ASBESTOS

Vol. 6 SEPTEMBER 1924 No. 3

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... ASBESTOS ...

A MONTHLY MARKET JOURNAL

DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER — EDITOR

PUBLISHING OFFICE

246 NORTH 17th STREET

PHILADELPHIA, - PENNSYLVANIA

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

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SUBSCRIPTION PRICE

U. S., CANADA AND MEXICO	$1.00 PER YEAR
FOREIGN COUNTRIES	2.00 " "
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The Far West

By J. M. Weaver

Sales Manager, Keasbey & Mattison Company

The Editor of "ASBESTOS" has requested an account of a trip made recently thru the Far West, and outlined it under three headings: my impressions of the country, business conditions generally, and asbestos business particularly.

Impressions came in an amazing continuity of startling surprise, notwithstanding the fact that a pretty thoro knowledge of the West had been acquired from time to time. No combination of words can paint a picture so that the reader can see it as the visitor sees it.

The Northern Pacific Comet carries the traveller thru the beautiful region of Minnesota's thousands of lakes, over the flat plains of the North Dakota, into the Bad Lands, and on thru mountains of picturesque grandeur.

The long ride across the plains makes the traveller appreciate more keenly the change of scenery that grows always more wonderful as the journey continues. The Bad Lands *are* amazing. Chaos reigned when they were formed. "Bad" is only faintly descriptive; "Lands" is a misnomer. The formation is rocky, chaotic, weird and depressing; gullies and buttes, cliffs and canyons, little rocks and big ones. Here and there a little patch of green lying among the desolate hills,—rather an area trying to be green with grass that is more yellow or brown. Scrubby sage brush, with its dusty grey leaves, is the predominating vegetation where any exists. And Roosevelt lived near the center of that region!

The side trip to Yellowstone Park, from Livingston, Montana, to Gardiner, takes the tourist up the Yellowstone River, between mountains on which are seen areas of perpetual snow. The Northern Pacific Railway Company gave some thought to the naming of stations on that branch line; first one beyond Livingston is Pray,—advice the traveller can take to heart as the train winds around cliffs and over spindly bridges.

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Transportation changes to motorbus at Gardiner, the trip thru the Park being over gravel roads. There are a number of very good books that tell the story of Yellowstone Park but to enjoy the wonders of nature, one must see the Park. The English language has not been sufficiently developed to convey to a reader the impressions received when beholding the Mammoth Hot Springs, geysers, boiling colored mud ("paint pots"), Yellowstone Lake, and the multi-colored walls of the Grand Canyon of the Yellowstone, into which pitches the sparkling green waters of the Yellowstone, down hundreds of feet to boil and churn thru twenty miles of tortuous canyon.

From the Park to Seattle is a long jump, over mountains and thru valleys, past mines, forests, farms and orchards. Seattle "arrived" as a city years ago. The people could be set down in Philadelphia, New York or Boston, and would only be recognized by their characteristic cordiality. Welcome to the eastern visitor by the resident of the West is well worth mention and praise. It is one of the impressive impressions received by the visitor anywhere in the Far West.

From Seattle to Los Angeles in a Packard was a deeply appreciated change in method of travel, with stops for a few days in Portland and San Francisco. Our trip was made on the Redwood Highway, over the Oregon and California Mountains, a road surely without a counterpart for turns, twists and grades—nearly a hundred miles thru wild regions where not a dozen visible habitations were passed. But it took us thru the Redwood Groves close to the Pacific.

Imagine lying back in the car in order to see the tops of the trees, trees so large at the base that many of them could be cut out to make a room large enough to hold our car. Not just a few big trees, but uncounted thousands of them, extending from near the Oregon boundary southward for a hundred and fifty miles. The trees occur in groves, one of which was about twenty miles in length.

California is dry. The rivers are dry beds. Lake Tulare, shown on maps only twenty-five years ago as a large lake, is now farmland. For the past three years there has not been much rain, and last winter but little snow in the mountains. In Yosemite Park, we walked two-thirds

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across Mirror Lake. Yosemite Falls are dry, and very little water is falling over Bridal Veil Falls. But Yosemite is beautiful just the same, even tho our visit happened at a poor season.

It is unwise to compare San Francisco and Los Angeles. I made many good friends in both cities. Take my word for it—both cities are places for all of us to be proud of. Los Angeles, of course, is the largest; the boundary begins thirty-four miles out in the hills and runs from the center of the city south about twenty miles to San Pedro on the Coast.

The visit to the Grand Canyon was brief, but filled with wonderful enjoyment. No description of the Grand Canyon will satisfy—neither words nor brush can portray its mystery and charm.

We crossed the Mojave Desert on a cold day (so the porter assured us)—it was only 118 degrees.

Pikes Peak by motor is an inspiring trip. The snowstorm was not—and the hail and lightning! But Western Colorado is the tourists' paradise—as yet hardly known and little appreciated. The day is coming when Colorado will be the scenic wonderland. Switzerland has only nine peaks 14,000 feet or higher. Colorado has 46 and 26 of them are higher than Pikes Peak. Ouray, Colorado, is the Gem of the Rockies,—a natural amphitheatre, enclosed by precipitous mountain walls, exhibiting 22,000 feet of the earth's formation. Hot springs of mineral water, water falls and rocky canyons are within the city's boundaries. At the head of the beautiful Uncompahgre Valley, Ouray is surely the future tourists' Mecca of the mountains.

So much for impressions, tho only a few of the many have been given.

Business conditions in the Far West are just the same as in the East. The lumber mills, however, are entirely closed in many places. The gold mines of California are operated at only about third capacity. Farming has been injured by the prolonged drought. The many thousands of orchards have had sufficient water for irrigation and crops are good. Stock raising in California has had a bad set back by the hoof-and-mouth disease, which caused the destruction of thousands of cattle during recent months.

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IMPORT

EXPORT

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The oil business of California continues to grow. Many new wells are being drilled. The California well is a pumping well, and produces for many years. They are all deep, many about a mile.

The Asbestos business on the Coast and thruout the mountain states is limited, naturally. There is not a great deal of it. The two Magnesia plants on the Pacific Coast are operating at least part time.

The outlook for development of increased business in asbestos products thruout the Far West is not encouraging for the immediate future. The manufacturing capacity of the industry, East and West, is far greater than present consuming demand.

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Little Stories of Success

V. The General Equipment Co., Charlotte, N. C.

In writing the histories of the larger contracting firms in the Asbestos-Magnesia line, one feature seems to stand out prominently in all, and that is the fact that all of them have attained their success, thru hard, honest work. To our mind no greater compliment can be paid to these firms. Many of them started with practically nothing but the hands and brain of one, two, or in some cases three men.

The General Equipment Company, of Charlotte, N. C., is one of these hard-working, successful firms.



C. W. ALLISON
The Active Manager of the General Equipment Company

Perhaps all of their success cannot be attributed to the Asbestos-Magnesia line, for they handle two distinct groups of materials, at first glance seemingly unaffiliated — insulation and wire fence. The two lines fit rather well together after all, for after a new factory has had its pipe lines insulated, it is quite likely that they will shortly require a fence to enclose their property.

