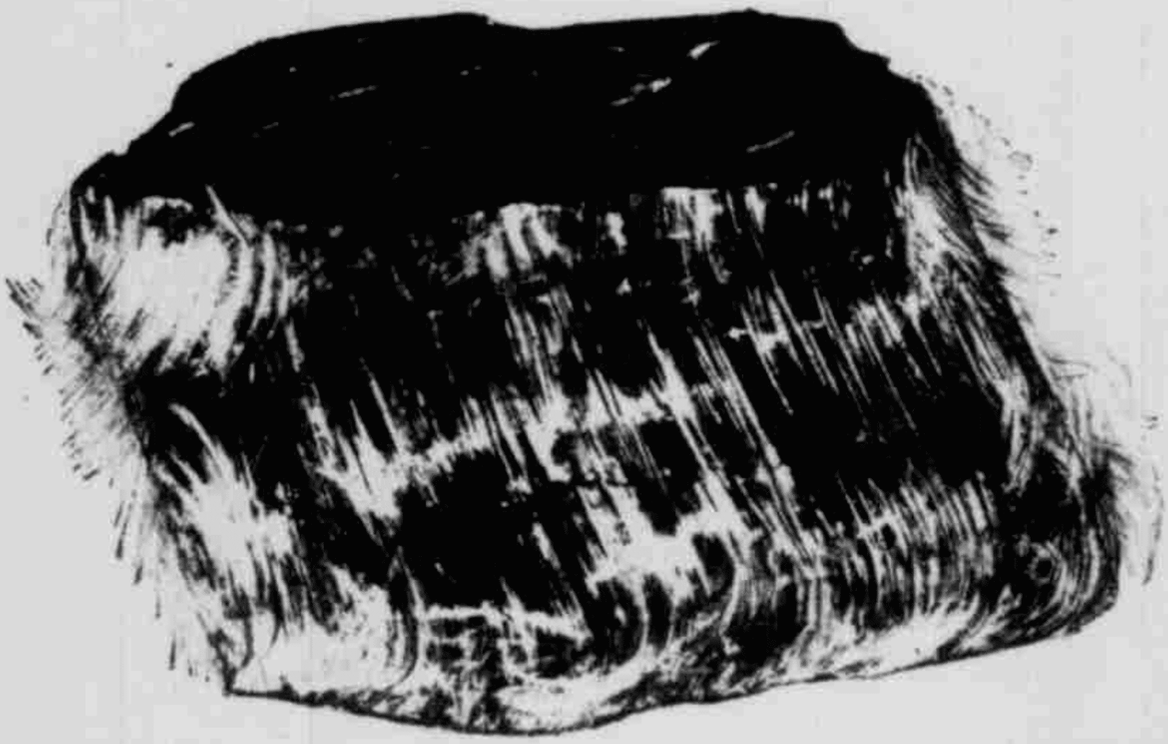
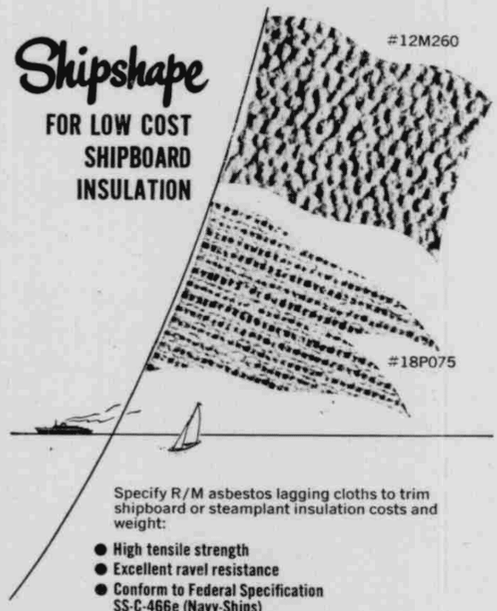


Canadian Crude

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

Volume 46 MAY 1965 Number 11

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ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - - - $3.00 Per Year
Canada - $4.00 Per Year Foreign Countries - $4.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
(Payable in U. S. Funds)

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ASBESTOS TRANSPORTATION

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

(Mr. Sinclair is Consulting Engineer to Puttens Asbestos Corporation Limited, Johannesburg, London & Salisbury.)

A recent news item entitled "Logging Takes to the Air" described an innovation, in which giant balloons are utilized to transport heavy logs from the forest, where they are felled, to a stacking area, some distance away. This new method of materials handling (a term which includes transportation) is taking place in the forest coastal region north of Vancouver, British Columbia. It would appear to be a more economical means than other mechanized systems designed to displace the old manual methods of elephant logging.

The transportation of logs obviously has little in common with asbestos, but the above case does draw attention to the fact that asbestos is a mineral subject to a great deal of handling and, in many instances, to excessive transportation from mine to factory or to world markets abroad.

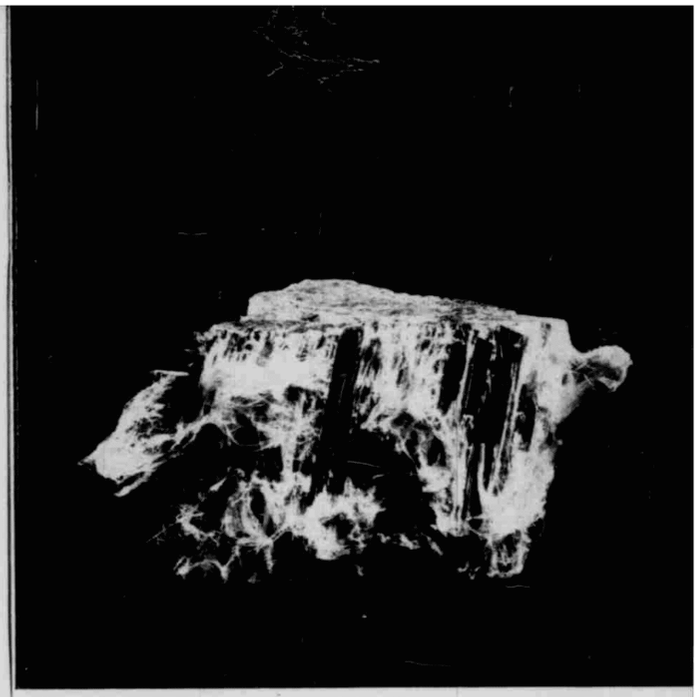
This work of material handling has not always been given serious attention as a cost factor in production economy, but in the changing face in operating methods today, due mainly to mechanization, the question assumes a work of major importance.

Gone are the days (not so very long ago) when the mineral output from isolated mines was shipped to railhead on donkeys' backs.

Apart from the advantage of low transportation costs, time, in the good old days, was not considered a cost factor as it is today.

The growing output from many producing mines has inevitably brought to light the fact that the work of loading, conveying and transportation constitutes tasks that need careful consideration, in their many facets, to prevent the waste of time and money .

