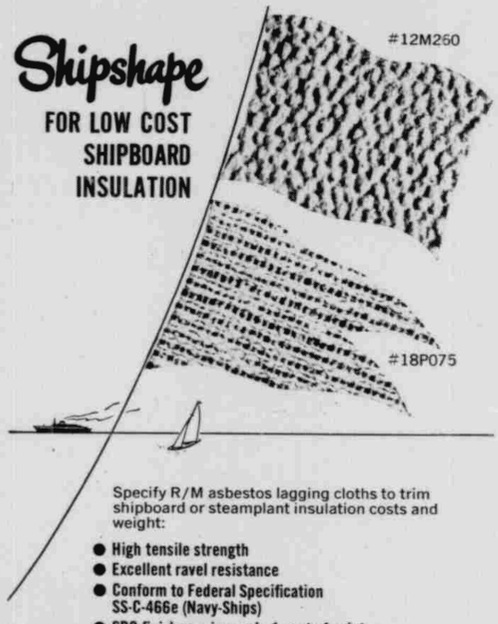
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The Growing Application of Asbestos in Industry

By: W. E. Sinclair, M.I.M.M., Consulting Engineer to Putten's Asbestos Corp.

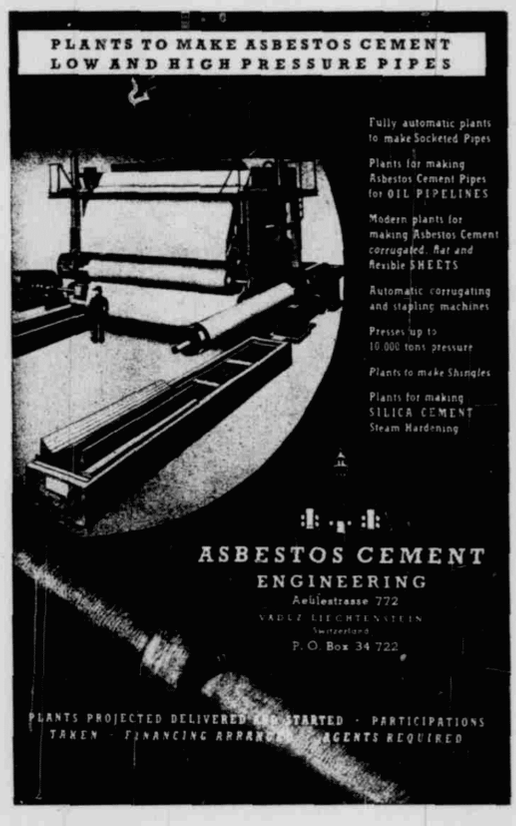
Despite the modern introduction of various types of materials of fibrous structure such as, rock wool, fiberglass and nylon fibres, asbestos more than holds its own in a world where industry increases in scope by natural organic development.

This is clearly borne out by the firm expansion of the world's output of all varieties of asbestos which, in the past five years, has risen from a little over two-million tons to over three-million tons. Present indications show that this rate is likely to have been increased by a further half-million tons in 1964. These figures are based on the fact that Canada and the U.S.S.R. will each produce over one-million tons, while South Africa and Rhodesia will produce about 250,000 tons and 200,000 tons respectively. The U.S.A., Australia, Europe and other smaller producers will together make up an estimated 500,000 tons.

It is interesting to note from these figures that while the chrysotile output has been substantially maintained, that of the amphibole varieties (mainly amosite and crocidolite), will show a marked increased production, having risen in the past decade from 50,000 tons to nearly 200,000 tons annually.

There is doubtless an increasing use being found for asbestos as a result of research by many manufacturers, as is evident by the growing demand of consumers. This may be due to new or modified fabricating processes, but also, in consequence of the development of new fields of application. Such a trend must inspire every confidence in the asbestos industry, more especially when one considers the tremendous development and use of artificial fibres in industry today. As it happens there is a reciprocal benefit gained by the blending of such organic fibres with asbestos in some spheres, as for instance, in the textile and plastic industries.

On the other hand, there is no doubt a trend for these fibres to displace asbestos when the question of economics and availability enter into the fabrication of certain products.



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In view of this competitive state of affairs, it is obvious that it behooves producers to study with utmost care the treatment of their asbestos output. Much has been done in this respect in the classification and standardization of definite chrysotile grades in Canada, but much remains to be done in other chrysotile fields. Similarly, the classification of the amphibole varieties into uniform standard grades is long overdue.

It is to the mutual benefit and advantage of both manufacturers and producers alike to be in a position to know exactly the grade of fibre that is most suitable for use in the many different spheres of utilization.