C. W. Allison, President and Treasurer of the General Equipment Company, and its very active head, was born on February 4th, 1883, at Mebane, N. C.

Mr. Allison entered the insulation game in 1906, as Cashier for the Charlotte branch of the Philip Carey Com-

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pany. Later he became Assistant Manager, holding that position until 1911, when he left the employ of the Philip Carey Company for another field. In 1917, however, he returned to Carey and remained with them until the spring of 1920, when he organized the General Equipment Company. Associated with Mr. Allison are N. J. Orr as Vice President, and H. O. Allison, Secretary.

The Company was formed primarily for the selling of Asbestos and Magnesia insulating materials. Later, desiring to enter the cold storage field, a connection was made with the United Cork Company for the handling of cork coverings.

Since the Company's salesmen are in constant touch with the Textile Mills, it was believed that the account of the Page Steel & Wire Company, of Bridgeport, Conn., exclusive makers of wire fence from Armco Ingot Iron, could be profitably handled, and three years ago this line was taken on. In developing the fence side of the business, Mr. J. D. Hill, who has built fences from the Canadian border to the Gulf of Mexico, was employed and put in full charge of the fence department.

Perhaps the most remarkable feature of General Equipment Company service is its underground insulation work. In February 1922, C. W. Allison was granted trade mark for "Undabestos" a covering made especially for underground steam lines. This covering is very popular with engineers.

A word as to the construction of Undabestos may be of interest. It is made up in cellular form, being hard, and water repellent, as well as non-heat-conducting. The covering is applied in two layers all end and longitudinal joints being sealed by a special process. Mills and institutions which use underground steam lines to convey heat from one central boiler room to outlying buildings, find Undabestos very efficient. A recent installation made by the General Equipment Company had 6,000 feet of steam line, and another totalled 8,000 feet.

The Company, which is but five years old has steadily increased its business year by year, sales in 1923 exceeding those of any previous year.

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MARKET CONDITIONS

"Developments of the past few weeks point distinctly to a decided recovery in business this fall," notes the September issue of the Industrial Digest, and goes on further to say: "We do not look for any sensational production or sales records, but for a steady, normal volume of business, with a fair margin of profit and improvement in the credit situation and lower business mortality figures. Iron and steel mill activity has increased somewhat. The automobile trade is in a much stronger position than it was at the beginning of the summer, with inventories reduced and production schedules brought into line with actual demand."

On the whole the general business outlook is regarded as encouraging.

What about asbestos?

Raw Material. In the raw material market we find a little more activity in Canadian Crudes, due principally to the higher prices being asked for Rhodesian fibres. In the other grades the situation is little changed, some very low prices being reported on some of the lower grades in certain quarters.

Asbestos Textiles. There has been little or no development of importance in the textile market within the last several months. Prices have been low all along and occasionally seek still lower levels when someone gets an idea that a particular piece of business is worth having, even at a loss.

In brake lining the volume is good, and now that production of automobiles is on the upward trend again, should improve.

Asbestos Paper. "Just jogging along" is about the best way to describe this market, but the condition of this division of the industry appears to be just a little better than other lines.

Insulation. Of course Autumn is the Insulation season and distributors and contractors report increasing business even as early as the middle of August. There is, naturally, keen competition, which means low prices.

Shingles. The fall shingle trade seems to be making an excellnet record. The shingle line appears to be more regular than in earlier years—that is a steadier demand all year round with less seasonal trade.

Such is the picture of the market we get by a process of combination of opinions from various sources. Does it agree with your idea of the market situation?

An advertisement in "ASBESTOS" puts your product prominently before every Asbestos miner, manufacturer, broker, contractor and distributor, and is the most economical and effective method by which to reach those classes.

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Asbestos Fibre Spinning Company

North Wales, Penna.

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EDITORIALS

The Increasing Improvement of Business.

Whether the Coue' method really does work, and the mere repetition of optimistic forecastings made the prophecies come true, or whether it was just in the nature of things, is in doubt but in any case no one can now deny that general business conditions made a turn for the better in July and since then have been steadily improving.

There were some who argued all along that July was the turning point, but others were more cautious and refused to commit themselves until results could be read in dollars and cents, or in tonnage.

Perhaps this very caution tends to make the improved conditions more stable.

"Forbes" has been contending for the past several months that the fundamentals were sound, and that curtailment of purchasing was rather to be looked upon as a favorable sign than otherwise.

There is no longer need to boost optimism; indeed some few of us are tempted to regard conditions in too rosy a light.

After all there has been much to encourage us besides the recognized improvement. The selection of Presidential candidates for instance, the higher prices for farm products, and above all, the acceptance of the Dawes plan by Europe. "Restoration of economic stability in Europe cannot help but benefit this country," remarks the Industrial Digest. And added to these factors is the decidedly better outlook in three very important industries—steel, textiles and automotive.

The condition in the Asbestos Industry will be discussed on other pages, but the improvement generally surely should encourage the Asbestos field in particular.

Reminders.

The memory of man is exceedingly short. Unless really interested in some subject, the details of it, and often the subject itself, sink into oblivion before the passing of a day.

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ASBESTOS PAPER AND MILLBOARD

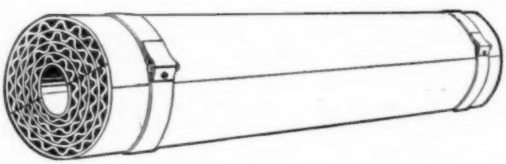
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ASBESTOS PIPE & BOILER COVERING

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That is one reason for the many movements, celebrations and the like, to indelibly impress upon the mind of the people certain facts, duties, or deeds, and impress them so forcefully that it will take time a long while to erase them.

Such a reminder is Defense Day. While the pacifists fought it strongly, Defense Day will be observed just as this issue goes to press, September 12th.

Before the World War the general public paid so little attention to military affairs that they hardly knew we had an army. Certainly they did not realize the extent or calibre of it. And since the war, in the stress of day to day living, many have forgotten.

Defense Day will show the people something of our military strength. It is not intended to act like the proverbial chip on the shoulder, far from it; altho at that it may be a wholesome hint that this particular buzz-saw is not to be fooled with.

Personally we think Defense Day has a wonderful educational value, and will make an impression on our boys and girls and older ones as well, that nothing else could give.

Another movement creating much discussion at present, gaining impetus with every week, and worthy of support, is the Get-out-the-Vote movement.

Our general public is entirely too indifferent to the election of its representatives in Government. An election truly representative of the people might change a great many things for the better.

Every business organization should impress on its employees during the next few weeks, the importance of his voting right.

Every business man should be seen at the polls on election day.

Only a little over a month is left for sending in your suggestions of new uses for Asbestos and Asbestos Products.

The Asbestos Industry Contest closes October 31st.

There's three twenty-five dollar checks waiting for distribution to the winners of the contest, and three five dollar ones for the runners up.

Let's get busy.

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The Better Building Registry

Since our May issue was mailed, which issue contained an article on Fuel Cost Rating of Buildings, the Better Building Registry movement has been progressing quite satisfactorily. Both coal and heating equipment associations have joined with technical engineers of the Heat Transmission Committee, lumber interests and Asbestos paper manufacturers, in active steps to establish a "Better Building Registry" in close co-operation with the Underwriters Laboratories maintained by the National Board of Underwriters.

