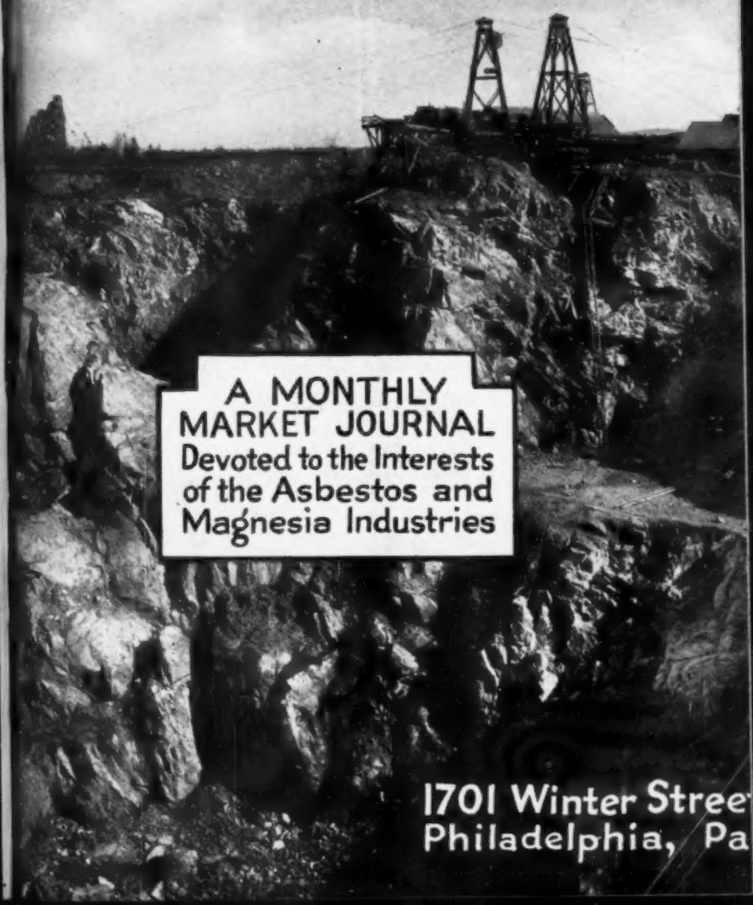
ASBESTOS

SEPTEMBER 1932



A MONTHLY
MARKET JOURNAL
Devoted to the Interests
of the Asbestos and
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... ASBESTOS ...

A MONTHLY MARKET JOURNAL
DEVOTED TO THE INTERESTS OF THE
ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER - - EDITOR

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Asbestos In The Oil Industry

By Dudley W. Moore, Tulsa, Okla.[1]

The oil industry by the very nature of its operating makeup is one of the largest markets for asbestos. From the drilling well to the loaded tank car it offers perhaps the most extensive field for asbestos protection and service.

In drilling for oil and gas, in the transportation and utilization of highly volatile gases and liquids, in the application of heat and cold to the manufacture of petroleum products, and in the storage of oil and its byproducts, asbestos materials are the most effective of insulation materials. In no other line of industry is asbestos used so widely and so generally.

It is the purpose of this article to show the various uses of asbestos in the oil fields and how it has made more efficient the particular installation or equipment where it was utilized. In the early days of the oil industry it was regarded solely as safety material in preventing fire. We will show that in its widespread use by the oil companies it is just as important from the standpoint of efficiency as it is from that of safety.

Stills and Refinery Equipment.

All branches of the petroleum industry, producing, refining, transportation, including pipe line and tank cars, employ asbestos materials in their construction and operation. In the refinery, with its stills, towers, heat exchangers, condensors and high pressure equipment where efficient heat combustion and proper cooling are of primary importance asbestos finds its biggest individual field.

In refinery stills the oil is heated to certain temperatures and the gasoline, kerosene, fuel oil, etc., skimmed off in succession at the required temperature. Refineries which go no further than this are known as skimming plants. In others the installation of high pressure or cracking stills makes it possible to again heat fuel oil at higher temperatures and again run off gasoline, kerosene, etc. This continuous heating requires insulation of a high type in order to conserve the heat, maintain the proper tempera-

[1] The writer is indebted to Johns-Manville field engineers for much of the information given in this article.

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tures, and otherwise protect the equipment. Eighty-five per cent Magnesia Blocks are generally used for still insulation at oil refineries. A combination of silica and asbestos fibre with 85% magnesia is also employed.

To show the insulation efficiency of asbestos materials on refinery stills, the following table compiled by engineers of Johns-Manville, might be quoted: (These figures apply to the use of a combination of diatomaceous silica and asbestos fibre bonded together and used in conjunction with asbestos sponge felt).

Max. Operating Temp. (Deg. F.)	Av. Operating Temp. (Deg. F.)	Temperature Dif. (Deg. F.).	B. T. U. loss per sq. ft. per hr surface	B. T. U. per Sq. Ft. per hr. thru Insulation	Insulation Efficiency
	150	100	215	17.2	92.01
300	300	250	737	46.4	93.71
	250	200	533	20.9	96.08
750	500	450	2007	51.3	97.45
	750	700	4760	87.4	98.17
	600	550	2959	55.1	98.14
	800	750	5456	79.0	98.54
	1050	1000	9650	114.0	98.82
	1200	1150	12,736	137.2	98.92

Note: The higher the temperature quoted, the higher the insulation efficiency.

Auxiliary equipment of refineries such as towers, heat exchangers and condensors are asbestos insulated to prevent radiation and loss of heat thru the shell. Heat exchangers and some condensing equipment are asbestos covered according to range of temperature expected, otherwise if not insulated the heat might be wasted in radiation. Eighty-five per cent Magnesia Blocks laced over wire mesh is the usual method. In some cases rock wool is used in connection with the magnesia. The pressure control valves on vapor lines are similarly insulated.

The insulation on towers concerns a general method of stopwelding angle clips straight up and down around the bottom head and bolting on to a curved band iron, the latter serving as anchor for the lacing wires which support the asbestos blocks. Insulation on the shell is accomplished by circumferential lacing wires. The asbestos is also fastened on by means of signode straps or stranded wire cables.

In furnace settings for firing the stills, a combination of silica and asbestos fibre is placed over the exterior brick-

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work thus tending to seal the cracks in the walls. While other materials are used in some instances in conjunction with asbestos, the above insulation blocks are held in place on the side walls by wires and sometimes an outside casing of cement is used. In construction of this equipment the exterior casing is usually erected first, then asbestos blocks are applied on the inside and the inner casing is bolted thru the insulation to the outer casing. The brickwork is



High pressure cracking stills at a refinery. Stills, furnaces, towers, tanks and piping are usually asbestos insulated.

then erected. Furnace expansion joints are packed with asbestos rope or jelly rolls, the latter being used for larger spaces.

Low Temperature Equipment.

The low temperature, or what might be called the refrigerating equipment for cooling the oil and gases, finds a wide use here for asbestos waterproofing felt. Pipe chilling machinery is usually insulated with 15 lb. asbestos waterproofing felt (saturated with asphalt) laid vertically and lapped 3 inches. In addition to covering the sides and top of the chilling equipment, asbestos insulated floors are provided for the chilling room.