Actually, it is surprising how little interest is shown by some producers as to the importance of the function of fibre classification necessary to satisfy manufacturers in their many different requirements, and particularly when selected fibre grades are an essential constituent.

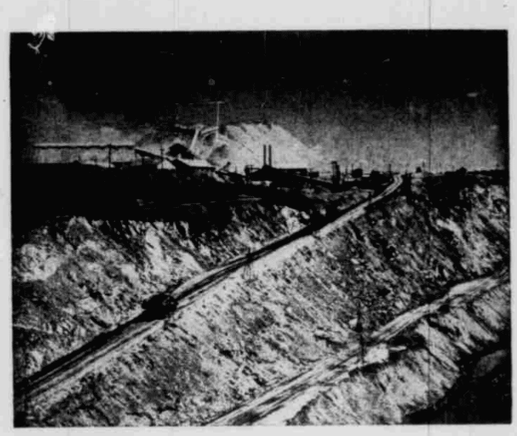
Lack of interest (or more ignorance) by the man in the street as to the end use of asbestos is surely a regrettable handicap as regards the commercial aspect of asbestos products. This is bad enough, but when those actually employed in the Industry lack knowledge in this field of application and utilization, then it is time manufacturers and producers joined forces in bridging the gap of uncertainty in grading and utilization.

In these circumstances, it would seem to be of interest and perhaps of value to consider briefly the principal uses of the different asbestos varieties in industry and more particularly the newer applications that give promise of greater demand for selected grades in the fabrication of specialized products.

As an example, how many of us would associate asbestos fibres with medical surgery? And yet, in the matter of heart surgery in artery diseases in a certain operation, in which the organ is prepared for a graft, one of the final procedures consists of "sprinkling the surface of the heart with powdered asbestos to create inflammation which will help the muscle to grow new blood vessels" (The Risk Takers, by Hugh McLeave).

Unique as this usage of asbestos may be, it cannot make much impression on the world output; indeed, rather less

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fibre would be used than the small quantity now utilized in making filters in certain brands of cigarettes. Although, here again, the common theory that excessive smoking is the likely cause of lung cancer, might result in an increasing adoption of such filters in all cigarettes.

Another unusual small usage of asbestos fibres, having high tensile strength, is in the reinforcement of certain ductile metals such as copper and lead. Used in this way, the asbestos imparts useful mechanical strength to the metal and yet allows a certain degree of flexibility.

It might quite safely be said that in many applications asbestos fibres play an important part as a reinforcing medium. As is well known, its outstanding use in this sphere is its reinforcement of cement products, where it is shown in practice that the fibres in the cement mixture are analogous to steel reinforcement in concrete. Incidentally, the utilization of asbestos in the fabrication of asbestos cement products is responsible for nearly 70 per cent of the output of crocidolite and amosite asbestos today. This is because these varieties are accepted as being superior to any other and more especially in the manufacture of non-corrosive pipes and other products. The extreme strength of these fibres and the fact that they are harsh but flexible, would account for their exceptional value in this field. In addition, they enjoy good filterability, another property of specific value in the wet mix process of asbestos cement fabrication.

The quality and value of asbestos as a reinforcing agent is not confined to the making of asbestos cement products but in recent years has found a growing use in reinforced rubber products and in many branches in the plastic industry, mainly in the fabrication of moulded plasties. Besides these important uses in this sphere, asbestos is proving valuable as a filler in plastic cement and dry-wall material.

The greatest use of both chrysotile and the amphibole varieties of amosite and crocidolite is in the building and constructional field, where a great tonnage is absorbed, mostly in the form of asbestos cement. The valuable properties of this commodity, such as its resistance to heat, weather, fire, corrosion and vermin, make the products

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practically everlasting and, at the same time, impart natural insulation in buildings against sound, vibration, electricity and heat.

Spraying asbestos fibres directly on to a structure or on fabric is becoming common practice to ensure soundproof rooms. Certain applications are employed to combat condensation and to provide thermal insulation. Spraying, besides being a means of fireproofing the structure also corrects acoustic effects and reduces noise.

It is well known within the industry that the textile branch commands an extensive part in which asbestos (mainly chrysotile) woven products are utilized in countless industries and in the fabrication of numerous all-asbestos products. Strangely enough, however, like so many end uses in industry, these uses are unknown to many because asbestos loses its identity even though it constitutes an important component in the various products in which it is used.

