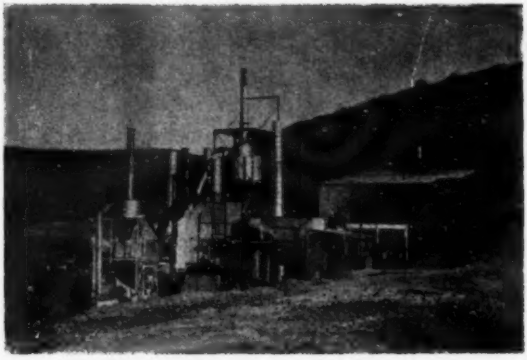
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Antony Gibbs & Co., Inc.

61 Broadway

New York 6, New York

Tel. Digby 4-6580



View of Blue Asbestos Reducing Mill

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

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CAPE ASBESTOS COMPANY LIMITED

Annual Meeting

The Sixty-fifth Annual General Meeting of The Cape Asbestos Company Limited was held on June 12th, 1958 and reports and balance sheets as of December 31, 1957 were submitted.

The net profit of the Group after all charges except taxation, amounted to £1,421,021 against £1,154,595 last year, and enabled the Board to recommend the payment of a final dividend of 12½% which, with the interim of 5% declared last December, makes a total distribution of 17½% as compared with 15% in the previous year.

In the United States, the North American Asbestos Corporation increased its level of business and maintained a satisfactory profit margin. During the year its capital was increased from 1,000 dollars to 100,000 dollars by utilizing reserves derived from earnings. A considerable effort is being made to expand sales of ASBESTOLUX in the United States, involving a relatively costly sales promotion program, part of which has been borne in 1957, and it is hoped that results will be reflected in 1958 and 1959.

Cape Asbestos (Canada) Ltd. was less successful, due to the trade setback and severe competition in Canada. The manufacturing offshoot, owned jointly with Holmes Foundry Ltd. had a profitable year.

At home, Cape Building Products Ltd. had done well with its range of flint bricks, ASBESTOLUX ROCKSIL and other products and had increased both its volume of business and profit.

MINING JOURNAL ANNUAL REVIEW NUMBER

The annual review number of the Mining Journal published in London (15 Wilson Street, Moorgate, London, E.C. 2) was issued recently and contains over 300 pages. Many special contributed articles, reporting on the mining industry throughout the world during 1956 are among its contents. The contents can be roughly grouped as Metals, Mining and Metallurgical Developments, The World's Mining Fields, and Progress During the Year, covering the various mining fields.

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Importers, Exporters, Processors
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Coming in Mid-1958:



New Source of Quality Chrysotile

ASBESTOS

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

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

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

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

A Subsidiary of

AMERICAN SMELTING AND REFINING COMPANY

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THE RUBEROID CO. RECEIVED AWARD

Employees of The Ruberoid Co. at Joliet, Ill., received the National Safety Council's Award of Honor. The highest recognition that can be given for an outstanding safety record.

The plant earned the honor by operating 1,958,355 man-hours without a disabling injury from July 25, 1956 to March 21, 1958. This achievement established the best safety record in the industry.

At a ceremony at the plant, *Edward M. Railton* of Chicago, vice president, presented the plaque to plant superintendent, *A. A. Maxwell*, who accepted it on behalf of the entire organization.

CURRENT RANGE OF PRICE

As of July 10, 1958

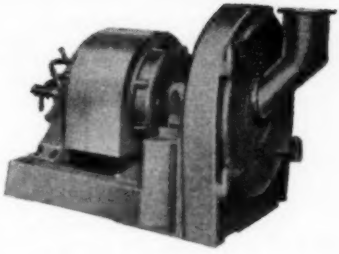
ARIZONA—	Per Ton of 2,000 lbs., f.o.b Globe, Arizona	
No. 1 Crude (soft)	$1,500.00 to	$2,000.00
No. 2 Crude (soft)	1,000.00 to	1,350.00
No. 3 Crude (soft)	400.00 to	675.00
Filter Fibre (soft)	250.00 to	475.00
No. 1 Crude (semi-soft)	1,200.00 to	1,500.00
No. 2 Crude (semi-soft)	900.00	
No. 3 Crude (semi-soft)	400.00	

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency	
Group No. 1 (Crude No. 1)	$1,475.00 to	$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00 to	1,200.00
Group No. 3 (Spinning Fibre)	370.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.....	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 3 (Spinning & Filtering)	$ 381.00 to	$ 440.00
Group No. 4 (Shingle Fibre)	185.00 to	205.00
Group No. 5 (Paper Fibre)	123.00 to	155.00
Group No. 6 (Waste, Stucco or Plaster)		88.00
Group No. 7 (Refuse or Shorts)	42.00 to	77.00

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Bauer



Single Revolving Disc Mills

for your wet grinding

In this type of mill, one disc rotates while the other remains stationary.