The whole question is one that covers an extensive and variable field starting in the mining and milling and conveyance of the raw material and, finally, the handling and transport of the treated fibres by factories and industrial concerns. Because of the different aspects of the operations, it can be truly said that, considered broadly, transportation



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or the conveyance of materials constitutes work of many variable and inconstant problems. In order to co-ordinate these operations effectively, difficulties appear that are only resolved by a considered compromise of cost and efficiency. As an example, it might be shown that the traffic problem reduced to the work of loading, hauling and dumping broken material is not exactly a straightforward job in mining and milling operations.

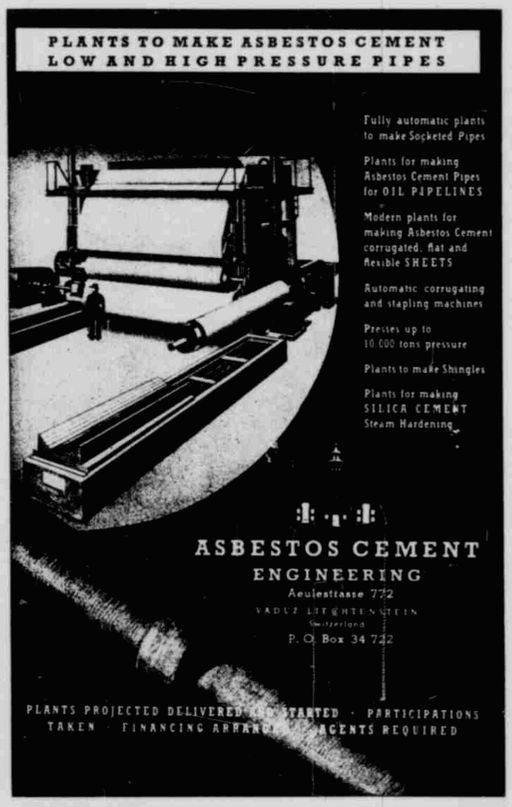
This question assumes an even more complex problem when the materials to be handled are a wide range of physical forms such as, broken ore in bulk, crushed fibers in packages (as in bags, boxes or crates), and in some cases, even as liquids (fuel oil), etc. To achieve smooth concurrence in the handling of material of this kind, careful choice of methods of loading, intermediate transfer, reloading, conveyance and possibly stacking, poses an important efficiency problem.

A simple example of the smooth and uninterrupted handling of materials in varied forms is provided in the simplest milling process. First, the raw material is delivered as coarsely broken rock and is steadily changed and conveyed through various stages to fibre, sand and grit and dust, each of which products is mechanically handled and conveyed in different manner to its ultimate goal, pending further handling and conveyance.

Materials handling has, in recent years, become the necessary subject of intensive work studies to find an economical solution to what may be, and so often is, an inefficient series of costly operations. It is clear from these studies that even though a system is, in itself, proved efficient, the same conditions must apply to all other operations connected with it. If this is not done, it is always possible that the whole system may be adversely affected, because of lack of perfect coordination.

The fact is, although it may seem strange, the science of materials handling is basically and practically a rather complex system, consisting, as it does, of several operations that call for careful advance planning to ensure the elimination of all limiting variables.

Generalization of these conditions may well apply to the larger aspect of the shipment of materials over long



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distances, although the transportation of products by road, rail or sea is usually a more straightforward job. There are occasions, however, when transport is a combination of all three. Even so, however, it rarely involves the problem of localized conveyance of materials such as, belt conveyor systems, aerial cableways or by pipeline, all of which involve such factors as quantities, distances, load factor, speed of appliances and the working life of the equipment.

In typical large scale operations it is obvious that mechanized methods constitute the basic advance in the economic application of material handling techniques, added to which may be the fact that latest methods include automatic controls in many cases. Indeed, this is an important introduction in communication systems in the handling and haulage of ore underground. A variety of devices such as lights, hooters, two-way radio telephones amongst others, are commonly used today to ensure speedier, but safe haulage operations.

As applied in other transportation methods, mechanization must include consideration of men and materials, besides the machines or vehicles used. Naturally, the selection of the best plant and equipment suited to the work in hand is of paramount importance, more especially where two or more machines or a series of appliances are employed in conjunction with other equipment, such as loading on to trucks or conveyors. The smooth and continuous flow of material is of primary importance, a factor that may be influenced by the class and physical form of material being handled. These operations require experienced control men and, as in the case of all mechanized work, skilled operators are essential to ensure maximum efficiency.

These various points have often been referred to under different headings in terms of efficiency and economy. The study of quantity, quality and time are classed as the fundamental factors to be considered in any proposed system.

Quantity is simply a question of the load factor, that is the weight of the material, the loads to be handled and the plant capacity. This then also introduces the question of the form taken by the load, whether bulk, such as ore, loose fibre or tailings. Platform scales, weightometers and

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similar appliances are usually employed in this category while, in the case of liquid loads, air cell systems are used. Material in bags or crates are usually packed in standard unit weights.

Quality control is considered as the function of efficiency, serving as a comparative means of determining the best methods and the most economical in material handling. This constitutes one of the most important factors in the selection of one or more (usually several) systems and the coordination of such mechanical means to achieve economic results.

Time control enters into the question as much as anything. Indeed, it plays an important part in every system since the comparable speediness of different methods and the possibility of reducing the handling period is of vital import. Likewise, the timing of the various machines to attain and ensure perfect synchronization is an essential requisite to make certain of a smooth and continuous flow, with a reasonable allowance for flexibility, in the operations as a whole.

It is by the study of these observations, in the matter of transportation, that many isolated mining propositions are enabled to produce economically, despite high freight rates. Similarly, large producers, within easy reach of asbestos markets, realize the economic importance of material-handling in their underground and surface operations.

CASSIAR/CLINTON CREEK—Approval was granted at the annual meeting of Cassiar Asbestos Corporation Limited to increase the authorized capital required to bring the company's Clinton Creek asbestos mine into production early in 1968. A detailed account of these plans appeared on page 8 of the April 1965 issue of "ASBESTOS".

RUSSELL E. CRAWFORD, SR., former Vice President and Secretary of the *Ehret Magnesia Company*, Valley Forge, Pennsylvania, died April 22nd. 1965. He was 73 and lived in Norristown, Pennsylvania.

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RAOUL LAPIERRE

Assistant Treasurer—Bell Asbestos Mines

Pity the man who gets hundreds of bills to pay every month. But that is the case with Bell Asbestos Mines Assistant Treasurer, Raoul Lapierre. His job is to keep the company's books, to prepare reports for company management on operating and projected costs, and to prepare budgets. In addition, all bills—payable and receivable—pass through his hands. He also takes charge of invoicing customers for the fibre that is sold them.

Mr. Lapierre has been with the company for 36 years and his career with Bell Asbestos began as a timekeeper. Following a period in the shipping department (he finished in charge), he was appointed an accountant and was promoted to his present position last year.

His education was divided between Thetford Mines and the Sherbrooke School of Commerce and his only regret is that he never became a chartered accountant. According to Mr. Lapierre, "You can master the science of accountancy if you learn by experience, but it saves a lot of time and effort if you obtain the proper qualifications in the first place."