It is announced that one of the chief executives of the Underwriters Laboratories will be a member of the Organization Committee now being formed. Among other members are Dudley F. Holtman, Chairman Heat Transmission Committee and Construction Engineer of the National Lumber Manufacturers Association, Donald Tulloch, Jr., Secretary-Treasurer of the Asbestos Paper Manufacturers Association, Adolph Pfund, Secretary-Manager, National Retail Lumber Dealers Association, Byron K. Eaton, Chief Engineer for one of the largest members of the National Boiler & Radiator Association.

"We think there is no question that the 'Better Building Registry' will be a fact within a few weeks" said Clyde A. Mann, of the Bureau of Industrial Research. (The Bureau of Industrial Research worked out the plan of rating buildings for "Fuel Cost"). "The National Retail Coal Merchants Association invited us to address the Executive Board because our data shows buildings, rather than coal or boilers, to be the main cause of poor heating in homes and other buildings. We have been assured that the Coal Merchants Association will co-operate in the 'Registry' plan."

"We consider the co-operation of the Underwriters' Laboratories most important, and while it has not been officially acted upon, the willingness of executives to serve on an Organization Committee is significant. The plan contemplates a service organization with a capital of $400,000 and it would start with wonderful prestige and endorsement."

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CONTRACTORS AND DISTRIBUTORS PAGE

The Contractors Association and Its Functions

In some of our larger cities pipe covering contractors have gotten together and formed an organization, known as a trade association, a league, or a club.

Readers in sections where such associations do not exist have been asking what the functions of these trade associations are, what problems they tackle, and whether they have been productive of good, while readers who belong to such leagues or clubs or associations are eager to learn if anything has been tried out successfully in other territories which would be helpful in their own.

In the main, the contractors' associations are formed for the purpose of presenting a united front to labor, not particularly for resistance, but so that in dealing with the local labor union, they can do so collectively rather than individually, and so save a vast amount of time, energy and very often misunderstanding among themselves and between the labor union and the contractors. In general the association or league or club is well regarded and respected by the labor union.

One of these associations of contractors has done away with the practice of employers competing for labor by the payment of premiums, all members now adhering strictly to the wage scale. This, of course, means that the members of the association have gotten together, become acquainted, and are willing to respect each other and the rights of their associates—surely a worthwhile accomplishment.

Another association has succeeded in having apprentices made subject to examination of a Trade Board Committee before becoming mechanics. Slovenly work is sufficient cause to bring mechanics before the Trade Board and if charges are sustained, work is corrected at the mechanic's expense. Thus they have been able to effect improvement in the quality of the work, but they admit having as yet been unable to devise any means for increasing the quantity of work done per man.

Another one tells us, however, that in its territory, each contractor has his men make out a slip each day stating the number of feet of pipe covered. In several cases this method has brought good results. Such a plan might be even more effective if the results were posted in each shop each day, and a sort of rivalry created among the men. Undoubtedly it would act as an incentive to the laggers, and perhaps also to the loafers.

All these suggestions are helpful. If your association has adopted any plan or plans that produce better work or more of it per man, let us know about it and we will be glad to describe it on this page.

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Indifference is the curse of this Industry.

While the Asbestos Brake Lining Association has most of the manufacturers now enrolled, there are several non-members who apparently care nothing at all about the promotion of the industry as a whole and are so blind they do not realize that what helps their competitors should also benefit them.

Intelligent selfishness is the need of the hour!

Those few manufacturers not now in the A. B. L. A. are not intelligently selfish. Some of them contend that because they have built up big businesses without belonging to trade organizations they do not need such affiliations.

Some people do not realize that he who gives also gets, and fail to bear in mind that in order to get anything out of an association they must put something into it.

If **every** division of the asbestos industry were really organized, with a truly representative circle of supporters, the entire industry would be much better off today.

Members of the A. B. L. A. admit that their connections have been worth while. They realize that a trade association is not a means of curbing all evils—and there are still evils existing in this industry as there are in every industry, bar none—but remarkable progress has been made at a comparatively small expense.

Just as every citizen should pay taxes so should every manufacturer support his trade association. And, no manufacturer has a right to c-it-c-ze any such organization until he has done his share toward upbuilding it.

Criticizing members of the A. B. L. A. is the favorite pastime of certain people not in the organization. If these non-members would attend only one monthly meeting of the association, they would find that their competitors are real, honest-to-goodness human beings.—that they are not wolves—and there would be a much broader feeling in the industry.

"Get together" should be the slogan of the hour.

This applies not only to the brake lining manufacturers but to every branch of the industry.

"It can be done" should be the battle cry.

Easy going people are mighty hard to start.

Keep your face always turned towards the sunshine, and the shadows will fall behind you.

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AMERICAN ASBESTOS COMPANY

Manufacturers of
Asbestos Textiles

NORRISTOWN, PA., U. S. A.

Headquarters for Yarns, Cloth, Tapes, Fibres, Brake Linings and Textiles Generally

WRITE FOR PRESENT PRICES

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Asbestos Paper Activities

This page devoted each month to a discussion of paper activities by the Secretary of the Asbestos Paper Manufacturers' Association.

The regular monthly meeting of the Asbestos Paper Manufacturers' Association for August took the form of a highly enjoyable fishing party at the summer home of C. M. Stokes (of the Norristown Magnesia & Asbestos Company) at Avalon, N. J., on August 22nd, 23rd and 24th.

The success of the trip can best be judged by the picture above, showing M. E. White capturing a toadfish at the risk of life and limb.

It was with considerable difficulty, however, that Messrs. Moore and Wilson convinced Mr. Stokes that while there may still be a Santa Claus, Christmas comes but once a year.

The pleasant evening on Friday, the 22nd, was brought to a fitting climax by a swimming party at midnight, the enjoyment of which was further enhanced by a series of aesthetic dances performed by the dignified president of the association, M. E. White, and even if his costumes failed to arrive in time, none would dare intimate that art had suffered thru lack of proper attire.

Members of the party had hardly closed their eyes for a good night's rest, when the alarm clock went off



GRANT V. WILSON WITH "THE CATCH," 100 (?) IN ALL

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and the call to start for the fishing grounds was sounded. For no reason at all, as Mr. Moore expressed it, Messrs. White, Stokes and Stover, old hands at the fishing game, were expected to make the big catch of the day. It was somewhat of a surprise, therefore, when the first fish landed was hauled in by Mr. Wilson, who modestly proclaimed himself a novice at the game. A greater surprise was in store at the end of the day's fishing, when it was found that a tie for high catch existed between Mr. Moore and the secretary—a moral victory was claimed by Mr. Moore, however.



From left to right, C. M. Stokes, Sales Manager, Norristown Magnesia & Asbestos Company; C. J. Stover (guest) President Consolidated Asbestos Limited; A. F. Moore, Manager Asbestos Department, Philip Carey Company; M. E. White, Treasurer, Norristown Magnesia & Asbestos Company; Grant V. Wilson, Vice President, Sall Mountain Company. Evidently the Secretary is exceedingly modest or else the photographer did not allow sufficient space to get him in.