These famous Bauer machines are used for wet applications in the asbestos industry . . .

1. To reduce coarse particles—1/16" and larger.
2. To deflock fiber bundles in asbestos slurry, for the production of both paper and cement.

Our mills are adaptable to many specific purposes. We take pride in engineering installations to meet exact requirements. When we encounter new problems, we make tests in our fully equipped research laboratories.

You are invited to consult with us.

THE BAUER BROS. CO.
1826 SHERIDAN AVE.
SPRINGFIELD, OHIO

CANADIAN AGENTS:—Lynn Macleod Engineering Supplies Ltd., Thedford Mines, P.Q.
EXPORT AGENTS:—M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.



Bauer-McNett Classifier

A widely used device for classifying any sample of slurry into a number of fractions, each containing fibers of the same approximate length. Ask for literature.

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A. W. KNIGHT JOINS THORPE INSULATION

Arthur W. Knight, recently retired from Johns-Manville Corporation, after serving 43 years as Regional Sales Manager of the Pacific Region of the Industrial Insulation Division, is now associated with the Thorpe Insulation Company of Los Angeles.

ASBESTOS STOCK QUOTATIONS

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

		June 1958		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	34⅞	38½	37½
Amer. Br. Shoe (Pfd)	100	...	....	....
Armst. Ck. (Com)	1	24¾	27⅜	27¼
Armst. Ck. (Pfd)	np	87	90	89¼
Asbestos Corp. (Com)	np	29½	31	30
Carey (Com)	10	25¼	26¾	26¼
Cassiar Asb. Corp.	np	$7.60	$7.90	$7.90
Celotex (Com)	1	27	29¾	29½
Celotex (Pfd)	20	19⅜	19⅞	19¾
Certainteed (Com)	1	9⅜	10⅝	10½
Fibreboard Paper Prod. (Com)	np	26⅝	28	27⅝
Fibreboard Paper Prod. (Pfd)	100	99	100½	100½
Flintkote (Com)	5	41⅛	43⅞	41⅞
Flintkote (Pfd)	np	91	94	91
Johns-Manville (Com)	5	37¼	38⅞	38⅛
Natl. Gypsum (Com)	1	46½	47⅞	47⅜
Natl. Gypsum (Pfd)	np	98½	100	97
Ray-Man (Com)	1	49	50½	50¼
Ruberoid (Com)	1	34⅛	35⅞	34⅝
Thermoid (Com)	1	10¾	11¼	10⅞
Thermoid (Pfd)	50	45½	46½	46½
Union Asb. & Rub. (Com)	5	8¼	9¾	9¾
United Asb. (Com)	1	$6.50	$7.50	$6.90
U.S. Gypsum (Com)	4	75⅝	79	78
U.S. Gypsum (Pfd)	100	168	169½	169½
U.S. Rubber (Com)	5	32¾	34⅝	34¼
U.S. Rubber (Pfd)	100	144¾	151	149¼

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RAW ASBESTOS DISTRIBUTORS

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FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
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ASBESTOS CHAPTER
Preprint from 1956 Minerals Yearbook

The 1956 Chapter on Asbestos from the U. S. Minerals Yearbook, published annually by the U. S. Bureau of Mines, has just arrived. All "ASBESTOS" readers who have collected an Asbestos Library, will want a copy. Send 10c (in coin) to the Superintendent of Documents, U. S. Government Printing Office, Washington, 25, D.C.

It contains salient statistics of the Asbestos Industry in the United States, including a table of World Production of Asbestos, (by countries) 1951 to 1956 inclusive.

Other information on the Asbestos Industry in 1956 which the pamphlet contains will, no doubt, be of interest to our readers.

BELL'S ASBESTOS & ENGINEERING

The annual meeting of Bell's Asbestos and Engineering (Holdings) Limited was held on June 10 at Slough.

The Group's Net Profit before taxation is £603,750 against £685,024 and £15,968 more than the average for the five years 1952 to 1956 inclusive.

Just as the original "parent company" Bell's Asbestos and Engineering has been described as the backbone of the business at home so of their Overseas Subsidiaries those in Australia and South Africa, both of which have celebrated their Diamond Jubilees, stand as the bulwarks of their enterprises beyond the seas.