His father Laureat Lapierre, Office Manager at Bell until 1933, served as Deputy for Megantic County from 1916 to 1933.

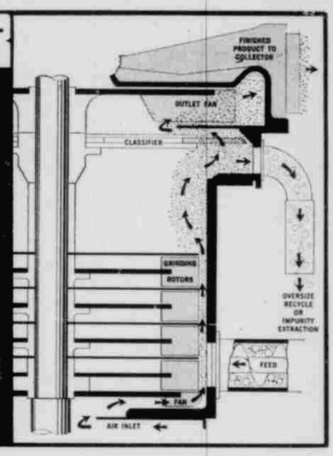
Mr. Lapierre believes that for a young man, accountancy offers an excellent career. "But, today it is more important than ever before to be a chartered accountant. In a business such as ours, the accountant's job is growing more and more important".

Mr. Lapierre is not worried by competition from automated accounting methods. "These machines look terrifying, but they are just tools that give you the facts you need swiftly and accurately. They do not change the basic principles of accounting".

In his spare time, Mr. Lappierre is an active member of the Recreation Centre Commission and faced off the puck in the Cleveland-Quebec Aces game held in the center last year in September.

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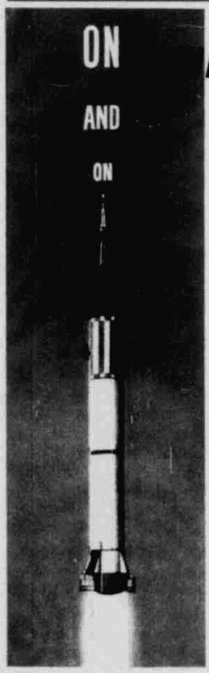
The Bauer Bros. Co. Springfield, Ohio

In Canada: The Bauer Bros. Co. (Canada) Ltd., Brantford, Ont.

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ASBESTOS/ASPHALT TEST—Oklahoma is building a highway which engineers hope will show a surface failure in three years. The test road is a 5-mile stretch and will cost $641,000, but the results may save much more. 40 to 60 pounds of short fiber asbestos (each only 7 millimeters long) is being mixed into every ton of asphaltic concrete going into 10 of 16 road sections. The other sections are standard paving. Asbestos producers claim the fiber will strengthen the road surface by reducing oxidation. If the theory proves correct, it would offer more stability and reduce rutting and "shoving", or ripples. Officials will grade the road based on which sections fail first and to what degree. If asbestos fibers prove to be a strengthening agent, it could mean highway engineers could change the present design and get a better road at a cheaper price. Although the road is purposely sub-standard, there is no danger to drivers. *Johns-Manville Corporation* is furnishing the fibers free to the highway department. Following the test, the road will be brought up to standard, with the present surface becoming part of the base, at a cost of about $20,000. (From the Oklahoma City Times, February 5, 1965, *Copyright 1965, The Oklahoma Publishing Co.)

CRATER AT ASBESTOS—Canada's biggest man-made hole is going to get bigger, and in the process will chew another sizeable chunk from the town which has perched on its brink, bags packed and ready to retreat, for the last three-quarters of a century. But the people of Asbestos, Quebec, do not really mind these periodic gouges from the municipal real estate, because without the Jeffrey Mine of Canadian Johns-Manville Company Limited, there probably would not be a town at all. The present expansion will cut a crescent-shaped wedge from the eastern rim of the mine, extending back a couple of blocks into Asbestos at its widest point. It will allow mining operations to descend another 500 feet to the 1,000-foot level. The surface diameter of the crater will then be almost a mile across.



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THE FLINTKOTE COMPANY has completed an arrangement with the *Engineered Container Corporation* of Houston, Texas, whereby Flintkote has assumed complete management control of the southwestern container company. This agreement gave Flintkote the option to purchase the physical assets of the company at a later date. Flintkote's Hankins Container Division will operate the plant and this arrangement will serve to bolster the division's marketing position in the southwest with particular emphasis on Texas and southern Louisiana. The Houston plant will produce and market a wide range of corrugated shipping containers and a full line of specialty items, including displays, under the Hankins trade name.

THE FLINTKOTE COMPANY has announced the acquisition of the Granby, Quebec, Canada plant of *Evertex Company Limited*, and the exclusive right to manufacture and distribute Evertex's Walk-Ease cushioned-back sheet vinyl flooring line in Canada and the United States. The Granby plant will be operated by Flintkote's Canadian subsidiary, The Flintkote Company of Canada Limited. The complete line of Walk-Ease vinyl sheet goods products will be imported, by the Flintkote Division, into the United States from the newly-acquired Canadian plant until such time as manufacturing facilities for these products are built in this country.

THE FLINTKOTE COMPANY operates 175 plants in the United States, Canada and overseas, produces a wide line of building materials and construction products, and is a major producer of cartons, containers and packaging. Also, the company was a pioneer in the introduction and manufacture of asbestos-asphalt and vinyl-asbestos floor tile.

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RAYBESTOS-MANHATTAN'S Aerospace Division has developed a new, high temperature resistant, prepreg felt for rocket and missile applications which exhibits excellent strength retention at elevated temperatures, retaining 80% of the original flexural strength after exposure at 700°F for 1,000 hours. R/M Style 48-RPD Pyrotex prepreg felts are manufactured from a spinning grade Chrysotile asbestos fiber carded into ASTM Grade AAAA felt. This felt is then completely impregnated with a carefully selected inorganic resin system. This material also has superior strength properties which make it especially suitable for such applications as structural members and insulators and parts may be fabricated with mold pressures of 200 psi and higher. A post cure is recommended to obtain optimum physical properties. The material is available as a prepreg felt approximately 0.013 inches thick and in widths of 2 to 50 inches. In this form it is easily processed by conventional forming and lay-up techniques. The material is also available in 20-inch-square laminated panels in thickness of 1/8-inch and greater.

ASBESTOS TEXTILE INSTITUTE will hold its next General Meeting, June 2nd through 4th, 1965, at Thetford Mines, Quebec, Canada, at the invitation of Canadian miners. The last meeting the Institute held in Canada, also at Thetford Mines, was in June 1960. Headquarters for the meeting will be the new and modern Motel Le Provence Inc., situated on Route 1, between Thetford and Black Lake. Along with the meeting will be included visits to the mines.