The captain of the boat told a thrilling story of an attack by Coast Guards on a rum runner the night before, in the course of which the cargo of whiskey was dumped into the bay. All the water within a quarter of a mile of the boat was thoroly covered by the castings of the party but not a case could be found. We are led to suspect that interest in this feature of the excursion may have detracted from the fishing ability of some of those present.

Opportunities for learning the very latest French from the "Boule Miche" was offered thru the remarks of Mr. Wilson in talking to the fish. We are not just sure how a fish feels on

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being called "blase" or when told his actions are not "comme il faut" but perhaps some day we'll be enlightened.

While fishing was only fair, the week-end was highly enjoyable and it was with great regret that the members returned to the city on Sunday afternoon.

The August production figure for cars and trucks is 268,477, which exceeds the July Production by 2%, and, as we recall it, July exceeded June by 6½%. During August, 1923, 345,303 cars and trucks were manufactured.

The National Automobile Chamber of Commerce, the authority for the above figures, says "Stocks in dealers hands are well liquidated, and present manufacture is based on orders from the field. Motor manufacturers believe that the gain in the automobile trade is a reflection of generally improved industrial and farming conditions. Dealers report that the fall outlook is excellent, with expectation of sales much better than this summer and with farm trade exceeding last year." All of which sounds encouraging.

Contracts awarded in the 36 Eastern States covered by the F. W. Dodge Corporation's building statistics, showed a total of $347,184,300 in July, against $387,521,100 in June.

The item of most interest was the increase in public buildings, the June figure netting $2,732,400, while July was $8,778,300. Religious and memorial buildings also increased about a million dollars, and educational buildings four million. The most drastic decreases occurred in in-industrial and residential buildings.

A substance called "thoria" is said to be the most infusible substance in the world. It is a chemical compound of the rare element of thorium with oxygen, and is said to be as much more fire resistant than asbestos as asbestos is more resistant than a wooden shingle.

Thoria can be melted altho it took several years of experiment before a fire was devised hot enough to melt it. The United States Bureau of Standards say that the temperature needed is about 6400 degrees F., more than twice as hot as the melting point of gold.

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Asbestos Fibre

for the manufacture of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA

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Early European Development of the Asbestos Industry

The Fortieth Anniversary Number of the India Rubber Journal, published on August 2nd, contained, besides a number of articles of interest to the rubber industry, two excellent articles having to do with asbestos.

One of these treated of "Packings and 'Ite' Jointing," and was written by Geo. H. Cook, J. P., M. I. Mech. E., Managing Director of James Walker & Company, Limited.

The second article "The Development of the Asbestos Industry" was written by the staff of the India Rubber Journal from information supplied them by J. A. Fisher, Chairman and Joint Managing Director of Bell's United Asbestos Company, Limited, and appears to us to be of particular interest since it gives the early history of the development of the Asbestos Industry in Europe.

We have taken the liberty of quoting from the article, believing that many of our readers know little of these early developments.

"It was not until about the year 1800 that the idea was revived in Northern Italy that asbestos might be turned to useful account, and some experiments were then carried out in Lombardy which were to a certain extent successful, and earned for two enterprising citizens concerned, some distinction from Napoleon I. Intense political disquietude, however, prevented further development, and for a number of years asbestos, altho of some interest to mineralogists and geologists, was not regarded as of much practical or commercial value.

In the year 1886 three Italians, namely, Signor Albonico, of Sondrio; Canon del Corona (a Florentine cleric), and the Marquis di Baviera, succeeded in making some small specimens of asbestos cloth and paper, and endeavored to interest the Italian Government in these articles. They failed, and whatever prospects they may have had of better success in other directions were defeated by the outbreak of the Franco-German War in 1870.

Meanwhile they obtained concessional rights from various communal authorities in the Valtellina, Val d'Aosta

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Allbestos Corporation

High Grade Asbestos Textiles

Yarns, Brake Linings
Clutch Facings
Listings
Plain and Metallic Asbestos Cloth
Wick, Rope and Asbestos Specialties

Manufactured directly from the raw materials to the finished product in our own factory.

Belfield Ave. and Fisher's Lane
LOGAN, PHILADELPHIA

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and Val Susa districts of Northern Italy to explore for and to excavate the raw material. They obtained a considerable quantity, most of which consisted of fibre of fine quality and great tensile strength. Furse Brothers, bankers of Rome, and others, became interested in these excavations, and a company was subsequently formed in Glasgow in 1871, thru the enterprise of the late Heselton R. Robson (the designer of the famous Clyde steamer, the first 'Lord of the Isles'), Mr. Walter MacLellan (of the well-known engineering firm) Mr. David S. Cargill (the founder of the Burma Oil Company) and Mr. William Wotherspoon, all of Glasgow. The name of this company was 'The Patent Asbestos Manufacture Company, Limited.'

At an earlier date, viz: in 1857, a Mr. Richard Lloyd, who had evidently heard something about asbestos fibre, took out a patent for an engine packing in which the use of asbestos was claimed, but there is no evidence of its having been put to practical use. A year or two later asbestos fibre of a white, flossy description was used for mixing with fire clay for gas fires, and the mineral first became generally known by the public in this connection.

About the same time asbestos paint was made and sold by Messrs. H. W. Johns, of New York, but to what extent ground asbestos was used as a pigment in this paint is not known, and most likely the quantity was very small. It remained for the Scottish company mentioned above first actually to manufacture a steam gland packing consisting of loose carded Italian asbestos fibre which was enclosed in an outer covering of braided cotton yarn. They also made asbestos millboard fór joints from the shorter fibre, and a non-conducting composition from waste fibre droppings and certain binding ingredients for covering steam boilers and pipes, and these three articles came into rapid demand.

Unfortunately this primitive system of making packing proved unsatisfactory, for small particles of gritty substances were often left in the fibre, and having worked to the surface caused some damage by scoring the piston rods and valve spindles.

About five years later a second company was formed under the name of Italo-English Pure Asbestos Co., Ltd., with a factory at Turin. Its founder was the late Sir

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(then Mr.) James Allport, of Midland Railway fame, who foresaw a large demand for properly manufactured asbestos articles in connection not only with steamships but also with railways. This company succeeded in spinning, principally by hand, a yarn from Italian fibre, which was completely freed from gritty particles or other impurities, and twisted into a rope packing without any covering of cotton such as that originally used by the Glasgow company. This marked a considerable advance, and as the "Italo-English" Company also succeeded in producing an exceptionally fine quality of millboard made at Tivoli near Rome, for cylinder cover and other joints, considerable orders were obtained from leading railways in this country as well as from steamship owners.

Keen competition then set in between the original group of mining concession-hunters in Italy, headed by Furse Brothers, the Glasgow Company and the Italo-English Company, for the control of supplies of the raw material, for it was believed in those days that the Italian variety of asbestos was the only kind which was of real value, and prices were being forced up to abnormal figures. This led to an amalgamation in 1879, when the United Asbestos Company, Ltd., (consisting of the Glasgow and Italo-English Companies, and Messrs. Furse Brothers) was formed under the chairmanship of Mr. Allport, Messrs. MacLellan, Cargill, Furse and Howard Allport were the first directors. The publication of the prospectus of the United Asbestos Company attracted a considerable amount of attention to the many possible applications of asbestos in the industrial world and the capital was oversubscribed.