Pumps, vapor lines, pressure lines and other miscellan-

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eous operating equipment around the refineries are provided with asbestos insulation, packing and gaskets. Hot oil pumps are sometimes insulated thruout. Vapor lines are always insulated 100 per cent and in some cases various compounds are used with the asbestos.

Natural gasoline plants where gasoline is extracted from natural gas coming direct from the wells use much equipment similar to that of the refineries, including towers, heat exchangers, condensors, etc. Asbestos insulation in this field is practically the same as in refineries. Gasoline plant insulation, because of the problem of dealing directly with vapors, offers a big market for asbestos in the safety sense. Asbestos is widely employed here in the steam end of compressors and steam piping. The modernizing of gasoline plants in the last few years has seen the use of asbestos insulated walls and flooring in some plants.

Power Plants.

Asbestos has long been associated with construction and operation of power plants. Refinery, gasoline plant and pipeline power plants are seldom noted without its use on a large scale. Asbestos rope is tamped into cracks in the walls, asbestos felt or jelly rolls are used for the expansion joints and asbestos ebony for switchboards, controller plates, etc. Asbestos waterproofing and dampproofing are also widely used. Where brick settings are installed for power plant boilers asbestos rope is used as side wall insulation. This is similar to insulation of still settings.

Pipe Lines.

In the pipeline field the use of asbestos is confined largely to pipe protection. Asbestos felt is applied when and after coating with asphalt, bitumen or coal tar before the pipe is placed in the ground. Hand labor formerly used in applying this felt is now supplanted by wrapping machines which are in general use, especially on long lines. Asbestos is either wrapped adhering to or separate from the coating, some soil conditions requiring the use of both methods. The marshy soil in the Gulf Coast region finds a wide use of asbestos waterproofing felt. This is said by oil and gas engineers to be highly resistant to chemicals, water and soil bacteria. Another reason asbestos is preferred is

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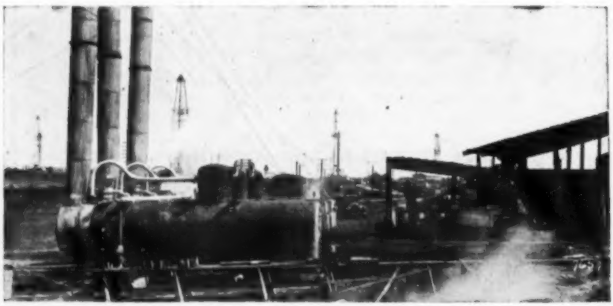
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that the fibres are non-tubular and do not permit capillary action. Electrical resistance, as is well known, is also greater.

Tanks and Storage.

Large storage tanks on tank farms or smaller stock tanks at the refineries are good prospects for asbestos covering and roofing. The latter has made the most headway in the last few years. Insulation of stock tanks is increasing since these tanks usually hold gasoline or other volatile liquids which have a high evaporation loss. In tests made by some oil companies, asbestos has been found to be the ideal insulating material on this equipment since it not only reduces evaporation but maintains the gravity of the oil



Oil field steam drilling boilers showing asbestos insulation.

and resists electrical action from storms, etc. There are many instances of completely insulated storage tanks, both side walls and roof, and the number is increasing.

In California where considerable underground storage is maintained asbestos roofs are general. In most cases these were installed at the time the reservoirs were built.

A table showing the general thickness of insulation needed for tanks where different temperatures are main-

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NEW merchandising plans, new packages, improved products, yet the same basic materials that have kept Keasbey & Mattison Company in the limelight for over half a century!

Many changes have been seen at K. & M. in recent months — improvements in merchandising, new products to meet new conditions arising in the industry.

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tained, is shown as follows:

Temperature Deg. F.	Shell Insulation Thickness (Inches)
100 to 300	2
300 to 400	2½
400 to 500	3
500 to 600	3½

In the protection of storage tanks from fire, what is known as an asbestos tube and bowl was invented by a California oil company as a permanent or portable installation. Sections of pipe and tubing are clamped together in the form of an elbow having a funnel shaped end which fits inside the tank at the oil line and when in use discharges a foam preparation on top of the oil., smothering the fire. The apparatus is connected with a tank containing the preparation. Asbestos cloth is wrapped tightly around the funnel end and in case of fire this is protected from the direct force of the flames. Many installations of a similar type may be seen around the large tank farms.

Drilling Wells.

Asbestos insulation of oil field drilling boilers is a comparatively new, but important development to those who are watching operation costs. Some of the major oil companies who are using asbestos protection have found that it will enable securing of steam more rapidly, maintain the proper heat combustion for drilling and eliminate the frequent replacement of tubes. The engineers of one of these companies discovered that from one inch to an inch and a half of asbestos covering would have saved over 90 per cent of the heat lost from uninsulated boilers.

Asbestos clothing and screens for fighting oil and gas well fires are well known thru the exploits of the Kinley brothers of Tulsa, Okla., Tex Thorton of Borger Texas, and others. Without asbestos their accomplishments would not have been possible.

Tank Cars.

Transportation of petroleum products from the refineries to the marketing centers, is now accomplished with minimum loss and maximum safety, due to asbestos insulation of tank car domes and, in many cases, of the cars themselves. Insulation of these cars is primarily to keep the

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volatile contents from heating up above a certain temperature limit or cooling down below a certain temperature limit at which they can safely be unloaded. The shell insulated cars are in most cases those in which natural or raw gasoline is transported. The high volatible content of natural gasoline often calls for an extra margin of safety.

It has been figured that an average shipment of natural gasoline will show a loss of 250 gallons thru evaporation when shipped in an uninsulated tank car. Asbestos waterproofing felt is preferred for this type of insulation. In being fastened to the tank it is covered with a riveted steel jacket. For tank cars handling higher pressures, asbestos felt blocks have been recommended. They are applied next the tank usually with hair felt applied over them and the entire insulation waterproofed.

In reviewing the use of asbestos in the industry it is found that practically every operation of the production of crude oil and the manufacture of petroleum products therefrom centers around equipment requiring the utilization of asbestos and asbestos materials. The constant development of new equipment and new methods in the industry will enlarge the field for asbestos and make even greater the need for its protection and efficiency.

A new electric water heater is said to retain its contents at high temperature for several days after the current is shut off. Asbestos and rock wool are responsible for such pleasing results.

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William N. Ennis

The Asbestos Industry, and particularly that part of it located in New York and its environs, very greatly regrets the passing from its midst, on Thursday, August 11th, of William N. Ennis.



Mr. Ennis at the time of his death, was Vice President of the Matthew Balich Corporation of Brooklyn, New York, but having occupied positions of trust in connection with co-operative work carried on by the Asbestos Insulation Contractors of New York, he was widely known and most highly respected and liked.