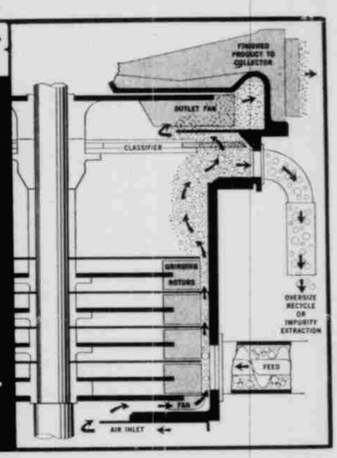
A relatively new development is the use of asbestos in road making. Experiments and tests have shown that the inclusion of from 2 to 3 per cent of short fibre asbestos with asphalt serves as a valuable stabilizing mixture. The result of this application is a tough surface which resists cracking, due to weathering and wear, and besides, has a high resiliency and impact resistance. The durability and low maintenance costs will be an important factor in the case of both roads and airfield surfaces considering the growing increase in road and air traffic.

Further consideration of the end uses of asbestos will have to be the subject of another article at some later date.

ANTHONY J. SCANLAN, Chairman of American Asbestos Textile Corporation, Norristown, Pennsylvania, died February 13th, 1965. A resident of Philadelphia for many years, "Ank", as he was affectionately known, was a nationally prominent football coach a generation ago. Born November 21, 1901, Mr. Scanlan had been President of American Asbestos Textile Corporation for many years until he took over the Chairmanship of the Company in 1963. Well known in the Industry, he has served as Vice President of the Asbestos Textile Institute.

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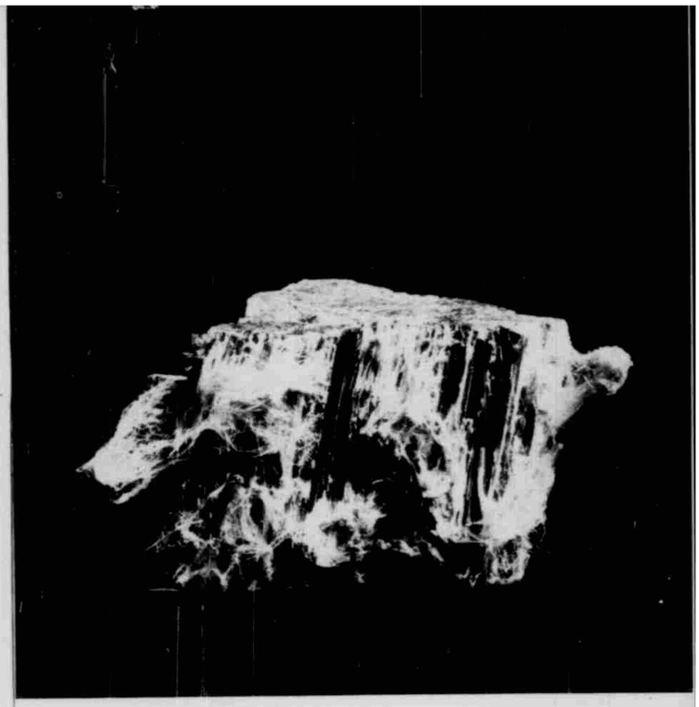
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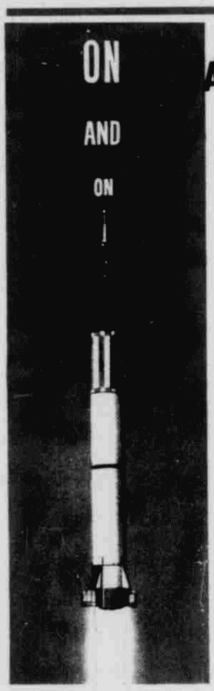
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Quebec Asbestos Mining Association

While fostering cooperation between members of the Quebec Asbestos Mining Association and as well between itself and other associations, public bodies, governments, etc., the QAMA has continued in 1964 to study and offer solutions to problems common to the industry or pertaining to the Association as such, having always in view a greater contribution of the Quebec and Canadian Asbestos Industry to the economy of the country. At the regular general meetings of the Association every other month, the leaders of the Industry cooperate in maintaining the reputation and prestige of the Industry in the face of increasing competition from other countries, by supervising performance and ascertaining high standards of quality, conformity and service. The approach to this all important objective of the Association is more specifically achieved by its active standing committees.

Under the chairmanship of G. F. Jenkins, Vice-President of Asbestos Corporation Limited, the Technical Committee has been working on the development and standardization of test method procedures for asbestos fibre. To this effect, an initial basic research program on the fundamental properties of asbestos for the purpose of proposing new fibre testing methods was completed in 1964 under a professorship and fellowship arrangement with the Nova Scotia Technical College and the assistance of the Association's laboratory facilities at the University of Sherbrooke.