In the early days of the United Company other deposits of asbestos were discovered in the province of Quebec. While the chemical properties of this material were similar to those of the Italian fibre, there was a marked difference in their physical characteristics. The Canadian variety proved to be much easier to manipulate by machinery, differing only slightly in the more important details from that which was then in ordinary use in textile factories in Lancashire.

The late Dr. Irvine, one of the owners of the first deposits discovered in Quebec (which turned out to be the

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richest and probably the most famous asbestos mining property in Canada, if not in the world, and known as Johnson's) came to Europe shortly after the formation of the United Asbestos Company and endeavored to interest the chairman of that company in the Canadian material. It is believed that at that time the United Company might have acquired a third or fourth share in the Thetford deposits for a comparatively small cash payment, but besides having a profound belief in the superiority of the Italian fibre, Mr. Allport's company, having acquired control of all the known deposits in Italy, was too deeply committed, and Dr. Irvine's proposals, unfortunately as subsequent events proved, were not entertained.

Dr. Irvine succeeded, however, in other directions and one of the first—if not the first—gentleman to recognize the great possibilities of Canadian asbestos was the late Mr. John Bell, the founder of Bell's Asbestos Company, Ltd. To Mr. Bell belonged the distinction of being the first to succeed in spinning Canadian asbestos, a process which thru collaboration with an expert firm of Lancashire cotton spinners—Messrs. Turner Brothers—was ultimately developed to a state of perfection. Mr. Bell's asbestos factory in Southwark Street being in those early days unequal to the demands made upon it—the British Admiralty having thru Mr. Bell's efforts adopted asbestos packing for use in the Navy—he concluded arrangements with Messrs. Turner Brothers under which they undertook to manufacture asbestos goods to his requirements for a period of years. In course of time this arrangement came to an end, Messrs. Turner Brothers being then free to enter the open market in competition with Bell's and the United Companies. The demand for Bell's products continued to increase, necessitating the erection of a new factory, warehouse and offices in Southwark Street, and the acquisition of further factory and wharfage accomodation at East Greenwich. Bell's Company also acquired important asbestos deposits at Thetford—known as the Bell Asbestos Mines—adjoining and second only in value to Johnson's Mines above referred to. These Bell deposits were afterwards acquired by an American company, the future requirements of Bell's Company having been otherwise provided for."

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BASIC MANUFACTURERS OF

PACKINGS

FOR

PACKING COMPANIES

Compressed Sheet Packing
High Pressure Packings
Gaskets & Gasketing Material
Metallic Sheet Packing
Valve Stem Packing
Braided Asbestos Packings

ASBESTOS TEXTILE CO.

MILLS
North Brookfield
Mass.

OFFICES
18 E. 41st Street
New York, N. Y.

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Imports into U. S. A.

Unmanufactured Asbestos:

	June 1923 Tons	1923 Value	June 1924 Tons	1924 Value
Canada	13,350	$663,609	9,694	$315,898
England	289	65,675	26	2,451
Br. So. Africa	16	2,655	262	22,703
Portuguese E. Africa	12	2,800	89	14,000
Other Port. Africa	33	7,600	...	.....
Italy	..	4	...	.....
British India	1	392	...	.....
Greece	..	...	80	8,720
	13,701	$742,735	10,151	$363,772

Of the Asbestos coming from Canada, 792 tons were Crudes, 3,330 tons Mill Fibre, and 5,572 tons refuse, sand, etc., according to the classification of the United States Customs.

The 80 tons from Greece is classified as refuse, sand, etc.

Manufactured Asbestos:

	June 1924 Pounds	1924 Value
Yarn		
Germany	112	$ 109.00
England	424	139.00
Fabrics, Woven		
England	12,981	4,507.00
Scotland	1,013	259.00
Packing, not Fabric		
England	987	220.00
Canada	4	2.00
Shingles, Slate, Wood and Lumber		
Belgium	128,000	2,062.00
Other Manufactures		
Belgium	426,515	6,240.00
England	7,221	2,025.00
Canada	10	2.00
	577,267	$15,565.00

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During June 1923, 1,523,584 pounds were imported, valued at $49,606.

Exports from U. S. A.

Exports of unmanufactured asbestos for the month of June 1924 amounted to 151 tons, valued at $8,879; while in June 1923, 33 tons were exported, valued at $3,157.

Exports of manufactured asbestos goods:

	June 1923		June 1924	
	Pounds	Value	Pounds	Value
Paper, mlbd. & rlbd.	339,032	$17,069	144,110	$ 6,709
Pipe Covg. & Cement	536,955	34,409	255,426	19,542
Textiles, Yarn & Pkg.	116,075	73,379	128,719	79,073
Magnesia and Mfrs. of	437,110	25,990	225,028	16,130
Asbestos Roofing	11,920 sqs.	83,846	828 sqs.	6,638
Other Manufactures	189,013	61,907	155,630	72,952

Exports from Canada (Raw Asbestos).

	May 1923		May 1924	
	Tons	Value	Tons	Value
United Kingdom	215	$ 11,475	452	$ 28,460
United States	9,836	600,534	6,850	336,241
Australia	...	.....	20	975
Austria	...	.....	...	...
Belgium	750	43,663	749	33,350
France	300	18,050	225	17,600
Germany	912	77,839	959	83,610
Italy	...	.....	126	8,160
Japan	175	7,386	880	44,658
Netherlands	20	1,200	...	.....
Spain	...	....	...	.....
Switzerland	...	....	...	.....
Other Countries	...	....	...	.....
Total	12,208	$760,147	10,261	$553,054
Sand and Waste—				
United Kingdom	...	.....	149	2,295
United States	6,727	77,874	7,808	90,613
Belgium	...	.....	60	1,200
France	...	.....	...	....
Germany	60	900	200	3,700
Other Countries	...	.....	65	1,250
Sub-Total	6,787	$78,774	8,282	$99,058
Grand Total	18,995	$838,921	18,543	$652,112

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Imports by England.

Imports of raw material for June 1924, compared with those for June 1923:

	June 1923		June 1924	
	Tons	Value	Tons	Value
From Rhodesia	654	£19,365	776	£22,042
From Canada	260	3,958	777	10,774
From Other Countries ..	567	17,014	226	5,983
Total	1,481	£40,337	1,779	£38,799
Re-exports	1,203	£42,986	792	£22,587

The following tabulation covers the *imports of raw material* by England, for the first six months of 1924, and comparing with the first six months of 1923:

	First Six Mos. 1923		First Six Mos. 1924	
	Tons	Value	Tons	Value
From Rhodesia	5,020	£157,770	4,604	£155,031
From Canada	1,557	25,583	2,574	39,130
From Other Countries ..	3,753	123,384	1,901	42,574
Total	10,330	£306,637	9,079	£236,735
Re-exports	5,861	£225,022	3,356	£107,747

Exports by England.