Some idea of the high regard in which he was held by the Industry is given in the expression of one of the manufacturers when advising us of Mr. Ennis' death: "We believe the Industry has lost a very capable man; one who has always attempted to improve business ethics and who possessed many wonderful qualifications and held high ideals; who lived in accordance with his doctrine. Any tribute which you may pay to him in your publication, therefore, has been well earned."

Mr. Ennis was born November 23, 1890, in Brooklyn, N. Y., and his early schooling was obtained in the Brooklyn Public Schools.

In 1907 he entered the Brooklyn factory of the H. W. Johns-Manville Company, where he stayed until 1909, when he was transferred to the New York Office of the same firm. Here he remained until 1921, when he organ-

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ized the Asbestos Construction Company. He resigned from this company in 1927 to become Secretary and Treasurer of the Asbestos Board of Trade of New York. His experience in asbestos lines for 20 years (from 1907 to 1927) well fitted him for this position.

The Asbestos Board of Trade was disbanded in 1930 and Mr. Ennis then organized the Asbestos Survey Bureau, Inc., for the purpose of carrying on co-operative work among the contractors. This Bureau was dissolved in 1931 and Mr. Ennis became Vice President of Matthew Balich Corporation. In addition, in January 1932, he was elected President of the Asbestos Contractors Association. He was also a member of the American Arbitration Association.

From this brief review of his career, it will be seen that Mr. Ennis believed thoroly in cooperative work and, as one of our correspondents puts it: "was an ardent worker to create harmony among the members of the Industry." His place in the Asbestos Industry will be difficult to fill.

Mr. Ennis was fond of travel and reading, and undoubtedly their broadening influences helped him immensely in his co-operative work.

He was a member of three Masonic organizations—the Greenwood Blue Lodge, Clinton Commandary and Kismet Shrine. He is survived by his widow, three children and three brothers.

Miss America X, the largest power boat ever built in America, is equipped with asbestos helmets and suits for the use of the men who operate the boat. This new boat, built at a cost of more than $100,000, is the craft with which Gar Wood won the Harmsworth Trophy from the British challenging boat, Miss England III. Flames two feet high shoot from the multiple exhausts as the boat warms up, which is the reason for the asbestos suits.

A rimmed asbestos mat with rim removed and tacked to ironing board at extreme right end is suggested as being convenient when ironing and saves scorching the cloth and pad.

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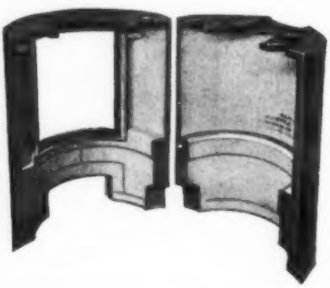
Dress Up Your Old Boiler with a Nu-Way All-Asbestos Jacket

Easier and quicker to apply, and more efficient than a covering of asbestos cement, is the Nu-way Jacket designed especially for the Arco Round steam boiler—something new in the way of boiler insulation.

This boiler jacket has a thick outer shell and top of special 6 ply double coated corrugated asbestos paper, and also an inner shell of eleven plies of ¼ in. double coated corrugated asbestos paper which extends around the fire pot surface up to the fire door. The door openings are framed in a way that allows the removal and replacement of door castings without removing the jacket.



Arco Round Steam Boiler with Nu-Way Jacket



Nu-Way "All-Asbestos" Jacket,—adjusted to boiler in 15 to 20 minutes

The irregular shape of the round boiler has been utilized to form airspaces, and the entire jacket is sealed off against circulation in a way that makes the insulation very efficient.

The jacket is applied after all piping is installed and the system tested. There is no drum effect as might occur with a metal shell used over separate insulation

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with oil burner firing. And the demand for color in almost every commodity purchased these modern days is satisfied by the beautiful turkey red finish contrasting with the jet enamelled fastening bands.

This jacket has been designed and is being manufactured by C. Stanley Morgan of Detroit, for the American Radiator Company. It is distributed thru supply jobbers and asbestos houses. Anyone interested can obtain further data from the nearest branch of the American Radiator Company, where the jacket is on display.

Russian Rubber-Asbestos Combine

One of the largest rubber factories in the world is being built at the present time in Yaroslavl, in the Ivanovo-Voznesensk industrial region, according to an article in the Monthly Review, issued in July, 1932, by the Moscow Narodny Bank Limited of London.

This factory will be part of a rubber-asbestos combine which is planned to have an annual output valued at 1,000 million roubles and to employ about 22,000 workers. The cost of construction is estimated at 270 million roubles.

It is said that the asbestos mill will produce 35 different parts for tractors and motorcars. These will include brake linings and clutch facings for the whole tractor and motor car industry of the Soviet Union.

Technical assistance in planning the production at the rubber factory is supplied by the Seiberling Rubber Co., of Akron, Ohio. Assistance in connection with the building of the asbestos works is supplied by another American company, the Multibestos Co. of Walpole, Mass.

Yaroslavl was selected as the site for the combine owing to its situation on the banks of the Volga, at an important railway junction, near great peat bogs which can be used as fuel. Manufactured tires and asbestos parts for cars will be shipped along the Volga and by rail to the Nizhni-Novgorod automobile factory, to the Stalin plant (formerly Amo) in Moscow, the Red Putiloy tractor factory in Leningrad, and the Kharkov tractor works.

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Matthew A. Neely

The Philadelphia division of the Asbestos Industry was greatly shocked by the death of Matthew A. Neely, on Sunday, September 4th. He died very suddenly, of heart disease, at his home in Germantown.

Mr. Neely had been associated for more than 25 years, and at the time of his death was General Manager of the insulation contracting firm headed by John R. Livezey, and located at 2213 W. Glenwood Avenue, Philadelphia.



"Mat," as Mr. Neely was affectionately termed by the Philadelphia insulation contractors and other business friends, was highly respected and well liked by all who knew him.

He was born on June 9th, 1877, at Edge Hill, Penna., and lived all his life in and around Philadelphia. Before connecting with John R. Livezey, he was employed by the United Gas Improvement Company of Philadelphia, but in what capacity is not known. He joined John R. Livezey in 1903.

Mr. Neely was one of the most active members of the Philadelphia Rotary Club, and also belonged to several Masonic lodges, among which were Potter Lodge No. 441, St. John's Commandary, Harmony R. A. Chapter No. 52, and Lu Lu Temple.

The funeral took place on Thursday, September 8th, and was largely attended by members of the Asbestos Industry. Mr. Neely is survived by his widow, Esther S. Neely, and a son, Matthew A. Neely, Jr.

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The Census of Manufactures 1931

The preliminary report covering the Census of Manufactures for 1931, on "Asbestos Products, Steam and Other Packing, Pipe and Boiler Covering and Gaskets" has just been issued by the Bureau of Census, U. S. Department of Commerce.

While the report as issued by the U. S. Dept. of Commerce compares the 1931 figures with those for 1929, only the 1931 figures are given below, as readers may make the comparison with 1929 by referring to the November 1930 number of "ASBESTOS", page 10.