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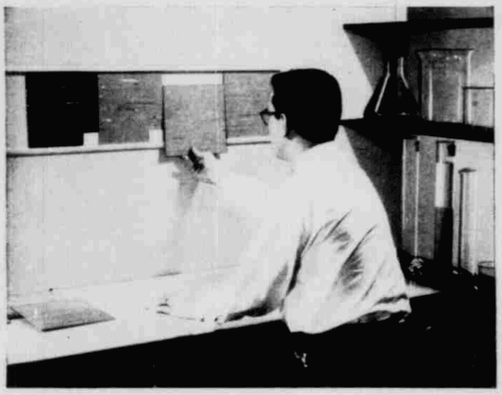
Cassiar Asbestos Corporation Limited

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BUILDING—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., MARCH 1965 construction contracts showed continued strength in nonresidential building and offered further evidence of a recovery in housing. Total value of contracts for future construction tabulated was $4,209,289,000, equalling the volume reported for March 1964. Residential building contracts made further gains in March, confirming earlier indications that a housing recovery is in the making. Both single-family and apartments contracts scored better-than-seasonally anticipated gains. Total residential contract value was $1,876,615,000, to come within 6% of the peak value of March 1964. Contracts for nonresidential building (commercial, educational, hospitals and industrial) amounted to $1,379,244,000, for a 10% gain over the year ago amount. Contracts for nonbuilding construction work reached a total of $953,430,000. Although high by historical standards, this value was nevertheless 2% below the year-ago total which was swelled by a large volume of military construction. Street and highway contracts rose 3% and utilities showed nearly double the volume of construction value reported last March.

Total construction for the first three months of this year amounted to $10,531,265,000, 2% below the figure for the same period in 1964.

A. L. PENHALE, President and Managing Director of *Asbestos Corporation Limited*, was awarded the "Institute Medal for Distinguished Service" for 1965 by the *Canadian Institute of Mining and Metallurgy*. This is one of C.I.M.'s highest honors and the citation accompanying the award to Mr. Penhale reads: "In recognition of his outstanding contribution as a leading administrator of the Canadian mineral industry and for his devotion to duties as Councillor, Vice-President and finally President of the C.I.M. and particularly for the valuable services rendered the Institute when special direction was importantly required". (The Northern Miner)



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Gold Bond
ASBESTOS FIBRES

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THE NORTHERN MINER, to celebrate its 50th anniversary in March of this year, has issued a magazine supplement by Norman C. Pearce entitled "50 Years Of Mining". This interesting 16-page supplement relates the story of The Northern Miner, the tale of its times, and an account of its career.

HUMES LIMITED has issued *Technical Bulletin No. 1*, the first of many supplements to "Hume News", the company's monthly journal. This supplement is being introduced as a service particularly to engineers, architects, contractors, and others engaged in work in which technical knowledge is an advantage. The first bulletin pertains to choosing, ordering and designing concrete pipes and further Technical Bulletins will be issued whenever useful material is available.

ASBESTOSPRAY CORPORATION has issued an interesting brochure listing description, application, contractors, and engineering service information as well as the advantages of *Asbestos High Temperature Insulation*. This insulation is a quality mixture of virgin African asbestos fibers and inorganic heat-resistant binders. The components have been combined by a controlled blending process which assures product uniformity and optimum consistency for spray application.

THE NEW WORLD OF FABRICS, by Irmengarde Eberle, is a very interesting, informative and beautifully illustrated book describing the use of textiles, where and how the raw materials are obtained, and how these materials become fibers and then are woven, by hand or machinery, into fabrics. Included in this book is a chapter on asbestos fiber and cloth. One of the purposes this book is for use by schools and public libraries and is available from the publisher, Dodd, Mead & Company, New York City, at $2.79 per copy. (Editor's Note: It will interest our readers to know that the author of this book is the wife of Arnold W. Koehler, who is well known in the Asbestos Industry.)

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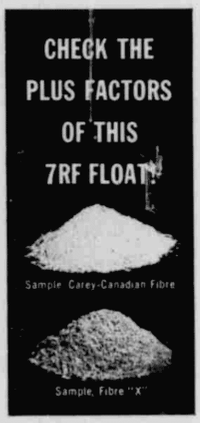
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AUTOMOBILE SALES—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics of motor vehicle factory sales from plants in the United States for FEBRUARY 1965: total 906,017 (passenger cars 774,780; trucks and buses 131,237). The total for February 1964 was 814,124.

CANADIAN SPECIFICATIONS—The Index of Specifications and Standards has been revised to December 31st, 1964, and a free copy can be obtained from the Secretary, Canadian Government Specifications Board, National Research Council, Ottawa, Canada (N.R.C. No. 8322). Items included in these specifications are asbestos-cement products, thermal insulation, and Specification and Drawings for Quebec Standard Asbestos Testing Machine, Model No. 2, 1938 (N.R.C. No. 3470).

CANADIAN ASBESTOS MINES 1962 (formerly The Asbestos Mining Industry)—According to the annual Catalog 26-205 issued by the Dominion Bureau of Statistics, Canadian producers of asbestos shipped 1,215,814 short tons of crude and milled fibres valued at $130,281,966 during 1962. Excluded from these figures were the values of containers which amounted to $4,748,791. The quantity of asbestos increased 3.5% over 1961 and the total value was up one per cent. The asbestos mining industry employed 6,997 persons at the mines and mills, salaries and wages amounted to $36,072,604, and process supplies and containers cost $16,700,356.

MINING INDUSTRY IN QUEBEC, 1962, has been issued and contains a detailed account of mining operations and statistical data for the year 1962 on the Province of Quebec. Copies are available from the Minister of Natural Resources, Quebec, Canada.



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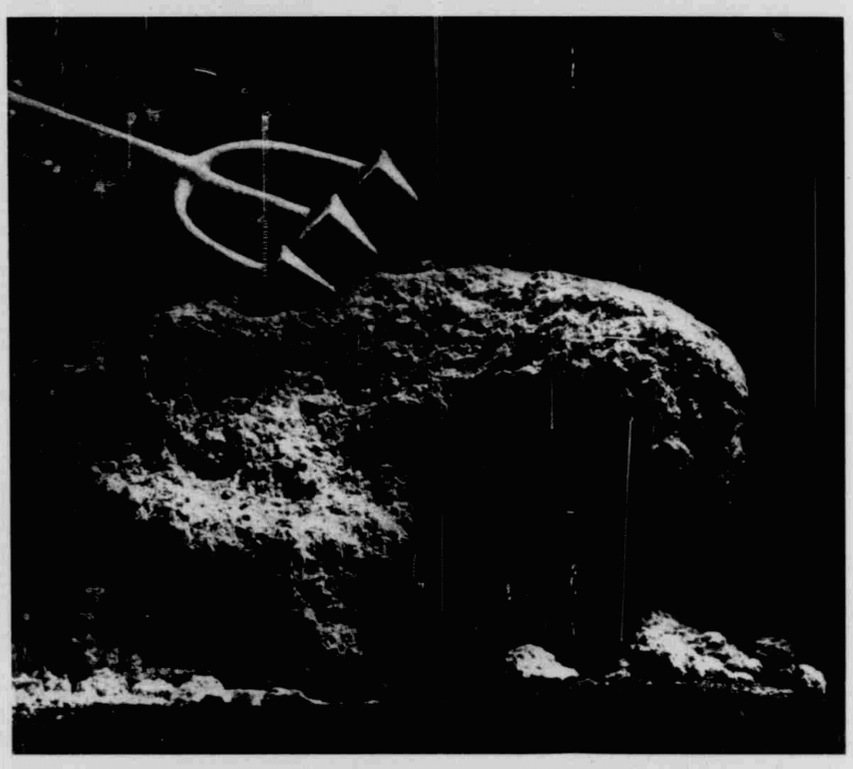
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Los Angeles, Calif.	E. S. Browning Company
Memphis, Tenn.	Thompson-Hayward Chemical Company
Milwaukee, Wisc.	Sprinkmann & Sons
Minneapolis, Minn.	Thompson-Hayward Chemical Company
New Orleans, La.	Thompson-Hayward Chemical Company
Oklahoma City, Okla.	Thompson-Hayward Chemical Company
Philadelphia, Pa.	George A. Rowley & Company, Inc.
Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Seattle, Wash.	Durkin Chemicals, Inc.
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How the devil's asbestos cuts floor tile cost.