As one may know, since 1961 the QAMA has operated, within the Faculty of Sciences of the University of Sherbrooke, a fully equipped laboratory, staffed by the University. The laboratory is primarily a testing facility, providing impartial testing to assure the quality and uniformity of the large number of fibre grades produced throughout the Industry. The review of actual test procedures and apparatus, and the development of new testing techniques for a more thorough evaluation of characteristics of asbestos fibres constitute the main assignment of this laboratory. While providing an essential service to Industry; the laboratory is designed to train students in Quality Control of asbestos fibre production.



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The Sherbrooke laboratory comes under the immediate responsibility of the Uniform Classification and Grading Committee, headed by F. P. Hodgson, Manager of Flintkote Mines Limited. Initially, the "raison d'etre" of the Association, this committee has continued in 1964 the general supervising of the classification and grading by the various producers in view of safeguarding high quality standards. The committee has also undertaken research into complementary tests to the Quebec Standard Test in an effort to provide a more advanced classification system for chrysotile asbestos. In October a brief was submitted to the Department of Mines and Technical Surveys in Ottawa requesting additional assistance on basic research into certain properties of asbestos fibre.

Concurrent with the technical program of the Association, the Industrial Relations Committee under the leadership of J. O. Eby, Vice-President and Mine Manager of Canadian Johns-Manville Company Limited, concentrated its efforts on the human aspects of the Industry, be they, working conditions, the health of the workers or their welfare in general. This was effected through a survey of personnel policies and practices in the Industry as a whole, closer liaison with the Quebec Workmen's Compensation Commission, a joint brief with a number of other associations on the new Quebec Labor Code (Bill No. 54), a survey of wages and practices in Canadian Industry, attendance to symposiums on the biological effects of asbestos, etc.

Two other committees have important assignments.

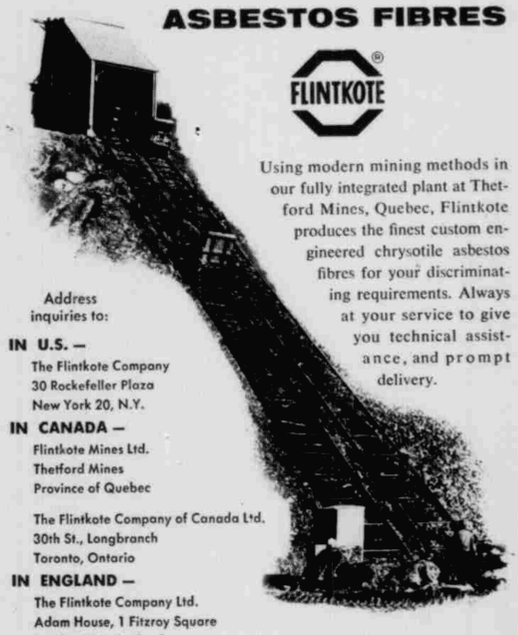
The traffic Committee, headed by I. C. Campbell, Vice-President and Secretary of Asbestos Corporation Limited, deals with questions regarding the transportation of asbestos fibre abroad. To this end, agreements are negotiated with different conferences of steamship companies.

The Legislation and Taxation Committee, having as chairman, A. L. Penhale, President and Managing Director of Asbestos Corporation Limited, is the watchdog of the Association in legislative and fiscal matters. During 1964, representations were made to both Federal and Provincial Governments through joint briefs with other mining associations to the Royal Commission on Taxation.

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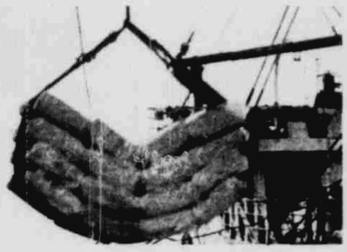
position to be held in Montreal, Canada, a composite brochure of all asbestos products manufactured and available in Canada was prepared for distribution by the Expo 1967 Corporation to planners and builders of pavilions. It is to be released shortly.

In a cooperative effort with the Asbestos Textile Institute, the latter's informative exhibit on asbestos and its uses was displayed at the Redpath Museum of McGill University in Montreal for several months. It turned out to be one of the most popular attractions in the Museum.

In general, the Quebec Asbestos Mining companies have all enjoyed a successful year. After having shown a moderate pattern of growth for a number of years, shipments of asbestos fibre in 1964 are expected to be up 10% from the previous year. Although in 1964 the Industry was not yet at full capacity, it was towards the end of the year operating at its highest level in several years. In spite of the emergence of the U.S.S.R. as the world's largest single producer of asbestos fibre, a development which delegates of QAMA witnessed during a visit of Russian asbestos mines, it can be rightly stated that the Quebec Asbestos Mining Industry is enjoying a favorable rate of growth.