Exports of manufactured asbestos materials during June 1924, comparing with those for June 1923:

	June 1923		June 1924	
	Tons	Value	Tons	Value
To Netherlands	47	£ 3,371	50	£ 4,555
To France	18	9,134	57	14,381
To U. S. A.	7	2,018	18	1,698
To British India	145	7,485	164	9,564
To Other Countries	812	49,178	873	53,277
Total	1,029	£71,186	1,162	£83,475

The following tabulation gives the *exports of manufactured materials* for the first six months of 1924, compared with those for the same period during 1923.

	First Six Mos. 1923		First Six Mos. 1924	
	Tons	Value	Tons	Value
To Netherlands	166	£ 17,222	227	£ 23,479
To France	188	52,531	256	69,259
To U. S. A.	43	9,946	65	14,927
To British India	881	49,996	635	42,973
To Other Countries	3,840	249,721	5,291	315,624
Total	5,118	£379,416	6,474	£466,262

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Asbestos Corporation
of Canada, Limited

The Largest Producers of Raw Asbestos in the World

CRUDES
SPINNING FIBRES
SHINGLE STOCKS
PAPER STOCKS

Mines

Kings Mines, Thetford Mines, Quebec
Beaver Mines, " " "
B. C. Mines, Black Lake, "
Fraser Mines, E. Broughton, "

Head Office

Canada Cement Building
Phillips Square - Montreal

General Office

THETFORD MINES
Quebec, Canada

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Rhodesia.

Bulawayo District—

	May Tons	1924 Value
Nil Desperandum (Afr. Asb. Min. Co., Ltd.)..	618	£ 8,882
Pangani (J. S. Hancock)	30	
Shabanie (Rho. & Gen. Asb. Corp., Ltd.)	792	19,811
Victoria District—		
Gath's (R. & Gen. Asb. Corp., Ltd.)	377	9,052
King (R. King Asb. Co., Ltd.)	445	8,900
Total	2,262	£47,005

Production for Rhodesia during May 1923 amounted to 1642 tons, valued at £37,233.

Union of South Africa.

	May Tons	1924 Value
Transvaal	490	£.8,278
Cape	439	5,033
Total	929	£13,311

Shipment and Sales from Union of South Africa during May 1923 amounted to 707 tons, valued at £9,648.

The New York National Automobile Show will be held in the Bronx Armory during the week of January 3rd to 10th inclusive.

ASBESTOS MANUFACTURERS can limit selling expense by allowing me to represent them in New England territory. I have an organization capable of marketing any Asbestos materials. Correspondence solicited from manufacturers and salesmen. HOMER L. HARPIN, Little Building, Boston, Mass.

Paul Hammerich

Inspector of Asbestos, Crude and Fibre. Reports on Asbestos Mines and Mills.

THETFORD MINES - QUEBEC, CANADA

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THE ASBESTOS & ELECTRICAL FITTINGS CO. LTD.

HOPETOUN HOUSE, 5 LLOYDS AVENUE

LONDON E. C. 3. ENGLAND

ARE ABLE TO OFFER ALL GRADES OF FIBRE PRODUCED AT THE FOLLOWING MINES REGULARLY GRADED AND FREE FROM STONE AND GRIT

BIRTHDAY MINE
NIL DESPERANDUM MINE } SHABANI

RHODESIAN WHITE ASBESTOS

TELEGRAPHIC ADDRESS: "VULBESTON"

CODES USED: BENTLEY'S, LIEBER'S, A. B. C. 5TH EDITION, WESTERN UNION, UNIVERSAL EDITION

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Idaho Asbestos Deposits

By Mrs. Isabel Diehl, *Spokane, Wash.*

Deposits of Asbestos were found in Idaho years ago, but as the material was of the amphibole variety no attempt to develop them has been successful up to the present time.

Recently, however, the Panhandle Asbestos Company has taken hold of this work in earnest, and controls all of the asbestos land known to be existent in Idaho, the deposits being located about 15 miles east of Kamiah. There is already a mill at Kamiah for the treating of the material, and this is being enlarged to accomodate new machinery coming from the east.

The deposit is somewhat peculiar since it lies in mass formation entirely above ground and in some places stands as high as a three story building. The mining will be done by blasting the rock as in a stone quarry and naturally the cost of mining will be low, particularly as the rock contains 90 to 95% Asbestos. The largest outcropping rock on the holdings, measures 110 feet around the base, is 47 feet high and contains about 58,000 tons of asbestos, according to the estimate of government engineers.

It is planned to use the material, after preparation, principally for the manufacture of a paving material, known as Asbestophalt, and made by Warren Brothers Company, of Boston, Mass., and Portland, Ore. Asbestophalt consists of a mixture of asphalt cement, coarse, clean sand, and the asbestos itself, the ingredients being mixed at a temperature of about 350 deg. F. (A detailed description of this material will be given in a later issue).

The Asbestos will also be sold for building material uses, such as in asbestos lumber and shingles, plaster, pipe covering, etc.

Advertising is to business what the brass band is to the parade. It's the only quick and sure way of letting the public know who you are, what you are and what you have to offer them. It is quite true that you can have a business without advertising. It is also true that a parade can go thru the streets without a brass band, but who would see it?—Jabs.

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An Artist Uses Asbestos

A new use for asbestos has been developed by Marie Stephens, an artist of Buffalo, N. Y., who is constructing a marionette theatre along old-fashioned lines. She was anxious to have her theatre approximate the marionette shows of the sixteenth century in every detail, even down to the candles used as footlights, and for lighting purposes on the stage.

The danger from fire on a marionette stage was, of course, very much greater than in an ordinary theatre. To avoid this, Miss Stephens is costuming all her puppets in asbestos cloth thruout, painting the cloth with paints of varying consistencies to give the requisite appearance of different cloths.

The use of asbestos cloth for the costumes is a development of her original plan, which contemplated using asbestos only in the puppets themselves. Marionettes of this type are usually constructed of a paste of papier-mache and flour which is moulded to shape and baked to hardness. Miss Stephens experienced some difficulty in handling this material, and tried asbestos wool as a base for the heads and bodies of her dolls.

To her surprise it proved a most satisfactory material, being more easily modelled and more durable than the original papier-mache paste. The composition she uses for her work consists of a mixture of asbestos wool and a flour and water paste, which is soft enough to mould into shape and will hold the shape after moulding. After the desired shape has been reached, the composition is baked to hardness. The separate parts of the puppets are made as distinct sections, and articulated with wires.

The Thirtieth Annual Convention of the National Hardware Association will be held at Hotel Marlborough-Blenheim, Atlantic City, N. J., from October 14 to 17th, 1924. T. James Fernley, 505 Arch Street, Philadelphia, is Secretary.

If you can't dodge trouble, step on the gas and hit it head-on.

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NEWS OF THE INDUSTRY

Birthdays. Our birthday list this month includes the names of J. Russell Kelso, President Kelso Manufacturing Company, whose birthday occurs on September 15th; R. V. Mattison, Jr., Vice President and General Manager, Keasbey & Mattison Company, September 16th; W. H. Wampole, Vice President Staybestos Manufacturing Company, September 25th; A. W. Koehler, President, Asbestos Textile Company, September 29th; E. B. Knowles, Sales Manager Automotive Equipment Department, United States Asbestos Company, October 3rd; and Carlton E. Miller, President, National Magnesia Mfg. Company, October 7th. To all these gentlemen we extend our hearty good wishes.