High in the Diablo Mountains, the new Johns-Manville Coalinga mill produces a very special grade of asbestos. Diablo, of course, is Spanish for devil. And the unusual asbestos mined in this central California range is proof some devils are really good guys.

Coalinga fibers are short and strong. Which makes them ideally suited to floor tile use. And they are exceptionally bright and clean. Which enables tile manufacturers to cut pigment cost substantially.

Still more proof the Diablos are good guys: this range promises an almost unlimited supply of short, bright, floor-tile-perfect asbestos fiber. Utilizing the most modern production methods, the J-M Coalinga mill assures their usefulness to our friends in the flooring industry.

For asbestos fiber literature, write Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Research and Engineering Center, Manville, N.J.

JM

Johns-Manville

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RAYBESTOS-MANHATTAN — R/M friction materials with high and stable coefficients of friction and excellent durability are playing key roles in the success of a unique differential lockup system which is one of the principal features of the Tractioneer vehicles manufactured by FWD Corporation, Clintonville, Wisconsin. The FWD system, called TractionLock, is a method of locking, whenever a vehicle's driver considers it necesary, the differentials between the wheels on driving axles and the differential in the transfer case which distributes power between axles.

The friction material in the axle lockup case is R/M's *R-2854-B*, a resilient asbestos-cork material which has a dynamic coefficient of friction in oil of 0.10 and a static friction considerably higher. It is supplied to FWD in grooved dises bonded to the metal cores.

The material used in the transfer case lockup is *R-3672-3*, an asbestos-cellulose material with a coefficient of friction, dynamic and static, in oil of .14. It is supplied by R/M, ungrooved and bonded to the steel cores.

The principal features of the R/M materials in this application are their smoothness of operation and their stability — their ability to maintain throughout their service life constant coefficients of friction, for they have both torque-supplying and torque-limiting functions.

THE RUBEROID CO. has completed the purchase of the assets and business of *Sandura Company*, a manufacturer of vinyl sheet floor coverings. The purchase of Sandura, with its outstanding product line, gives Ruberoid an added dimension in the flooring business and the company will now be able to offer a broadened range of flooring specialties of the highest quality and styling. Sandura, founded in 1923, is headquartered at Jenkintown, Pennsylvania, a Philadelphia suburb, and has a 310,000 square-foot plant in Fullerton, Pennsylvania. Ruberoid plans to operate it as a separate division. With this purchase, Ruberoid adds another facility to its nationwide 26-plant network. It also has three plants presently under construction.



Is the combination of chrysotile properties you're looking for RIGHT HERE?

Best way to find out is to tell us what product you make and the properties of the reinforcing fibre most important to you . . . high reinforcing strength, superior wetting characteristics, greater surface area, low grit content. Your test evaluation may find the characteristics of Lake fibre ideally suited to fill your needs.

Lake's annual capacity of 100,000 tons of high grade chrysotile asbestos fibre is processed to meet the special requirements of its customers.

For test sample and catalog, write to Asarco International Corporation, 120 Broadway, New York, N. Y. 10005, distributors for Lake Asbestos of Quebec, Ltd.

LAKE ASBESTOS

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Guildford, England

ENGLAND
Metal Traders, Ltd.
Asbestos Division
London

FRANCE
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Paris

GERMANY
Atlanta Bauer & Co.
Bremen

GREECE
Textile Improvements Ltd.
Guildford, England

HOLLAND
Keyser & MacKay
Amsterdam

INDIA
Metal Distributors, Ltd.
Calcutta

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JAPAN
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A SUBSIDIARY OF AMERICAN SMELTING AND REFINING COMPANY ASARCO

MARKET CONDITIONS

GENERAL BUSINESS.

As this is written it appears the threatened shutdown of the basic steel industry has been averted and negotiations may now continue until September 1 without threat of a work stoppage.

This, of course, is good news for the whole economy and relieves the pressure on steel users for the present. Steel production may now slow down somewhat but, in view of current high consumption and continued efforts of warehouses and large users to build up their stocks, the reduction in production may be very slight.

In view of the present excellent business situation, there appears to be no reason to expect a drop in economic activity from present levels for, at least, the next four months.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during March 1965 totalled 78,842 tons, an increase of 3,484 tons, or approximately 4% over the same period last year. Year to date shipments at 189,023 tons are running 29,940 tons, or roughly 10% below those of last year.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The asbestos textile market continues strong and plants are running at forecast levels. All indications point toward 1965 being at least equal to or exceeding the volume of 1964.

Asbestos Brake Lining. This market at present is excellent and the outlook for the rest of the year is very good.

High Pressure Insulation. Back-log is good for this material and continued improvement is expected during the coming months.

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Asbestos Cement Shingles—Roofing & Siding. With the start of spring weather, volume of orders is on the increase; however, a softness in prices left over from winter months remains. The outlook for the rest of this year is good due to new construction, improved products, and a continuing excellent business condition.

Asbestos Cement Pipes. Activity remains strong and shows signs of accelerating, after normal seasonal influences are removed which tend to slow down construction. Business is expected to be very good for the balance of the year.

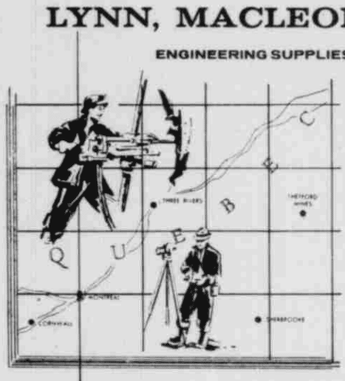
Asbestos Filter Fibre. Supply is still below the market demand for filter grades and Arizona mines continue to step up production. This situation will be eased in the very near future.

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

T&N/NIGERIA—Turner & Newall Limited has announced the formation of a new company, *Turners Asbestos Cement (Kaduna) Limited.* It is registered in Nigeria and jointly controlled by the Government of Northern Nigeria and Turner & Newall Limited. Site works for the construction of an asbestos-cement factory on a 12-acre site at Kaduna have already begun. By the early part of 1966, Northern Nigeria will be self-sufficient not only for asbestos-cement sheets of all kinds but also for sewerage and drainage pipes, which will also be manufactured in the Kaduna factory. The Chairman of the new company will be Kenneth Neve, a Director of T&N. Three of the other five directors are Northern Nigerians. Approximately 300 Nigerians will eventually be employed. The policy of the company will be to train Northern Nigerians to occupy key positions and to play a full role in its development and management.