Table No. 1 of the report gives information concerning the number of wage earners, wages paid, cost of materials, fuel, etc. 207 establishments are covered by the report, 144 being manufacturers of steam and other packing, pipe and boiler covering and gaskets, and the remaining 63 manufacturers of Asbestos products other than those just mentioned.

It is the second table, however, in which our readers will be most interested, and these figures are given in the following:

ASBESTOS PRODUCTS, STEAM AND OTHER PACKING, PIPE AND BOILER COVERING, AND GASKETS, PRODUCTION, BY KIND, QUANTITY AND VALUE

	Unit of Measure	Quantity	Value
Brake Linings (not molded)	Feet	55,661,000	$8,315,000
Clutch Facings	Pieces	22,246,000	1,953,000
Yarn	Pounds	9,683,000	2,609,000
Asbestos Shingles	Squares	566,000	$3,267,000
Asbestos Lumber (plain)	Square ft.	7,745,000	739,000
Asbestos Lumber (corru.)	Square ft.	9,163,000	825,000
Other asbestos bldg. materials[1]			808,000
Total — Asbestos Bldg. Materials			*$5,639,000*

	Unit of Measure	Quantity	Value
Pipe and boiler covering, Aircell	Lineal ft.	44,216,000	2,786,000
Pipe and boiler covering, asbestos other than aircell	Lineal ft.	7,577,000	801,000

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Cloth	Pounds	4,354,000	1,708,000
Tape, listings and tubular lagging	Pounds	2,350,000	880,000
Packing, compressed sheet	Pounds	4,253,000	930,000
Packing, fabric, flat	Pounds	862,000	339,000
Packing, woven and molded to special sections (with or without other materials)	Pounds	2,365,000	1,203,000
Gaskets	Pounds	1,452,000	737,000
Other Asbestos Textiles			641,000
Total—Asbestos Textiles			*$19,315,000*
Pipe and boiler covering, 85% Magnesia	Lineal ft.	19,418,000	2,519,000
Molded 85% Magnesia Blocks	Board ft.	11,045,000	1,133,000
Molded Asbestos Brake Lining	Lineal ft.	20,825,000	2,510,000
Millboard	Pounds	12,057,000	272,000
Asbestos insulating cements	Pounds	37,787,000	519,000
85% Magnesia Cement	Pounds	2,364,000	88,000
Table mats and protectors	Pounds	1,179,000	406,000
Other asbestos products[2]			2,775,000
Total — Miscellaneous Asbestos Products			*$13,809,000*
Gaskets, other than those shown under Asbestos Textiles			9,296,000
Metallic and semi-metallic packing			2,111,000
Steam and other packing, other than asbestos textile, metallic and semi-metallic			2,820,000
Mineral wool products			2,873,000
Grand Total — All Asbestos Products			*$55,863,000*

As the purpose of this preliminary report was to make the census statistics available at the earliest possible date, thus insuring their maximum current value, they have been compiled from returns which have not received

[1] Asbestos flexible roofing, wall tile and miscellaneous asbestos building materials.

[2] Molded asbestos blocks, molded composition insulators, high temperature cements, asbestos ebony, asbestos paper, and miscellaneous asbestos products.

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the careful scrutiny and revision which will be given them before the publication of the final reports, and are based in small part on estimates for those establishments which have not yet made their returns or whose returns were incomplete. It is believed that any revisions or corrections which may have to be made in the final report will not be of sufficient importance to have any material effect on the value of the statistics for practical purposes.

Copies of the complete report may be obtained by addressing the Bureau of Census, Department of Commerce, Washington, D. C., or thru the office of "ASBESTOS".

A report from San Francisco states that employment conditions in that city have improved and that a large number of workers obtained employment there, particularly in the building, lumber, steel, rubber, asbestos and canning industries.

CYPRUS ASBESTOS

A true Chrysotile fibre of great tensile strength, exceptionally clean and well graded, suitable for the manufacture of—

Asbestos-cement pipes, sheets and shingles
Asbestos millboard
Moulded brake lining
Etc., etc.

APPLY FOR SAMPLES AND PRICES TO SOLE AGENTS—

CYPRUS TRADING CORPORATION, Ltd.
49, ST. JAMES'S STREET
LONDON, S. W. 1

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FACT AND FANCY

The October number will be somewhat different from regular issues of "ASBESTOS". Something novel in the way of covers — and attractive. We know you will be interested — perhaps enthusiastic! Don't miss it!

One of the manufacturers helped us to work out the idea — but we'll tell you all about it next month.

If your subscription has expired, renew at once.

New Products.

"Please continue to show the readers of "ASBESTOS" that new products and better selling methods must result in profitable sales," writes one of our subscribers and good friends.

We are only too eager to do this. Will you help us by telling us all about any new asbestos product you make or hear of?

Brake Lining Without Asbestos.

Recent issues of automotive magazines have heralded, thru their advertising and editorial pages, the manufacture of a carbon base brake lining, which is described as a hard, homogeneous product, designed to give a satisfactory brake on all cars.

"Its special feature" says the advertisement "is the use of Carbon Gas Black as a basic material, instead of the asbestos usually employed."

The manufacturer of this new brake lining is The Rex-Hide Rubber Manufacturing Company of East Brady, Pa., who will no doubt be glad to supply any interested reader with further information.

The Modernization Committee.

"One important road to more buying and more employment is thru the construction industry."

This statement is made by Frederick M. Feiker, Director of the Bureau of Foreign & Domestic Commerce, and Chairman of the National Committee on Reconditioning, Remodeling and Modernizing.

Mr. Feiker calculates that potential repair, maintenance and modernization of home, commercial and indus-

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trial structures in every American Community "could be made worth three and a half billion dollars to America's unemployed," and the Committee plans to accelerate the demand for men and materials by stimulating repair and improvement of commercial, residential and industrial structures.

The tendency during depression is to limit repairs and postpone improvement. The Committee by a campaign of information and counsel directed against this tendency, will endeavor to convince building owners that now, when prices are low, is the time to remodel and modernize, and we have no doubt that they will be very successful, especially as the general public is getting into a much better state of mind, and are talking good times ahead instead of bad.

Naturally all asbestos building materials will benefit by such a program and asbestos firms are supporting the movement. Since asbestos insulation actually enables the user to save money on his coal bill; since asbestos roofs last practically forever, and since most asbestos products have extremely long life, asbestos materials should capture a large part of the market opened up by this modernization campaign.

Open House.

Business men in Huntington, Ind., are alive to the importance of having their local public interested in their operations.

Sponsored by the Chamber of Commerce, business men of Huntington will hold "open house" on certain days, the idea being a tour, conducted by an appointed guide, each of the days selected being devoted to certain manufacturing plants.

On August 3rd, the program included a tour of the Huntington Asbestos Manufacturing Company's plant.

The open house is for all residents of Huntington County.

In the Market for Large or Small Quantities of
Metallic Yarn Waste — Asbestos Textile Waste — Scrap Cloth
Yarn Cuttings — Loom Sweepings — Cardroom Strippings
NEWARK WASTE CO.
55 to 59 River Street NEWARK, NEW JERSEY

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MARKET CONDITIONS

General Business.