BAUER BROS. CO. NOW REPRESENTED IN MEMPHIS

Herman Fryer, southern division sales representative for The Bauer Bros. Co. of Springfield, Ohio, has moved to 1675 Peach Street, Memphis, Tenn.

Formerly located in Fort Worth, Texas, Mr. Fryer has been transferred to Memphis because of a recent revision in sales territories by The Bauer Bros. Co. He will handle machinery sales for the milling, oil milling and food industries. He will work closely with Bauer's district office at Jacksonville, Florida, servicing all accounts in the Delta area and providing temporary management in the Texas territory.

ASBESTOS-CEMENT MACHINERY

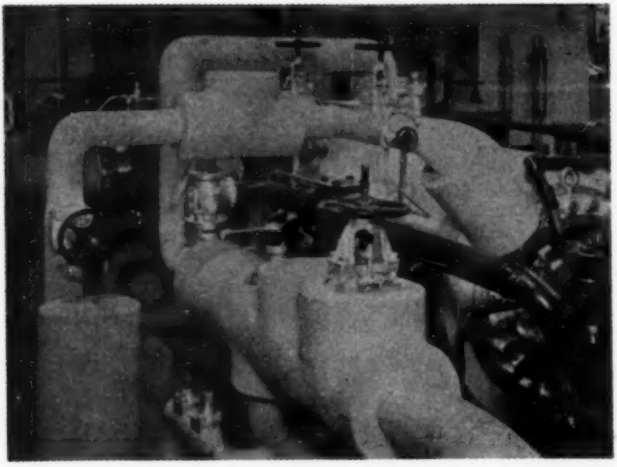
Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

Your inquiries are most welcome

LINCOLN IRON WORKS
(Successors to Asbestos-Cement Associates, Inc.)
255 West Street Rutland, Vermont

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Maximum control of temperatures with
PABCO PRECISION-MOLDED CALTEMP
a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations.
For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

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

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

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PATENTS

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

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

Method and Apparatus for Forming Calcium Silicate Products, No. 2,836,848. Granted on June 3, 1958 to H. F. Zink, W. C. Taylor and C. D. Pawlicki (assignors to Owens-Illinois Glass Co., a corporation of Ohio). Improved mechanism and method for manufacturing molded calcium silicate products, for example insulating pipe covering, from a slurry of lime, silica, asbestos fibre and water. Water to solids ratio may be within the range 3:4 to 7:1, by weight. Each mold has its own individual indurator, with individual control therefor.

Indicator For Water Content of Liquids, No. 2,836,974. Granted on June 3, 1958 to W. O. Krause (assignor to Ansul Chemical Co., Marinette, Wisc.). Method for using a mat of inert materials, for example asbestos fibre, in the determination of excess water in halogenated refrigerants, oils, gasoline, etc. The asbestos fibre mat is saturated with a liquid of low water solubility and then anhydrous cobaltous bromide is dispersed through the soaked mat.

Mixture of Vinyl Resin, Aromatic Acid, and Asbestos Containing Iron Oxide, No. 2,837,490. Granted on June 3, 1958 to A. C. Hecker (assignor to Argus Chemical Laboratory, Inc., a corporation of N. Y.). A composition useful for the manufacture of floor tile comprises polyvinyl chloride resin, a resin stabilizer, Iron-containing chrysotile asbestos fibre, and fillers or other additives as needed. The asbestos should not be acid washed or otherwise treated to remove its original iron content.

Protective Coating Composition, No. 2,838,414. Granted on June 10, 1958 to Claude J. Dunphy and Clinton J. Dunphy. A durable, non-cracking and economical thick paint for application over metal or wood roofs comprises thinned coal tar, powdered aluminum, ground asbestos, gypsum and lead oxide. Asbestos co-operates with the tar and powdered aluminum to prevent sagging of the finished roofing coating in hot weather.

Machines For Treating Asbestos and Similar Fibres, No. 2,838,246. Granted on June 10, 1958 to S. M. C. Adorno and G. Vercelli. Impact machine for de-fiberizing asbestos, and especially for the production of grades of fibre suitable for asbestos-cement products. Operation of the apparatus is based on three principles; automatic selection by centrifugal force of the fibre to be treated; differential action of beater members; and a differential suction designed to promote selective removal of treated fibre. Suction apparatus in center of centrifuge draws off fluffed or opened fibre bundles at the desired stage, while leaving unopened and partially opened bundles to be further

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

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

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impinged against the inner wall elements. Individual fibres are adequately separated but not broken up.