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SEPT-ILES • OTTAWA • CORNWALL • KINGSTON

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PRODUCTION

Australian Mineral Industry, 1963 Review—This Review has been issued by the Bureau of Mineral Resources, Geology and Geophysics, Canberra City, A.C.T., Australia, and contains a chapter on asbestos which gives the following statistics, in short tons: Production—13,374; Exports—2,629; Imports—36,628; and, Apparent Consumption—47,373.

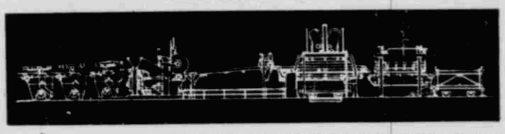
Canada—According to the Dominion Bureau of Statistics, Ottawa, production of asbestos in Canada during JANUARY 1965 amounted to 56,695 tons compared to 77,887 in January 1964.

Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos for FEBRUARY 1965: Production—13,511.57 short tons; valued at £644,508.02.3.



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IMPORTS & EXPORTS

Imports Into U.S.A.

(Published by Bureau of the Census) DECEMBER 1964

Unmanufactured Asbestos: Short Tons

Amosite, Crude, Republic of South Africa	2,005
Crocidolite (Blue), Crude, Rep. of South Africa	4,267
Chrysotile, Crude, Republic of South Africa	2
Rhodesia & Nyasaland	676
Chrysotile Spinning Fibers, Canada	1,263
Mozambique	50
Rhodesia & Nyasaland	25
Chrysotile, Other, Canada	48,585
Italy	2
Rhodesia & Nyasaland	675
United Kingdom	81
Asbestos, Other, Canada	1,810
Finland	66
Rhodesia & Nyasaland	15
United Kingdom	12
	59,534

Valued at $6,013,776

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes & Fittings	4,067,093	$211,978
Asbestos-Cement Articles, Other	612,249	52,975
Asbestos Yarn, Rope, etc. & Other	..	96,983
		$361,936

Advocate Mines earned a net income of $1,526,880 during 1964, its first year of operation. During 309 days of operation, 2,088,184 tons of ore were treated to produce 59,342 tons of asbestos fibre. A third production unit was added and a fourth is planned for this year. At the end of the year, reserves stood at 38,514,000 tons and this can be substantially increased by additional drilling of depth and strike extensions of existing ore-bodies. A system to reclaim fibre from the mill baghouse portion of the tailings has been completed as was the initial phase of the tailings disposal system. During 1964, 29 shipments were made varying from 200 to 4,825 tons. (The Northern Miner)

Exports From Canada

(Published by Dominion Bureau of Statistics) DECEMBER 1964

Unmanufactured Asbestos: Short Tons

	Crude	Milled	Shorts
United States	..	15,071	35,909
United Kingdom	..	8,749	5,095
South America	..	3,171	1,298
Central America & Mexico	..	1,926	548
Europe	49	40,617	24,430
Japan	22	12,618	14,126
Other Countries	..	10,406	2,507
	71	92,558	83,913

Total Unmanufactured Asbestos—176,542 Valued at—$21,854,385

Manufactured Asbestos Goods:

Asbestos Brake Linings Facings	$ 32,664
Asbestos-Cement Building Materials	34,987
Asbestos-Cement Products, Other	42,560
	$ 110,211

Unmanufactured Asbestos: YEAR 1964

	Crude	Milled	Shorts
United States	39	204,902	445,580
United Kingdom	..	50,140	47,877
South America	..	34,726	10,336
Central America & Mexico	..	20,053	3,329
Europe	97	203,743	124,528
Japan	78	40,457	55,537
Other Countries	..	76,494	15,560
	214	630,515	702,747

Total Unmanufactured Asbestos—1,333,476
Valued at—$155,705,953

Manufactured Asbestos Goods:

Asbestos Brake Linings Facings	$ 373,521
Asbestos-Cement Building Materials	1,268,328
Asbestos-Cement Products, Other	329,722
	$ 1,971,571

Asbestos Magazine, 1965, May 1965
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INDUSTRY NEWS

HAPPY BIRTHDAY

John L. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, May 15.
R. M. Bateman, Deputy Chairman & Joint Managing Director, Turner & Newall Limited, Manchester, England, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.
Warren Darrell, Vice President—Manufacturing, Nicolet Industries, Inc., Florham Park, New Jersey, May 18.
John J. Dempsey, President, Armor Products, Inc., New York City, May 18.
Norman L. Barr, Vice President—Marketing, Atlas Asbestos Company, Montreal, Canada, May 19.
Robert A. Schneider, Senior Consulting Engineer, Certain-teed Products Corporation, Riverside, California, May 21.
William J. Van Akin, Senior Vice President—Manufacturing, The Ruberoid Co., New York City, May 23.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.
Louis F. Frazza, Vice President & General Sales Manager, Johns-Manville Corporation, New York City, May 26.
Geo. V. Hamilton, President, Geo. V. Hamilton, Inc., McKees Rocks, Pennsylvania, May 26.
Paul A. Benke, Vice President & General Manager, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, May 27.
A. J. McMullen, President, Garlock Inc., Palmyra, New York, May 27.
Giles Fendall Newton, Honorary President, The Cape Asbestos Company Limited, London, England, May 27.
Edward C. Koch, Vice President, Orangeburg Division, The Flintkote Company, Orangeburg, New York, May 28.
Frederick A. Wagner, Vice President—Finance, National Gypsum Company, Buffalo, New York, May 30.
George A. Gelish, President, Port Asbestos Insulation Company, Brooklyn, New York, June 1.
Eugene W. Odenwaldt, Vice President—Manufacturing, National Gypsum Company, Buffalo, New York, June 2.
Bert I. Bertelsen, President, Drycor Felt Company, Staffordville, Connecticut, June 3.
Dean D. Crandell, Vice President—Research, National Gypsum Company, Buffalo, New York, June 3.
Harold F. X. Plate, Assistant Sales Manager, Carey-Canadian Mines Limited, East Broughton Station, Canada, June 3.
Charles L. Sell, Director, Purchases & Traffic, The Ruberoid Co., New York City, June 4.
Leonard B. Farrell, Director, Industrial & Public Relations, The Ruberoid Co., New York City, June 6.