The National City Bank letter for September in its first paragraph sums up the general business situation in these words:

"The rise in security and commodity prices over the past few weeks has brought a new spirit of encouragement and hope to business, both in this country and in Europe, where the American markets have been considered to reflect most truly the course of the depression, and hence mostly likely to give the first sign of a turn. The long period of strain and anxiety had seemed almost to have no end, and had developed in many quarters a growth of pessimism of the gravest kind, reaching its worst in fears that the economic system itself would not survive. But the extreme fears entertained during the Spring have not been realized and now, in decisive terms, the markets show recovery from the state of panic. The anxieties caused by depreciating values are lightened, and once more people believe that business will get out of the depression, and that with co-operation and orderly adjustment the economic organization will function normally again. This is a very heartening change in a quarter where improvement was essential; for of course it was necessary that people should regain their belief in the recuperative powers of the economic system before there could be the will to spend and invest money necessary to recovery."

We are warned, however, that the many favorable factors do not imply that the world is ready for a rapid recovery to normal conditions, or that further periods of discouragement and uncertainty will not be encountered, but it is believed that business men will be satisfied with a slow rate of recovery if there is indubitable evidence over the next few months that the decline is at last over and the turn begun.

Asbestos. Raw Material.

Increase in shipments in August over July seems to indicate that the market is at least holding its own, altho

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whether the increase will be sustained cannot at the present be foretold.

Purchasers are buying from hand to mouth and such a condition will naturally last until a definite price upturn is noticeable. Inventories must be pretty low, therefore when the first indication of increased business is seen, buying should begin rather spiritedly.

The long postponed hearing of the Tariff Commission, in its investigation of Russian asbestos will be held on September 27th, and the market will no doubt remain static until the Industry learns the outcome of that hearing.

Manufactured Asbestos Goods.

Textiles. It seems impossible to get anyone to say anything very definite on the asbestos textile market. Demand continues off; prices are low. Only a small increase in automotive or other industries using asbestos textiles would showed a marked increase in asbestos textile demand.

Insulation. High Pressure. There is as yet no appreciable improvement in demand for these products. Such improvement is scarcely to be expected until and unless general business improves to the point where plants which normally used quite a lot of these materials resume more nearly normal output. True enough quite a little bit of repairing is being carried forward by some of the stronger industrial, rail and shipbuilding concerns, but this volume is not enough by any means to keep the producing units busy. Prices continue firm and may be expected to so continue, unless some small advance is made to cover, partially at least, the increased cost of manufacture and sale.

Low Pressure. Latest reports indicate seasonal improvement in this market with prices firm. While of course the improvement is not great enough to bring sales up to last year's figures, it is encouraging.

Paper and Millboard. A fairly good report can also be given of these markets, they showing some improvement, judged to be seasonal. Prices remain firm.

Asbestos Cement Products. There is little, if any, change in the market situation on asbestos cement shingles other than the normal change which might be expected at this season of the year when sales have a tendency to drop

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off slightly during the hot midsummer months.

The industry is looking forward to improved business during the fall months and prices appear to be firm without any indication whatever of further reductions. As a matter of fact, prices are virtually guaranteed on dealers' stocks by manufacturers for the balance of the year.

The above are opinions of men close to the various markets. If your ideas disagree with those opinions, give us your side of the story—we will be glad to publish it.

AUTOMOBILE PRODUCTION

Production of automotive vehicles in July showed a decided drop from May and June and, in fact was lower than any other month this year. The July total was 118,611; June's total was 190,204. July 1931 production was 218,490.

WAGE NOTES

Oakland, Calif. Present rate is $6.40 per day for insulation mechanics, the previous rate having been $8.00 per day. Certain premium men are, however, paid on the basis of 90c an hour, equivalent to $7.20 per day. For waterfront work the wage is 90c an hour with an allowance for the dirty hour. In other words, nine hours pay for eight hours work.

San Francisco, Calif. The wage scale given above for Oakland, also applies in San Francisco.

ASBESTOS STOCK QUOTATIONS

(Figures supplied thru the courtesy of Edward G. Wyckoff and Company, 1528 Walnut Street, Philadelphia, Pa.)

			August 1932		
	Par	Div.	High	Low	Last
Asb. Corp. (Com.)	np	..	....	....	12½¢
Asb. Corp. (Pfd.)	100	7	....	....	12½¢
Carey (Com.)	100	5	40	35	40
Carey (Pfd.)	100	7	80	70	70
Certainteed (Com.)	np	..	3	1	3
Garlock Packing (Pfd.)	np	..	(No Sales)		
Garlock Pkg. (Bonds)	100	6	62	59½	62
Johns-Manville (Com.)	np	..	28⅞	13¾	28½
Johns-Manville (Pfd.)	100	7	77⅜	55	74½
Raybestos-Manhattan Inc. (Com.)	np	1	9⅞	6	9
Ruberoid (Com.)	np	4	23	18	23
Thermoid (Com.)	np	..	2⅞	1¼	2¾
Thermoid (Pfd.)	100	7	(No Sales)		
Thermoid (Bonds)	100	6	47	24	47

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CONTRACTORS AND DISTRIBUTORS PAGE

PRICE CUTTING AND THE PUBLIC

(A few paragraphs taken from an address made some time ago by Charles F. Abbott, of the American Institute of Steel Construction)

Many are under the impression that because cut prices enable people to buy needed merchandise at a lower cost they are a benefit to the public. But such is far from being the case. It is true that persons who are able to secure supplies at a reduction may profit temporarily from their bargain, but in the long run they suffer because society, as a whole, is adversely affected by price demoralization.

Price-cutting has a trading down influence. If the quality of the article affected is not lowered, other brands of a lower quality are brought out in competition with it. Eventually these so-called fighting brands may dominate the trade, and the general standard of that class of merchandise becomes much inferior to what it was before the price cutting era started. Thus the public suffers.

Where fighting brands of poorer quality do not gain the ascendency, substitute articles from other industries often invade the field. Outside competition of this kind makes the easiest headway in those lines that are infested with price cutters. It is easy to see how the public loses. Not only must people pay for an inferior article, but they are deprived of the satisfaction that they would get from the use of the high grade material that is being gradually shoved off the market.

Looking at the subject from the broad social viewpoint, the situation adversely affects the interests of the public in still another way. Company after company is obliged to lay off scores of old employees. Most of these workers have families dependent on them. Many of them have been in that particular line of work for years. It will be difficult for them to establish new connections

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and to do work with which they are unfamiliar.

Likewise the public may suffer from wrecks, floods and explosions, but never places the blame where it often belongs—on the competition that forced the company that built the bridge, dam or power house to use materials not quite good enough for the job.

The first thing for business men to do is to realize their obligations to the public. The primary purpose of a business enterprise is to make money, but it cannot make money unless it serves the public well. The public will not long award its patronage to the concern that turns out shoddy goods or that builds highways or constructs bridges that have to be renewed in a few years. Once business men realize that they can only succeed by satisfying the public, they will abandon all practices that fool the buyer and that cause the ultimate consumer to get less value out of an article or a construction than he thinks he is getting.