Eastern Townships Championship. Our August issue mentioned the Eastern Townships amateur golf championship tournament. We are glad to report in this issue that the Asbestos Industry came off victorious. For those of our readers interested in golf, we will give details of the winnings.

The qualifying rounds were played on Friday, August 15th, results for 36 holes being C. J. Stover, 155; Gordon Miller (Sherbrooke Club), 157; W. G. Ross, 161; and A. H. Smith (North Hatley), 162.

The draw for match play brought Gordon Miller and A. H. Smith together, while W. G. Ross played C. J. Stover. Miller defeated Smith 6 and 4; Stover defeated Ross 3 and 2. The finals were played on Saturday afternoon between Miller and Stover, the latter winning 4 and 3.

Since the Canadian rules forbid the taking of more than one prize by one man, the qualifying medal prize was presented to W. G. Ross, C. J. Stover taking the Championship prize and Miller the runner up prize.

This was the first Eastern Townships Championship to be held and all the participants were delighted with the hospitality extended to them by the officials and members of the Sherbrooke Club.

American Insulation Company. We notice from list of inspected mechanical appliances issued recently by the Underwriters' Laboratories, that the Asbestos Shingles sold by the American Insulation Company have been given the ratings similar to those given Asbestos Shingles made by the Asbestos Shingle, Slate & Sheathing Company and Johns-Manville, Inc.

Jones-Davis, Inc. Harry S. Davis, connected with Johns-Manville, Inc., for the past twelve years, during nine of which he was their Buffalo district manager, recently resigned from that company, and with Lou S. Jones organized Jones-Davis, Inc., with headquarters at 2665 Main Street, Buffalo, N. Y. The new

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"Proctor" Asbestos Dryers



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

Seventh St. & Tabor Rd., Philadelphia, Pa.

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company will act as direct factory representatives for machinery of various kinds, such as lathes, millers, shapers, presses, radial drills, electric drills, grinders, polishers, reamers, hoists, etc.

Mr. Davis is President-Treasurer of the new Company, Mr. Jones, Vice President.

I. Scheerders Van Kerchove, St. Niklas-Waas Belgium, have recently, July 1, 1924, issued their Brochure No. 5, describing and illustrating their Asbestos-Cement Slates, Corrugated and Flat Sheets.

Garlock Packing Company. The August issue of Railway and Locomotive Engineering, describes a new all metal packing manufactured by the Garlock Packing Company, Palmyra, N. Y., for use on locomotive air pumps. This packing is said to have several advantages over the old type.

Asbestos Exhibit. The exhibit of Asbestos specimens owned by B. Marcuse, is now assembled in its new home in the show rooms of Johns-Manville, Inc., where all interested in asbestos are welcome to examine it.

Bell Asbestos Mines. The Bell Asbestos Mines of the Keasbey & Mattison Company have just opened up the largest mass of Crude in unbroken seams ever found on their property. The veins are said to run 3 to 4 inches in width and cob very easily.

Russian Brochure. The Scientific-Technical Department of the Supreme Council of National Economy, Moscow, has recently issued a pamphlet, printed in Russian, entitled "The Ways of the Development of the Asbestos Industry." This consists of a collection of technical and semi-technical articles taken from various sources. Of the hundred articles contained in the pamphlet, twenty-eight have been taken from "ASBESTOS".

C. J. Stover, President of Consolidated Asbestos Limited, and Mrs. Stover, sailed on the Adriatic on August 30th, for a two months trip to England and the Continent.

Wm. W. Lewis, formerly New York Manager for the General Asbestos & Rubber Company, has severed his connection with that company, effective August 31st, and has accepted the position of General Sales Manager of the Sall Mountain Company, Chicago, Ill.

Asbestos Mills, Inc. New York financial papers announce the incorporation of Asbestos Mills, Inc., with a capital stock of 200,000 shares of no par value. It is said that the stock will probably be offered in Canada and the United States at $25.00 a share, the new company to be the first step in a further enlargement of the operations of the combined Asbestos Mines, Limited, and Black Lake Asbestos & Chrome Company.

The new company will use the selective treatment process of handling asbestos rock and two new mills will be built, the first, which is at present being designed, to have a capacity of 700 tons a day.

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The Utilization of Dolomite for Refractories, is the title of a report recently issued by the Bureau of Mines, the report having been prepared by G. A. Bole, Superintendent, Ceramic Experiment Station, Bureau of Mines. Copies of this report may be obtained by writing the Bureau of Mines, Department of the Interior, asking for Serial No. 2627, or we will be glad to lend our copy to any of our subscribers.

The Silver Edge, Vol. 4, No. 10, which has just reached our desk, is rather more profusely illustrated than usual. The articles "Brake Service in New England," and "More about Automobile Brakes" the latter by Frederick C. Stanley, Ph. D., Chief Engineer, are of interest to everyone, while "A Jobber that Grew with Raybestos", "2000 Feet by the Sea", "Where a Past is Beneficial," and "Removing Brakes from Chevrolet," must be of especial interest and help to the brake service man.

Sir Samuel Turner. It is with much regret that we learn of the death of Sir Samuel Turner, founder of the well-known firm of Turner Brothers Asbestos Company. Sir Samuel was in his eighty-fifth year.

Patent has recently been granted in England to Samuel Turner, of Spotland, Rochdale, covering a mixture of asbestos fibre and a suitable gritty material, to be used for tennis courts and like surfaces. The material is said to dry quickly, will not kick up or erode and retards if not entirely prevents, vegetable growth.

PATENTS

Heat Insulating Coverings for Pipes, Process of making. No. 1,499,774. Granted on July 1st to Frank A. Headson of Milwaukee, Wis., assignor to Johns-Manville, Inc. Filed August 26, 1922 Serial No. 584,534. Described as a process of making heat insulating coverings having separable inner and outer sections which comprise winding heat insulating sheet material around a rotary support, thereby forming an inner section having a plurality of connected layers of sheet material, then wrapping around the said inner section an intermediate separating layer of sheet material having a dry surface, to separate said inner section from an outer section to be wound thereon, and then winding heat insulating sheet material upon and around said intermediate layer and around said inner section by rotating said inner section, thereby forming an outer section having a plurality of connected layers of sheet material surrounding said intermediate separating layer and said inner section and separated from said inner section by said intermediate separating layer.

Pipe Covering and Method of making same. No. 1,499,781. Granted on July 1, to Frederic L. Pilliod, Plainfield, N. J., assignor to Johns-Manville, Inc. Filed November 6, 1922, Serial No. 599,180. Described as an article of manufacture, a sectional pipe covering comprising two nested, longitudinally slitted tubes, each composed of a superposed layer of non-heat conducting material, cemented together and a layer of smooth faced material

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located between the adjacent surfaces of the two tubes, so formed and cemented to one of these only, whereby the two tubes when applied to a pipe as a covering therefor, can be slid one upon the other both circumferentially and longitudinally for the purpose of breaking the joints.