WOVEN AND NEEDLED
ASBESTOS CEMENT
SHINGLE, PIPE AND
CORRUGATING FELTS
NORDISKAFILT
NORDISKA MASKINFILT AKTIEBOLAGET
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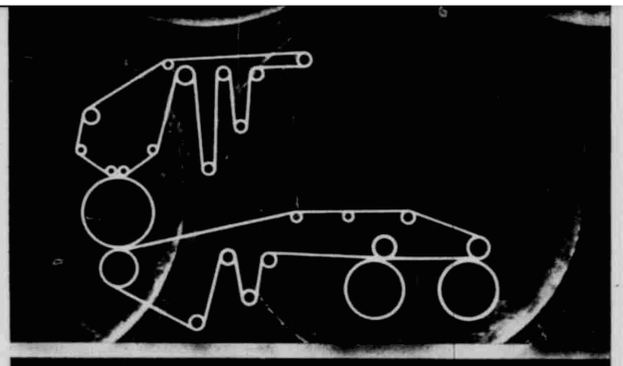
Herbert L. King, retired, former Manager, New Business Department, Johns-Manville Corporation, New York City, June 6.
Walter H. O'Connell, Vice President—Manufacturing, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, June 6.
Joseph N. Yorke, Vice President—Finance, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, June 6.
Manley Alsaker, Vice President, Kelley Asbestos Products Company, Omaha, Nebraska, June 9.
Herbert Morton Ball, Secretary & General Attorney, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Product Pricing Manager, Building Products Division, The Ruberoid Co., New York City, June 9.
Walter Fenn, Director in charge of Contract Department, Atlantic Asbestos Corporation, New York City, June 12.
G. S. Sutcliffe, Joint Managing Director, Turner & Newall Limited, Manchester, England, June 12.
A. H. Bagenstose, Vice President—Sales, Carey-Canadian Mines Limited, East Broughton Station, Canada, June 14.

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

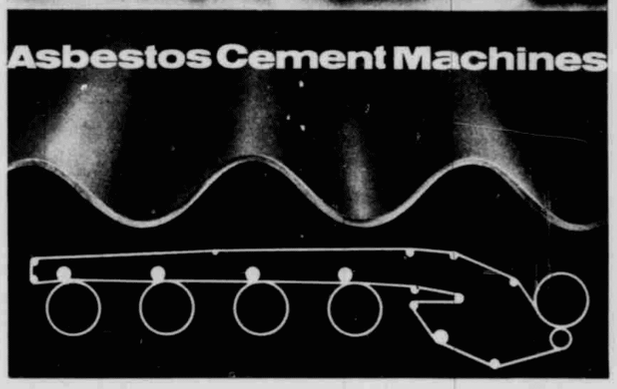
Nigeria—The asbestos-cement pipe plant of Turners Asbestos Cement (Nigeria) Limited, a Turner & Newall company in Enugu, in the Eastern Region of Nigeria, is now in production. The plant was established for the manufacture of asbestos-cement pressure pipes for water supply and for sewerage and drainage. Installed at a cost of £750,000, it has a present annual capacity of 18,000 tons.

New Zealand—An agreement has been finalized for a joint venture between Mines Exploration (Pty) Limited (a subsidiary of Broken Hill South Limited) and Cobb Minerals Limited (a subsidiary of Lime and Marble Limited) to explore the potential of asbestos deposits in the Upper Takaka Valley, Golden Bay County, Nelson, New Zealand. The aim of the asbestos exploration is to prove up an orebody with reserves sufficient to warrant a modern mill for supply to the local market and for export.

Lake Asbestos of Quebec Limited will begin extensive work at Coleraine, Quebec, Canada, in June of this year to enlarge its open-pit mine during the next four or five years. The project will cost several million dollars and will prolong the life of the mine by approximately ten years. Lake Asbestos is planning no immediate increase in production of asbestos fibre. Six-million cubic yards of earth and rock must be removed in order to uncover new mineral layers. Coleraine is located 75 miles southwest of Quebec City.



Asbestos Cement Machines



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John Ozurovich, founder of **Atlantic Asbestos Corporation,** passed away on April 28th, 1965, at Venice, Florida, at the age of 79. He was well known in manufacturing and contracting circles for the past fifty years and was accredited to have built the first asbestos paper mill in New York City.

Richard B. Behler has been named Industrial Sales District Manager of the Western District of **National Gypsum Company** and will supervise the company's industrial sales for the multi-state district from headquarters in Cleveland, Ohio.

John P. Hayes, Central Sales Manager for **National Gypsum Company,** has been relocated to the headquarters in Buffalo, New York, from Chicago, Illinois. He was appointed to his present position in September 1964 and directs the activities of five sales divisions and twenty sales districts.

John P. Andrews has been appointed Sales Manager for the Cleveland District of **National Gypsum Company** and will be in charge of the building products company's sales in the Cleveland area. He has been assistant district manager in Columbus, Ohio, since 1959.

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RAW ASBESTOS

ALL GRADES—ALL TYPES

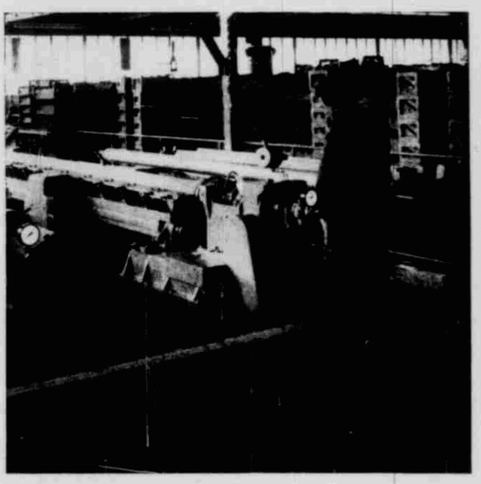
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George C. Schnurr has been appointed National Sales Manager, Friction Materials, of **Canadian Johns-Manville Company Limited.** He was formerly product manager, friction materials. (The Northern Miner)

James D. Harden has been appointed Sales Engineer for the Celite Division of **Johns-Manville Corporation.** He has had a wide variety of experience as a chemist and in the manufacture of paper, liquid detergents and essential oils.

Stephen R. Mates has been appointed Assistant to the Sales Manager of the Celite Division of **Johns-Manville Corporation.** He has been with J-M since 1935 in a variety of administrative and managerial positions in Texas, Georgia, Toronto, and New York.

S. C. Black has been appointed to the Board of Directors, effective March 31st, 1965, of **Kismet Limited** of Fenlake Works, Bedford, England. Mr. Black's official title will be Technical Director. He has been with Kismet since 1963 and was formerly Technical Manager. Kismet Limited is a member of the Cape Asbestos Group of companies.

Nicolet—The appointment of two Commercial Managers has been announced by Dr. Roger W. Sanftner, Vice President—Development, Nicolet Industries, Inc. **Robert C. Basil** has been appointed Manager, Commercial Research. He joined Nicolet in July 1963 as a Market Research Analyst. **John R. McLaughlin** has been named Manager, Commercial Development. He joined the company in September 1963 as a Commercial Development representative. Both Mr. Basil and Mr. McLaughlin will be headquartered at Nicolet's Florham Park, New Jersey, executive offices.