For Wage Notes see page 29.

German Tariff Increase

Press release of the U. S. Department of Commerce, dated August 31st, contains a notice that a German tariff decree just promulgated provides drastic increases in import duties on a number of articles, among which are "Asbestos Cloth" and "Articles of Asbestos."

The new rate on Asbestos Cloth is 140 Reichsmarks per 100 kilos, while the old rate was 70. The new rate on Articles of Asbestos is 200 Reichsmarks per 100 kilos while the old one was 100.

These rates were effective September 6th.

Since Asbestos Cloth Rugs are not on the market at present, a correspondent suggests that a hearth rug, preferably of the hooked or braided variety, be lined with asbestos cloth, so that if sparks from the fireplace fall on the rug, only the rug will be damaged and not the polished floor underneath. Just another addition to the list of household uses of asbestos.

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Asbestos in Acid Manufacture

(Contributed)

There are many uses for asbestos in the manufacture of sulphuric, nitric, muriatic, and other mineral acids. As the acid business is the beginning of many other industries, asbestos is a basic necessity.

Let us first investigate the use of asbestos in the contact sulphuric acid works. Asbestos is necessary to the very heart of this process as it is used to carry the catalytic agent, which changes sulphur dioxide (SO_2) to sulphur trioxide (SO_3). Long fibre chrysotile asbestos is treated in a secret process, probably with chlorplatinic acid (H_2PtCl_6). By this method platinum replaces magnesium, at least to some extent, in the asbestos fibre. The resultant fibre is a beautiful golden yellow. The converter in which this treated fibre is used, is a large cylinder, about 8 feet in diameter, and 8 feet high. It is filled with a series of 30 or more horizontal perforated steel plates, about 2 inches apart, on which the treated asbestos is carefully shaken, to the depth of an inch, so as to cover the plate thoroly, but not bed down. The hot sulphur dioxide gas forced thru the mass is converted to sulphur trioxide.

Asbestos in two other forms is also used in these converters. Twisted wick is used at the edges of the steel plate to caulk, so that gas will not channel by the plate and not contact the platinized asbestos. The first two or three plates in the top of the converter are covered with blue crocidolite asbestos, which is well fiberized, and carefully shaken on the plates. This acts as a filter to keep dirt and foreign matter from covering the platinized asbestos and destroying its effectiveness. These top plates are removed from time to time, cleaned and replaced.

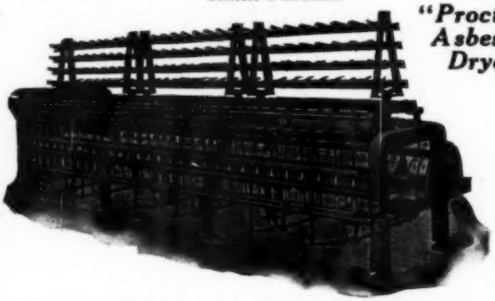
In the form of blankets, or as 85% magnesia blocks, asbestos is also used on the outside of the converters, and their accompanying heat transferrers, as insulation. There are many other hot surfaces in an acid plant, that are kept from cooling by various types of asbestos insulation.

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ASBESTOS YARN MACHINERY

"Smith-Furbush"

"Proctor" Asbestos Dryers



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

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

High-Grade Asbestos Textiles

CARDED FIBRES
YARNS. CORD, MANTLE YARNS
PLAIN AND METALLIC CLOTHS
BRAIDED AND WOVEN TAPES
BRAIDED TUBINGS
WOVEN SHEET PACKINGS
WOVEN BRAKE LININGS
GLOVES, MITTENS, LEGGINS
GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
WICK AND ROPE

ASBESTOS FIBRE SPINNING COMPANY

NORTH WALES, — PENNA.

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In the acid pumps braided blue asbestos, treated with acid resistant materials, is used as pump packing. No other material has been as satisfactory as the blue asbestos.

Asbestos together with silicate of soda is used as a caulking or patching compound for acid tanks or pipe lines. This is very effective, as the acid quickly absorbs the water from the silicate of soda, setting it at once. The asbestos being acid resistant makes the set permanent.

In nitric acid towers, blue asbestos braided or woven, and treated with acid resistant compounds, is used as gaskets or the like. It is one of the very few materials to successfully withstand hot concentrated nitric acid.

On the earthenware towers and lines of the muriatic acid plant, asbestos wick or rope, plain or treated, is used as grommets or seals.

Under the top of acid carboys carrying any of these acids is used a twist of asbestos wick saturated with paraffine or other acid resistant material. This is an effective seal for carboy tops.

There are many other uses for asbestos in this industry where an acid resistant substance is indispensable.

RUSSIAN ASBESTOS

OF

ALL GRADES TO SHORTS

FOR TEXTILES, SHINGLES, MOULDED BRAKE LININGS,

85% MAGNESIA COVERINGS, ETC.

EXTREMELY STRONG

ASK FOR SAMPLES AND PRICES

AMTORG TRADING CORPORATION

261 FIFTH AVENUE NEW YORK, N. Y.

OR

ASBESTOS LIMITED, INC.

8 WEST 40TH STREET NEW YORK, N. Y.



Africa (Rhodesia).

(Statistics published by Rhodesia Chamber of Mines).

	June 1932 Tons (2000 lbs.)	Value
Bulawayo District		
Nil Desperandum (Afr. Asb. Mng. Co. Ltd.)	270.00	£3,375 .... ..
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	1,335.67	16,695 17 6
Victoria District		
Gath's & King (Rho. & Gen. Asb. Corp. Ltd.)	249.97	3,124 13 9
	1,855.64	£23,195 11 3

Canada.

(Statistics published by Bureau of Mines, Province of Quebec).

Production—Divided by Grades	July 1932 Tons (2000 lbs.)
Crude No. 1	4
Crude No. 2	11
Other Crudes	....
Spinning Fibres	329
Shingle Stocks	981
Paper Stocks	1,028
Waste, Stucco or Plaster Materials	1,353
Refuse or shorts	3,465
	7,171
By products (Sand, gravel, etc.)	340
Production July 1931	*13,597*
Production June 1932	7,977

Africa (Union of South).

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

	1931 Tons (2000 lbs.)	Value	1932 Tons (2000 lbs.)	Value
Transvaal				
Amosite	161.00	£ 1,550	74.00	£ 740
Chrysotile	524.00	6,856	609.00	5,169
Cape				
Blue	253.73	8,332	103.91	1,993
	938.73	£16,738	786.91	£7,902

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Imports Into U. S. A.

Unmanufactured Asbestos.