ASBESTOS PELLETS—Selling millions of tons of fibre every year Quebec's asbestos mines are big business and they have big customers. But not every manufacturer who buys asbestos orders his fiber by the hundreds or thousands of tons. One of the industry's smallest customers must be the London, England, firm of R. A. Vanner Limited. Manufacturing a specialized product from Group 7 fibre, the company imports some five tons of Quebec asbestos a year. Every day the Vanner plant produces thousands of aspirin-size pellets from the washed and compressed fibre. The pellets are sold to British manufacturers of thermos bottles. The pellets act as a cushion between the two vacuumed thicknesses of glass inside the thermos bottles. Without the asbestos pellets and their unique ability to control the transfer of heat, the layers of glass could shatter whenever steaming hot or icy liquids are poured into the thermos bottles.

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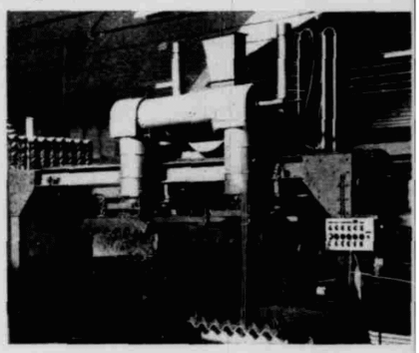
BUILDING—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., JANUARY 1965 contract value measuring future construction work totaled $3,127,351,000, 7% off the pace of the January 1964 rate. Construction contract activity has been strong, but also quite erratic over the past six months or so. During this period the Dodge Index has been as low as 121 and as high as 154, although neither of these extreme readings could be called representative of the current trend of new construction volume. More significant is the fact that at its present 137, the Index for the first month of 1965 was exactly equal to the average level of last year's record second half. A breakdown of the total January 1965 figure, with percentage changes from January 1964, is as follows: non-residential building, $1,154,654,000, no percentage change; residential building, $1,273,112,000, down 7%; and, non-building construction, $699,585,000, down 14%.

ROBERT JAMES PAINTER, Executive Secretary Emeritus of the American Society for Testing and Materials, died suddenly February 23rd, 1965, at the age of 60 years. In addition to his membership in ASTM, Mr. Painter was for many years an active member of the Philadelphia Rotary Club and held membership in numerous technical and engineering groups.

NFPA FIRE JOURNAL, to be issued six times a year, is the new magazine of the National Fire Protection Association, and succeeds the NFPA Quarterly. The 88-page January issue of the periodical contains many articles of general and special interest to all concerned with fire protection and prevention matters. This new magazine is available only through membership in the association.

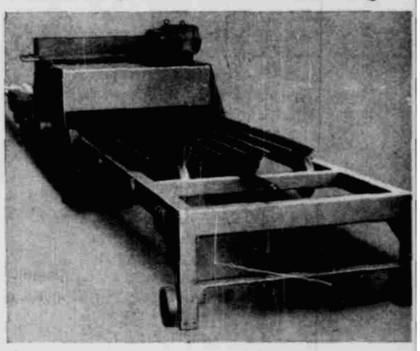
NFPA—The 69th Annual Meeting of the National Fire Protection Association will be held at the Mayflower Hotel, Washington, D.C., from May 17th through 21st, 1965.

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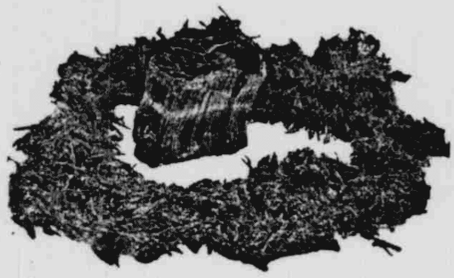
NICOLET INDUSTRIES, INC., has recently put into use at its plant in Ambler, Pennsylvania, a giant 6,900-ton monolithic board-producing press which plays an integral part in the factory's manufacture of asbestos-cement products. One of the few such presses being used in the industry, this machine makes the 4x8-foot asbestos-cement sheets, or blanks, from which Nicolet's Monobestos, Resistal, KolorMate and Ebonized Asbestos products are formed. The huge press exerts pressure up to 2,800 psi, compressing a mixture of asbestos, cement, selected fillers and water. Each blank is produced individually from carefully measured, prepared and cleaned mixtures of ingredients to give uniform texture and physical properties. The mixture is then automatically discharged into the diebox where it is compressed by the 50-ton moving platen. Careful adjustment is needed to assure that just the right amount of pressure is applied to the mixture to produce the blank of desired density.