Transmission Relining Band. No. 1,500,341. Granted on July 8th, to Douglas B. Smith, San Francisco, Calif., filed September 24, 1923, Serial No. 664,363. Described as a liner for a planetary transmission band said liner being capable of being inserted into place without dis-assembling said transmission, said lining comprising a lined flexible band having slotted ends to coincide with the slotted ends of the transmission band, aligning lugs formed at one of said slotted ends of the flexible band, said lugs being adapted to engage the opening in one of the lugs of said transmission band, and a plurality of guide members fixed to the band at a plurality of points around the circumference thereof for engagement with the sides of the transmission band, to guide the liner when it is being positioned, and to maintain the liner correctly positioned on said transmission band, the said guide members comprising flat members extending transversely of the flexible band, the ends of said flat members being bent outwardly so as to extend radially from opposite sides of the flexible band.

Building Material. No. 1,501,512. Granted on July 15th, to Oscar A. Bigler, Wyoming, O., assignor to the Philip Carey Mfg. Company. Filed March 29th, 1922. Serial No. 547,700. Described as a building strip having a plurality of laterial lines of bituminous material arranged below the surface extending inward from one edge thereof, a straight continuous line arranged below the surface connecting all of said laterial lines, so as to provide areas enclosed on three sides only, all so arranged that the said continuous line will form one side of an enclosed area on the next adjacent strip.

Cement Tiles, Sheets, etc. No. 1,503,409. Granted on July 29th, to Samuel Scott Wilson, Meyerton, Transvaal, South Africa, assignor to John Wilson & Sons, Ltd., Johannesburg. Filed September 10, 1920, Serial No. 409,432. Described as a process of manufacturing sheets from a plastic mixture of Asbestos, cement and water, which consists in spreading the mixture upon a surface provided by a slab made of plaster of Paris, as set forth.

BUYERS CLASSIFIED INDEX

Being a listing of those firms whose products are of particular interest to those in the Asbestos Industry.
Rate for listing supplied on application.
We hope to gradually make this listing of great value to our readers.

ASBESTOS TEXTILE MACHINES

WHITIN MACHINE WORKS, Whitinsville, Mass.

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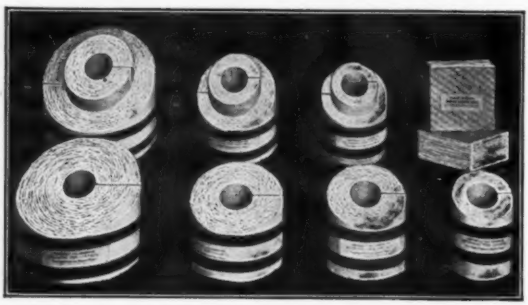
IMPERIAL ALL ASBESTOS COVERING

Wire Stitched with Water Proof Jacket for outside work



IMPERIAL ALL ASBESTOS COVERING

Wire Stitched—Canvass Jacket—Metal Banded
For High Pressure and Superheated Steam Lines



A combination of the two most effective insulating elements, i. e., felted Asbestos and "dead" Air Space.

Will not loosen nor crumble from vibration.

Can be removed and replaced without injury.

Will not Sag on Pipes. Strong and Flexible.

— Manufacturers —

H. F. WATSON COMPANY

CHICAGO BRANCH
5331-39 S. Western Ave.

Erie, Pa.

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The Lightest Weight Steam Pipe and Boiler Insulation Made

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Cement Stocks

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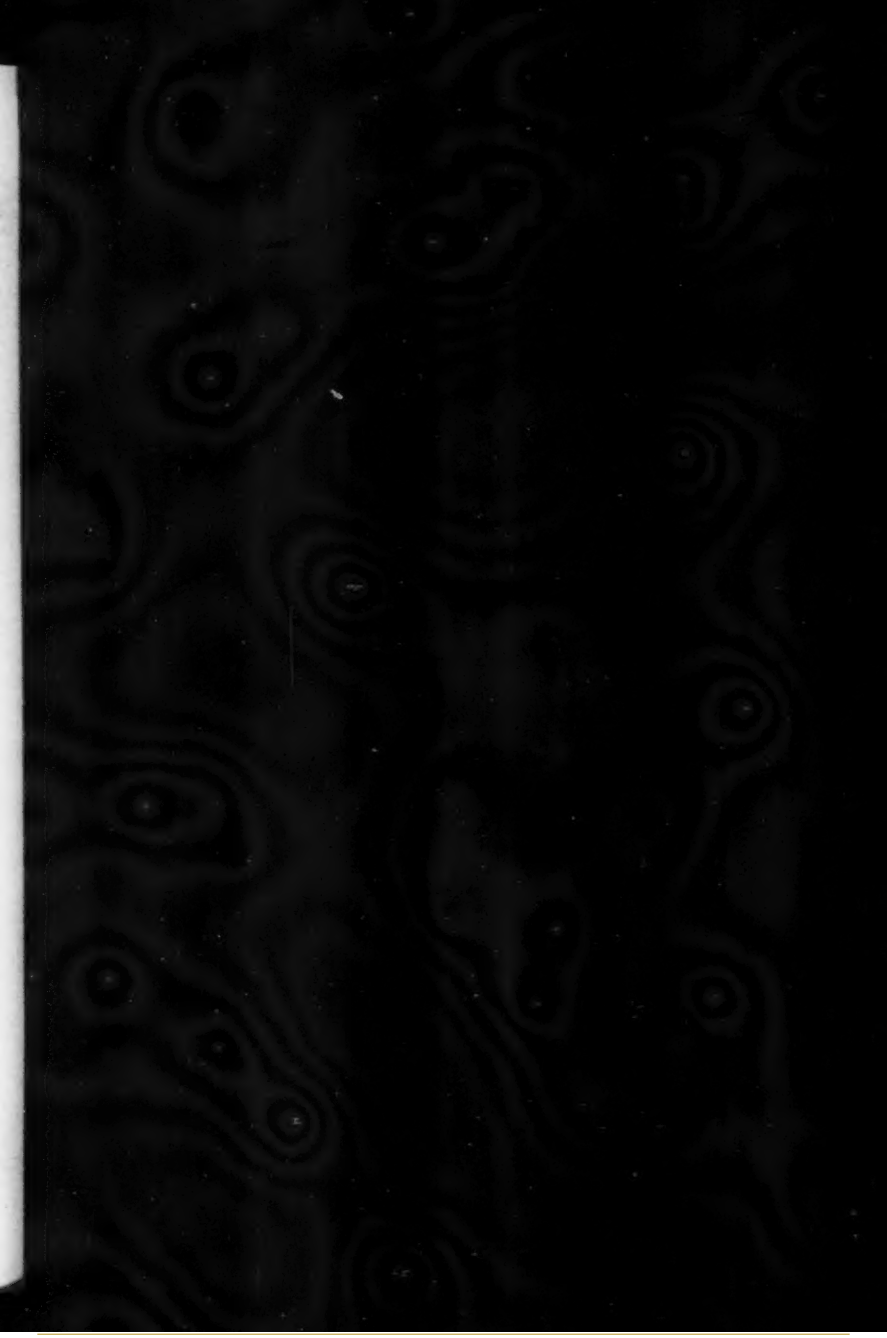
White color. Covering capacity 24. feet per 100 lbs., when applied 1'' thick. Weight 24 to 26 lbs. per cubic foot.

Consolidated Asbestos Limited

Canada Cement Building

Montreal, - Canada

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