	July 1931 Tons (2240 lbs.)	July 1931 Value	July 1932 Tons (2240 lbs.)	July 1932 Value
Africa (Br. S.)	102	$ 11,769	.....	.....
Africa (Port. E.)	.....	.....	94	$ 11,672
Canada	9,123	269,925	5,589	150,635
Italy	1	530	2	1,135
United Kingdom	135	28,881	..	.....
	9,361	$311,105	5,685	$163,442

Tabulation of Crudes and Fibres:

All the above is Crude with the exception of Canada, which is divided as follows:

Crude	37	10,866	23	7,000
Mill Fibre	3,677	175,135	2,058	88,160
Lower Grades	5,409	83,924	3,508	55,475
	9,123	$269,925	5,589	$150,635

Manufactured Asbestos Goods:

	July 1931 Pounds	July 1931 Value	July 1932 Pounds	July 1932 Value
Yarn—				
Germany	4,933	$ 3,169	.....	.....
United Kingdom	7,000	1,425	590	$ 200
Fabric, Woven — None.				
Packing, Fabric—				
Germany	173	75	73	38
United Kingdom	996	753	1,171	568
Packing, Not Fabric—				
Austria	21,115	7,490	.....	.....
Germany	4,786	1,471	495	56
United Kingdom	2,417	596	1,176	261
Shingles and Slates of Asbestos Cement — None.				
Articles in part of Asbestos, Decorated—				
Canada	79,640	2,915	635	55
Articles in part of Asbestos, Plain—				
Canada	.....	.....	1,455	42
France	.....	.....	2,426	224
Italy	23,242	742	.....	.....
Brake and Clutch Lining, Molded — None.				

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	July 1931 Pounds	July 1931 Value	July 1932 Pounds	July 1932 Value
Brake and Clutch Lining, Woven—				
Canada	.....	.....	84	32
Germany	.....	.....	1,700	345
United Kingdom	.....	.....	200	69
Pipe Covering and Cement—				
United Kingdom	24,000	2,823	.....	.....
Paper and Millboard—				
Canada	.....	.....	9,878	339
	168,302	$21,459	19,883	$2,229

Exports from U. S. A.

Exports of Unmanufactured Asbestos during the month of June[1] 1932 amounted to 72 tons, valued at $2,287; during June 1931 166 tons valued at $11,770 were exported.

Exports of Manufactured Asbestos Goods:

	June[1] 1931 Pounds	June[1] 1931 Value	June[1] 1932 Pounds	June[1] 1932 Value
Paper, Mlbd. & Rlbd.	98,005	$10,582	31,690	$3,511
Pipe Covg. & Cement	143,639	9,663	78,939	6,373
Textiles, Yarn & Packing	133,947	61,549	48,280	27,907
Brake and Clutch Lining				
Molded and Semi-Molded		48,543		46,716
Not Molded[2]	437,452	78,250	230,309	32,399
Asbestos Roofing[3]	3,343	4,478	2,825	9,647
Magnesia & Mfrs. of	245,104	18,435	106,651	7,071
Other Asbestos Mfrs.	162,971	24,787	114,975	15,651

[1] Exports one mo. behind imports. [2] Lin. ft. [3] Squares.

Exports of Raw Asbestos from Canada.

	July 1931 Tons (2000 lbs.)	July 1931 Value	July 1932 Tons (2000 lbs.)	July 1932 Value
United Kingdom	91	$ 10,573	102	$ 4,667
United States	3,684	181,816	1,807	93,425
Australia	.....	.....	53	2,850
Belgium	457	27,746	....	.....
France	20	1,500	....	.....
Germany	265	29,550	117	4,498
Italy	99	12,375	31	3,715
Japan	639	31,106	375	17,750
Netherlands	....	.....	22	990
Spain	22	990	22	990
	5,277	$295,656	2,529	$128,885

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	July 1931		July 1932	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Sand and Waste—				
United Kingdom	5	63	.....	.....
United States	5,473	77,062	3,998	61,158
Belgium	120	1,890	30	540
France	.....	.....	30	750
Germany	123	2,865	....	.....
Italy	22	550	27	675
Japan	33	825	20	250
Netherlands	80	2,000	50	1,250
Porto Rico	....	.....	30	330
Spain	....	.....	....	.....
	5,856	$85,255	4,185	$64,953
Total	*11,133*	*$380,911*	*6,714*	*$193,838*

Imports and Exports by England.

Imports of Raw Material.

	July 1931		July 1932	
	Tons (2240 lbs.)	Value	Tons (2240 lbs.)	Value
Africa (Rhodesia)	1,073	£26,864	332	£ 8,232
Canada	104	1,844	136	1,627
Africa (Union of South)	152	3,500	689	12,900
Africa (Port. E.)	18	133	45	1,502
Australia	15	90	....	.....
Belgium	5	96	....	.....
Cyprus	45	1,075	63	1,120
Finland	18	189	....	.....
Germany	69	2,163	....	.....
Italy	10	40	....	10
Spain	83	1,600	....	....
United States of America	400	10,957	180	2,636
	1,992	£48,551	1,445	£28,027
Re-shipments	184	4,676	.....	4

Exports of Manufactured Asbestos Goods:

To Netherlands	129	£ 8,113	22	£ 2,101
To France	35	3,836	43	2,785
To U. S. of America	13	1,289	....	117
To British India	266	7,480	51	5,557
To Australia	9	1,138	15	3,163
To Other Countries	1,304	49,761	805	44,104
	1,756	£71,617	936	£57,827

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THIS AND THAT

It isn't the mountain ahead that wears you out — it's the grain of sand in your shoe. Be master of your petty annoyances and conserve your energies for the big, worthwhile things.

Annual report of The Zonolite Company of Libby, Mont., has been published under date of July 26th, as of June 30th, and a copy is in our hands.

The report states that tonnages sold during the fiscal year ended June 30th were 50.4% greater than in the previous fiscal year, with an attending increase of 44.03% in money returns on sales. Anyone interested may borrow the complete report.

The Administration Building of Chicago World's Fair—Century of Progress Exposition—has its pipes insulated with six ply one inch thick Aircell Pipe Covering, furnished by Grant Wilson, Inc., of Chicago.

Some good lessons are coming out of all the Depression we have suffered. Almost everybody these days is darned polite to the people they do business with. Practically everybody's careful about expenses. Folks are learning to appreciate the value of a steady job. Out of the bitter may come forth considerable sweet—for the future of business. From Discussion, published by S. Roland Hall of Easton, Pa.

The Quinn Stove Repair Co. of Lowell, Mass., on August 19th and 20th, made a special offer of five and one-half feet of high grade asbestos oil burner wicking, enough for two burners, and one asbestos lighting taper, for the sum of 10c if accompanied by a coupon appearing in the local newspaper.

Be sure you see the October number with its novel cover.