The huge press, which weighs some 375 tons, does not make the finished Nicolet product; it produces the rough sheet that subsequently undergoes various curing, sanding and impregnating processes, depending on the product being made. But by the texture and density of the blanks it does turn out, the monolithic press greatly dictates the quality of the end product.

At present, the press is running 24 hours a day and is capable of producing asbestos-cement sheets up to 4 inches in thickness.

KOLORMATE—Nicolet Industries, Inc., Florham Park, New Jersey, manufacturer of a wide variety of asbestos products, is offering a new catalog describing its KolorMate asbestos-cement sheet. The handsomely-illustrated brochure, available to laboratory equipment manufacturers, designers, hospital and school architects, contains data on KolorMate's physical properties and chemical resistance characteristics. Also included are photographs showing various KolorMate applications in laboratory furniture, building interiors and as architectural panels.

Australian Blue Asbestos Pty. Limited



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

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In Australia, address inquiries to:—
AUSTRALIAN BLUE ASBESTOS PTY. LTD.
89 St. George's Terrace, Perth,
Western Australia.

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ASBESTOS-ASPHALT PAVING—The use of asbestos-asphalt paving mixes has shown a continued rise during 1964, a trend that began in 1960 when increased interest in this development was first reported. According to figures released by *Johns-Manville Corporation* at the annual meeting of the National Bituminous Concrete Association in Miami, Florida, placement of asphalt hot mix containing asbestos fiber has gone from 12,000 square yards in 1960 to a new high of 3,480,000 square yards of paving during 1964. During 1964 alone, a total of 2,900 tons of asbestos fiber was utilized in asphalt hot mix, an increase of almost 60 per cent over 1963 and three times the 740 tons used in 1962. Applications in paving have turned strongly toward use as a maintenance item, such as thin overlays to replace seal coats or to renew existing concrete or asphalt pavements. In addition, the use of asbestos fiber in curbing mixes has also shown a notable increase in every area of the country, with particular emphasis in the North-East where it is now included in the specifications for three states, with a fourth anticipated shortly.

Research on mix design and in-service pavement cores is accomplished on a continuing basis at the Research & Engineering Center of Johns-Manville. One of the primary problems is to establish test procedures which simulate traffice on the varied materials encountered in the United States.

CAREYTEMP INSULATIONS — Visitors to Booth No. 557 at this year's Plant Engineering and Maintenance Show will see and hear about new Dual Careytemp and Careytemp 2000 insulations developed and manufactured by The Philip Carey Manufacturing Company. In addition to these two new insulations, the entire Careytemp line will be on display as well as appropriate Philip Carey roofing, siding and coating products for industrial applications. Literature on Careytemp and the complete line of Philip Carey industrial insulations featured at this show will also be displayed.

CHECK THE PLUS FACTORS OF THIS 7RF FLOAT!



Sample Carey-Canadian Fibre



Sample, Fibre "X"

1. UNUSUAL WHITENESS
2. LOW IRON CONTENT
3. GRIT-FREE
4. UNIFORM FIBRE LENGTH
5. HIGH FIBRE VALUE
(90% on 100 mesh)

Carey-Canadian's 7RF-9, available in commercial quantities, has proved to be of extreme interest to resin compounders, joint cement manufacturers and others seeking an asbestos float with the above properties.

Samples and complete information on Carey-Canadian 7RF-9 floats may be obtained from the warehouse locations listed below or by writing to Carey-Canadian Mines, Ltd., P.O. Box 15095, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada.

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Cleveland, Ohio	Donald McKay Smith, Inc.
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Pittsburgh, Pa.	McCann-Shields Paint Company
St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
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Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

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Gold Bond Asbestos Fibres: COMPLETE OVERSEAS COVERAGE BY ESTABLISHED REPRESENTATION.....



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NORWAY
Mr. Knut Moerch
c/o A/S Polyvog
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Lisboa 2

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Pablo Aranda 38
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Stockholm 5

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Melbourne
The British Metal Corp. (Australia) Pty. Ltd.
Pearl Assurance House
143-151 Queen Street
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Sao Paulo

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Tennant Importacao E. Exportacao Ltda.
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Minerals & Industrial Materials Section
General Merchandise Dept.
Tokyo

PAKISTAN
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Elsasserstrasse 229
Basel

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Queen Street Place
London EC-4

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Caracas

WEST GERMANY
F. W. Hempel & Co.
Am. Wall 127
Postfach 1350
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Gold Bond
INDUSTRIAL PRODUCTS

asbestos fibres

For further information, write National Asbestos Mines Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company.)