„Tropag"

Hamburg —:— Ballindamm 6

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automatically manufactured by *machinery* and plants based on the *ELASTIC AND UNIFORM HIGH PRESSURE process*

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ASBESTOS PRICES

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton of 2,000 lbs. f.o.b. Mine

(As of January 1, 1965) Canadian Currency

Group No. 1 (Crude No. 1)	$ ..	$1,410.00
Group No. 2 (Crude No. 2, Run of the Mine Crude, Sundry Crudes)	640.00 to	875.00
Group No. 3 (Spinning Fibre)	345.00 to	565.00
Group No. 4 (Shingle Fibre)	190.00 to	320.00
Group No. 5 (Paper Fibre)	115.00 to	156.00
Group No. 6 (Waste, Stucco or Plaster)	..	95.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.

(As of January 1, 1965) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00
AY grade (shingle fibre—Canadian Group 5)	120.00

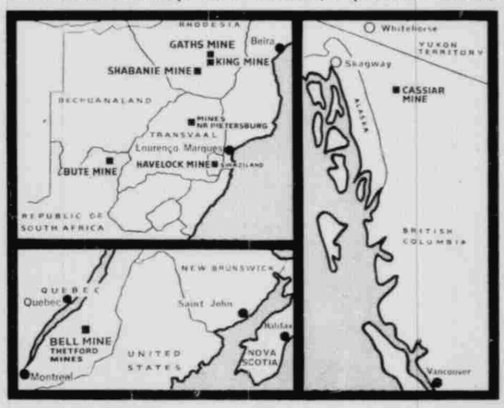
VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(As of January 10, 1965) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 370.00
Group No. 4 (Shingle Fibre)	176.00 to	296.00
Group No. 5 (Paper Fibre)	121.00 to	144.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	88.00
Group No. 7 (Shorts & Floats)	40.50 to	75.00

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■ Mines ● Ports of shipment

Turners Asbestos Fibres Ltd

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Cables: VULBESTON, MANCHESTER Telephone: CENtral 0334
Telex: 66560 *A Turner & Newall company*

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U. S. Rubber Company's Textile Division has announced two key appointments, designed to strengthen an expanded marketing effort. **W. Lindsay Wylie** was named Marketing Manager for textile fibers, a newly-created post, and will be in charge of marketing activities for all of the division's fibers. **Dr. Allan W. Stoner** was appointed Product Sales Manager for elastic fibers.

Miss Ruth Schandorff has been named Merchandising Coordinator for the Textile Division of **United States Rubber Company.** Miss Schandorff will be in charge of all phases of retail promotions and will report to Clarence H. Sigler, Director of Marketing. She will continue to make her headquarters at the company's general office in New York City.

Stewart N. Smith has been appointed Marketing Manager of general textiles for the Textile Division of **United States Rubber Co.** Mr. Smith's office will be in the division's administrative center in Winnsboro, South Carolina, and he will be responsible for product and marketing planning for knitting and tufting yarns, tire cords and industrial textiles.

Louis M. Boulware has been appointed Production Manager for the Textile Division of **United States Rubber Company,** effective May 1st, 1965, and will be located in the Textile Administrative Office in Winnsboro, South Carolina. He succeeds **R. C. Harrington** who has accepted an assignment with U. S. Rubber International Company, a division of U. S. Rubber.

Dr. Thomas H. Newby has been appointed Commercial Development Manager for the Textile Division of **United States Rubber Company**. He will be responsible for licenses, patents, market research, forward planning and acquisition studies for the division, and will make his headquarters in the division's administrative center in Winnsboro, South Carolina.

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American Brake Shoe Annual Report 1964—In 1964, American Brake Shoe Company reached new all-time records in shipments and net earnings while achieving further growth and improvement in all four major product groups: friction products, hydraulic equipment, railroad products; and, castings and forgings. Consolidated shipments in 1964 amounted to $241,478,130 compared with $214,668,928 in 1963. Net earnings were $9,762,039 compared with $7,440,744.

United Asbestos Annual Report 1964—According to the 1964 annual report of United Asbestos Corporation Limited and its wholly-owned subsidiary, Detinu Holdings Limited, net income for the year amounted to $203,394 which compared with the 1963 figure of $107,997.

U.A.M. 28th Annual Report—According to the reports and accounts of The Universal Asbestos Manufacturing Company Limited for the period September 30th, 1963, to September 27th, 1964, profit of the group after taxation was £308,956 compared with £208,903 during the previous 52 week period.

H. K. Porter Annual Report 1964—Net sales in 1964 for H. K. Porter Company, Inc. were $263,045,895 compared with $251,687,132 in 1963. Consolidated net income for 1964 was $5,134,434 against 1963 net income of $4,014,498.

John W. Burton was elected Vice-President and General Manager of the Electrical Division of **H. K. Porter Company, Inc.** In his new position, Mr. Burton will be responsible for the operation of seven Electrical Division plants as well as a nationwide sales and distributor organization. He joined Porter in 1952.

George C. Williams was appointed General Manager of the Hardware and Industrial Products Division of **H. K. Porter Company, Inc.** He was formerly Acting General Manager of the division and prior to joining Porter in January 1964, was associated with Robert. Heller Associates, Cleveland management consulting firm.

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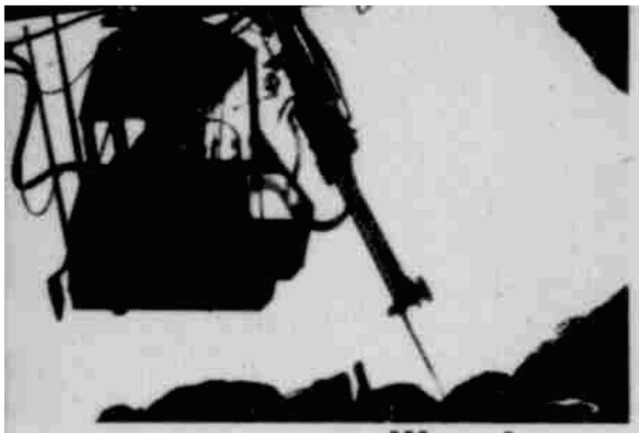
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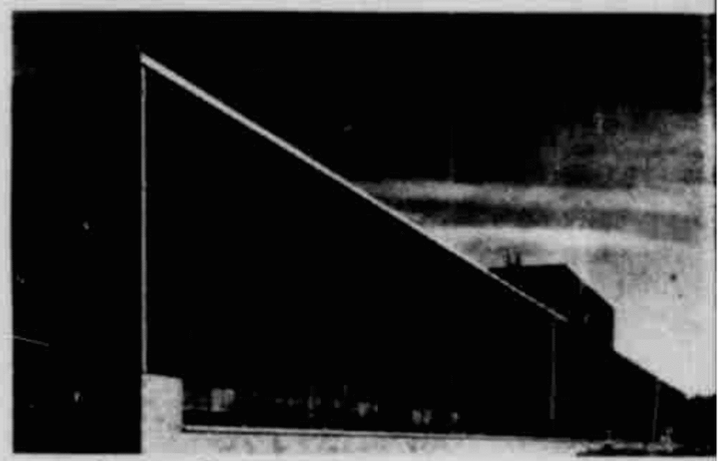
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