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NEWS OF THE INDUSTRY

Birthdays. Our birthday list this month contains the following names: W. N. Bolster, President and Treasurer, Asbestos Covering & Textile Company, Boston, Mass., whose birthday falls on September 20th; G. Koerner, President, Insulating & Materials Co., St. Louis, Mo., September 24th; M. William Bray, Secretary, Mohawk Asbestos Shingle Company, Inc., Utica, N. Y., September 25th; C. Stanley Morgan, Detroit, Mich., September 25th; M. J. O'Malley, President, Standard Asbestos Mfg. Co., Chicago, Ill., September 26th; Fred Surridge, Manager R. V. Aycock Co., St. Louis, Mo., September 26th; J. M. High, Secretary and Sales Manager, Norristown Magnesia & Asbestos Co., Norristown, Pa., September 28th; William B. Brown, Vice President Lotz Asbestos Co., Hartford, Conn., September 29th; O. P. Hennig, President, Hennig Asbestos & Packing Co., Chicago, Ill., October 3rd; John H. Victor, President, Victor Mfg. & Gasket Co., Chicago, Ill., October 9th; Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Co., October 9th; William Brookes, President, Ferodo Asbestos, Inc., New Brunswick, N. J., October 13th; Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14th; R. J. Evans, Vice President & General Manager, Asbestos Manufacturing Co., Huntington, Ind., October 15th. To all of these gentlemen we extend congratulations and best wishes.

Johns-Manville Corporation will erect a special building in the Home and Industrial Arts Group of the "Century of Progress" Exposition, to be held in Chicago in 1933.

The building will be designed by Ely Jacques Kahn, New York architect, and will reflect in both the building and the exhibit which it houses, the decorative and economic trends in modern architecture. While complete plans of the building are not as yet available, preliminary designing indicates that the building will be divided into several sections, each devoted to one of the major activities.

Dramatic and interesting exhibits will illustrate the control of sound and progress made in acoustical correction and sound control; modern methods of control of heat and cold, both in industrial and commercial buildings and in the home; a third section will undoubtedly be devoted to modern building materials as developed by Johns-Manville, particularly those featuring fire and weather resistance. Other phases of the company's service will be shown.

The Superbestos Corporation. It is reported that H. S. Mikesell of Chicago, well known in the asbestos industry, with several capitalists of that city, has organized The Superbestos Corporation under an Illinois Charter, with $100,000 paid in capital to engage in the manufacture and the sale of brake linings,

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Cape Asbestos Company

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Factory, Barking, Essex

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clutch facings, brake blocks and allied materials to be produced in a new and extensive plant at Watseka, Ill., a short distance from Chicago.

New and modern types of machinery and equipment are now being installed in the new factory buildings, and production will commence about September 15th.

It is said that Mr. Mikesell will be President of the new organization and H. L. Parmenter, for many years engaged in the marketing of asbestos materials, will be connected with the enterprise in the Sales Department. Temporary address of the new organization is 750 Old Colony Building, Chicago.

Raybestos-Manhattan, Inc. During the six months ended June 30, 1932, Raybestos-Manhattan, Inc., incurred a net loss of $117,600.10, after charges of $275,734.93 for depreciation. The Directors declared a dividend of fifteen cents per share, payable September 15, 1932, to stockholders of record at the close of business August 31, 1932.

W. N. Bolster, President and Treasurer, of the Asbestos Covering & Textile Company, will, during the present month, observe his 21st anniversary in the asbestos industry.

Mr. Bolster started in 1911 with the Keasbey & Mattison Company, Boston Branch, as salesman and estimator. In 1918 he organized the Asbestos Covering and Textile Company, and for the past three years that firm has served the Johns-Manville Corporation as approved insulation contractor. They also handle home insulation, the J. M. method of installing Rock Wool in buildings.

Ettore Allegra, Viale Abruzzi No. 92, Milano, Italy, has recently taken charge of the technical and commercial Management Direction of a leading group producing Italian Asbestos. Mr. Allegra has also taken over the Management of a Talc and Steatite (soapstone) Mine.

George MacLellan & Co., Ltd. It is with much regret that we announce to our readers the death of Peter MacLellan, Chairman of George MacLellan & Co., Ltd., of Maryhill, Glasgow, Scotland, on Monday, August 15th. Funeral services were held at Cormiston Towers, his country home, on Wednesday, August 17th, and burial at Western Necropolis. Mr. MacLellan was in his 77th year, and was well known in the rubber trade, in the development of which he played no small part.

PATENTS

Friction Element. No 1,866,287. Granted on July 5th to William A. Blume, Detroit, Mich. Assignor to American Brake Materials Corporation, New York City. Filed October 2, 1929. Serial No. 396,936.

Described as a friction element consisting of a solid compressed mixture of asbestos, finely divided natural pyrobituminous material and a binder, including a hard rubber cement and a drying vegetable oil.

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Asbestos Cement and the Like in Plastic Condition, Apparatus for simultaneously corrugating and trimming sheets of. No. 1,868,645. Granted on July 26th, to Leon Scheerders-Van Kerchove, St. Nicolas-Waes, Belgium. Assignor to Usines Reunies Scheerders Van Kerchove, Societe Anoyme. Filed April 30, 1930. Serial No. 448,709, and in Belgium October 26, 1929.

Described as a machine for corrugating and trimming sheets of Asbestos Cement when in plastic condition, comprising an open framework, a corrugated plate of steel, forming a mould and supported by longitudinal bars, fixed knives arranged on both sides of and close to the pattern mould, a rectangular frame movable and guided along the uprights of the fixed frame, partitions arranged end wise of the movable frame and having substantially vertical slots of variable dimension to lodge a number of bars arranged parallel to the corrugations of the pattern mould, the slots being of increasing depth towards the central portion, knives supported by the movable frame to shear the edges of the asbestos cement sheet in cooperation with the fixed knives, the arrangement being such that said shearing action occurs before the outer bars will engage the corrugations of the mould, means to reciprocate the movable frame, a shaft underneath the pattern mould, chain wheels upon said shaft, means to lift the shaft so that its chain wheels engage the pattern mould when all the bars are released from same and carry the corrugated sheet and mould out of the machine.

Shingle. No. 1,871,646. Granted on August 16th to Herbert Abraham, New York, assignor to Ruberoid Company, New York. Filed June 1, 1931. Serial No. 541,247.

Described as a shingle of substantially rectangular form adapted to be laid in side lap relation with laps of different widths.

Cement Asbestos Products. No. 1,872,480. Granted on August 16th to Ernest J. Maust, New York, assignor to Dorr Company, Inc. Filed July 17, 1931. Serial No. 551,440.

Described as in a process adapted for the manufacture of Cement Asbestos Products by use of a dilute initial slurry, the step of conditioning such slurry by means of a flocculating agent.

Process for Cold Enameling Asbestos Cement Plates. No. 1,874,974. Granted on August 30th, to Pieter Alfons Hammenecker, Mariekerke, Belgium. Assigned to Ruberoid Company, New York. Filed November 26, 1930. Serial No. 498,437, and in Belgium, December 11, 1929.

Described as the process of enameling asbestos cement plates which consists in applying a facing of cement paste to a surface of the plate while the plate is moist, polishing and hardening the facing and then exposing the plate to the action of carbon dioxide.

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  - Imperial Brand
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  - Watcocel Brand
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- Lagging Blocks
  - Aristo Laminated
  - Imperial Brand
  - Celasbestos Brand
  - Watcocel Brand

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- Tarred Felts
- Roofing Asphalt
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