"ASBESTOS" — March 1965

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asbestosclaims.law/library/12575/14

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 DECEMBER 1964—total 1,031,374, (passenger cars 884,330 and trucks and buses 147,044), total for December 1963 was 881,825; YEAR 1964—total 9,292,275 (passenger cars 7,751,882 and trucks and buses 1,540,453), total for Year 1963 was 9,100,436.

MINERAL FIBER PRODUCTS BUREAU has prepared a consumer oriented pamphlet entitled "*This Home Will Look As Beautiful and New in Years to Come*", which describes the beauty and low maintenance characteristics of the new mineral fiber siding products, and illustrates qualities at once apparent to the eye as well as those which are built-in to achieve long-lasting performance. Mineral fiber, the new name for products made of asbestos fiber and cement, was adopted in recognition of these qualities which have in fact made mineral fiber a new product.

The pamphlet is available in quantities to the trade through member companies of the Bureau. Single copies may be obtained by sending a stamped, self-addressed envelope to the Bureau at 509 Madison Avenue, New York, New York 10022.

NICOLET SALES MEETING—More than 35 sales and marketing men attended the recent end-of-the-year sales meeting held by Nicolet Industries, Inc. in the Philadelphia area. Nicolet, with headquarters at Florham Park, New Jersey, and plants in Norristown and Ambler, Pennsylvania, Hamilton, Ohio, and Union, Illinois, manufactures a wide variety of standard and special asbestos products. Those attending the meeting included officers of Nicolet, its representatives and salesmen throughout the country, and officials of fabricating and distribution companies. The meeting outlined Nicolet's plans for 1965, with special emphasis on new and extraordinary developments to be announced during the year.



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.

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Textile Improvements Ltd.
Guildford, England

ASARCO INTERNATIONAL CORPORATION
A SUBSIDIARY OF AMERICAN SMELTING AND REFINING COMPANY ASARCO

LAKE ASBESTOS

J-M CHEMTITE VALVE BODIES—The new Hills-McCanna Diaphragm Valves with Johns-Manville Chemtite (TM) Bodies make possible lower costs in valves capable of handling highly corrosive fluids. The new valves are designed to control flow of all concentrations of hydrochloric acid and chlorinated solvents, 0-70% sulphuric acids and many other highly corrosive chemicals at temperatures between minus 50F and plus 300F and pressures to 100 psig. The Chemtite Valve Bodies are fabricated from asbestos-reinforced epoxy or phenolic resin. The outstanding heat, strength and corrosion resistance of asbestos fibers are combined with the strength and corrosion resistance of epoxy and phenolic resin in two separate systems — Chemtite Epoxy and Chemtite Phenolic. Each combination of materials is physically and chemically linked together by a powerful compacting process. Result is a dense, homogeneous valve body that shows no erosion, corrosion effects with repeated valve closures.

BAUER LIQUID CYCLONES—Operating efficiency of heat exchangers can be improved and their maintenance and downtime greatly reduced when the cooling water is circulated through liquid cyclones manufactured by The Bauer Bros. Co., Springfield, Ohio, and Brantford, Ontario, Canada. These liquid cyclones operate at low pressure drops and efficiently remove sand, silt, dirt, gravel, grit, sea shells, scale and similar suspended organic and inorganic foreign matter which could clog openings or damage the equipment if allowed to accumulate in the system. Bauer cyclones have proved their effectiveness and protective value in several industrial installations. These units are also recommended to clean water used for boilers and various processing operations, as well as for reclaiming suspended particles from process solutions.

DESIGN ENGINEERING SHOW & CONFERENCE will be held May 17th through 20th, 1965, in New York City. The show will take place at the New York Coliseum and the conference will be held at the Americana Hotel. The theme will be "Broadening Horizons and the Design Engineer".

ASBESTOS FIBRE

OF ALL TYPES

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(Private Branch Exchange)	London

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues quite good. Automobile and steel production continue at high levels and these factors are sufficient to influence the whole economic situation. With the outcome of the Steelworkers' election of a President still in doubt, there are pressures from many sources to push the strike deadline beyond May 1. This would seem to be a statesmanlike move and could, if made, avert a very serious threat to a continuation of the current business boom. Meanwhile, large users and warehouses continue building their steel inventories although high consumption has kept inventories lower than they were prior to the last steel strike. Barring a long strike in this basic industry, the economy should continue in good health well into the latter part of this year.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during January 1965 totalled 50,107 tons, a reduction of 19,663 tons or 28% over the same period last year. Reduced fibre shipments are the result of high inventories carried by most customers at year-end prior to the price increase effective January 1st, 1965. This condition will undoubtedly prevail during the first quarter of this year.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. As final production figures for 1964 become available, it is evident that the Asbestos Textile Industry experienced one of its best years of the decade. Currently, plants report they are running well with a good order position. Manufacturers look for business in 1965 to continue at the present high level.