Fireproof Acoustical Correction Panels, No. 2,838,806. Granted on June 17, 1958 to H. J. Sabine (assignor to The Celotex Corp., Chicago, Ill.). Composition for and method of making fireproof acoustical correction products. A typical combination consists of a fibered, gypsum-base core faced on one side with porous paper and on the other with fire resistant paint. The core composition comprises gypsum stucco, pulverized wollastonite, asbestos fibre, a core adhesive, an accelerator, and a rosin soap.

Electrostatic Separation Method, No. 2,839,189. Granted on June 17, 1958 to H. B. Johnson (assignor to Quaker Oats Co., Chicago, Ill.). Improved method for recovering asbestos from its ores by simultaneous application of electrostatic and pneumatic forces. Fibre bundles are opened up and the fibre recovered in undamaged state by this method. Efficiency of the process is not adversely affected by atmospheric changes.

GEORGE J. PECARO, PRESIDENT OF FLINTKOTE ADDRESSES N. Y. SOCIETY OF SECURITY ANALYSTS

The Flintkote Company "anticipates earning its dividends" in the second quarter this year as the company's building materials lines are showing "a drastic increase" in volume, *George J. Pecaro*, president said before a meeting of the New York Society of Security Analysts.

Stating that Flintkote is "still optimistic" for the full year's results, Mr. Pecaro also revealed the acquisition through an exchange of common stock of The Utah Lime and Stone Company. Terms of the acquisition call for Flintkote to issue 19,125 additional common shares in exchange for all of the outstanding Utah Lime stock.

In the first quarter this year Flintkote sustained a net loss of $151,435 compared with net income of $973,104 in the corresponding period last year. Net sales for the first quarter, affected by "a combination of short term factors", declined 11.3 per cent from a year ago to $22,506,159.

BUVOHA TRADE LETTER — 1958

The above publication contains a great number of addresses of industrial and commercial firms in the Netherlands interested in trade relations with firms abroad.

"Buvoha" was founded in 1903 by the Netherlands Society for Industry. Its object is to further the interests of the Netherlands industry, trade, agriculture, fishery, shipping, etc., by supplying practical information.

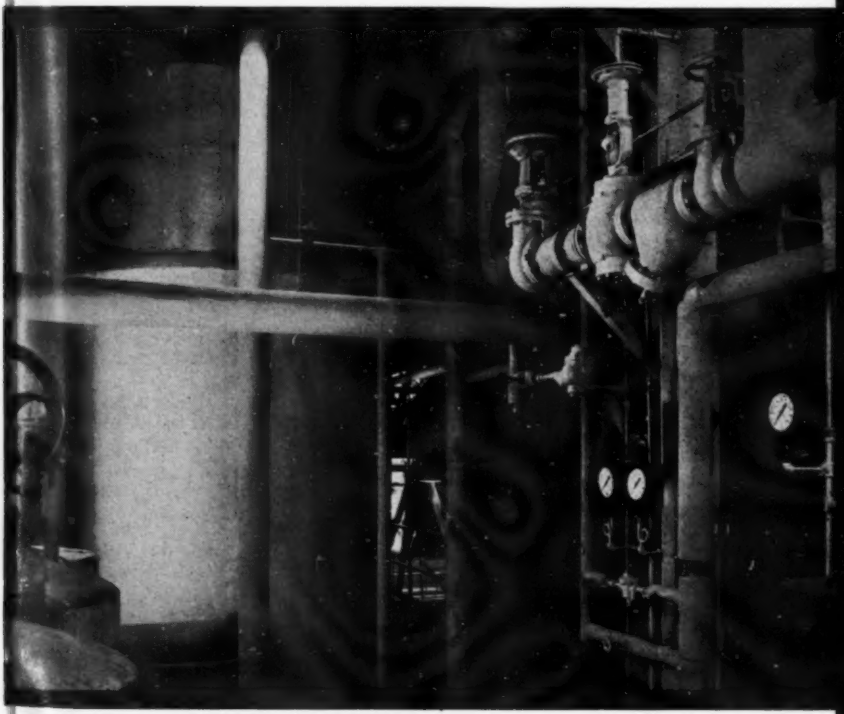
Firms interested in business relations with Dutch firms can apply for a free copy by writing to the Bureau Voor Handelsinlichtingen (The Commercial Intelligence Office), 16 Oudebrugsteeg, Amsterdam C., Holland.

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