Asbestos Brake Lining. The market for this material continues good and this condition should remain during the coming months.

Asbestos Paper. Volume of business for this product is good and no change is expected for the next few months.

Asbestos Millboard. Demand for this product has slowed down somewhat; however, an improvement of this situation is hoped for in the near future.

High Pressure Insulation. Volume of business for this material is very high and business is expected to keep up at an even better pace during 1965. Prices are holding very firm and there are indications of further increases.

Asbestos Cement Shingles—Roofing & Siding. Shipments are slow because of weather conditions and a certain lack of new homes ready for roofing and siding. Increased sales and promotion efforts by the entire industry, plus product improvements, new looks, etc., should result in increased demand and 1965 should show an appreciably higher volume of business than 1964.

Asbestos Cement Pipes. The market shows a surprisingly strong demand for this particular season and there has been an encouraging increase in price levels although many areas are still soft. The long range view is reassuring due to recent Government attitudes on water supply and pollution control.

Asbestos Filter Fibre. The present market situation in Arizona is very good for all grades of fibre with the exception of crudes. Filter market demand is exceeding present production and mines are attempting to increase production to ease the current shortage. The United States Government's release of 850 tons of Arizona Crude 3 from the Stockpile will ease the current shortage and the outlook for the future is very good.

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

JOHNS-MANVILLE—Expenditures for research, development and engineering activities in 1964 amounted to over $11-million.

Asbestos Magazine, 1965, March 1965
ACL Doc 12575 · Page 17 of 27
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MINING ASSOCIATION OF BRITISH COLUMBIA has elected new officers. G. A. Gordon, General Manager of Canadian Exploration, has been elected President, an office he held some years ago. J. E. Morris, Resident Manager of The Crow's Nest Pass Coal Company, and Jens Jensen, President of Reeves MacDonald Mines, have been elected Vice-Presidents. W. G. Jewitt, who represents Pine Point Mines, is the immediate past president and continues as a member of the Executive Committee. Other members of the Executive Committee include: L. T. Postle, Granby Mining; J. S. McIntosh, Sheep Creek; B E. Hurdle, Comineo; J. D. Christian, Cassiar Asbestos; G. H. Davenport, Bralorne Pioneer; W. C. Gibson, Giant Mascot; W. J. Tough, Falconbridge Nickel; and, T. R. Wearing, Brynnor Mines. J. T. Ward of Cassiar Asbestos, J. S. Thomson of Bralorne Pioneer, and L. P. Starek of Giant Mascot are alternate members of the Executive Committee.

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P. O. BOX 11000

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JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



More than 50 asbestos-cement plants all over the world are successfully producing:

pressure pipes

socket pipes

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for your asbestos-cement project you are invited to contact:

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Tel. 45 91 / Telex 024 4874

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PRODUCTION

Australia—The Bureau of Mineral Resources has issued "The Australian Mineral Industry" containing the following production statistics on asbestos for the 2ND QUARTER 1964: Production totalled 4,279 short tons (Chrysotile—550 & Crocidolite—3,729).

Bechuanaland—According to the latest Annual Report of the Geological Survey Department of Bechuanaland, 1,889 tons of asbestos were sold in 1962 at a value of R271,169. In 1963, 1,744 tons were produced valued at R219,030. This chrysotile asbestos was all produced from the Moshaneng Mine which is situated near Kanye in the Bangwaketse Tribal Territory. The mine is operated by the Marlime Chrysotile Asbestos Corporation Limited on a royalty basis and all royalties accrue to the Bangwaketse Tribal Treasury. Diamond drilling has been undertaken in the Keng and Oikhe pan areas in the western Bangwaketse Tribal Territory where chrysotile fibre has long been known to occur in association with a serpentinized enstatite peridotite. A total of over 1,000 feet of diamond drilling has been completed. Cross fibre chrysotile asbestos occurs throughout most of the core from the Keng pan boreholes but the fibre is very short, dominantly less than 1/16", with percentage fibre development less than 1%, and thus well below economic grade.

Canada—The Dominion Bureau of Statistics has issued the following for the month of DECEMBER 1964 in short tons: Producers' Shipments of asbestos totaled 149,144 (Quebec—137,163 and Newfoundland, Ontario, and British Columbia—11,981). Total shipments for December 1963 were 106,198.

Canada—The Dominion Bureau of Statistics has issued the following for the YEAR 1964 in short tons: Producer's Shipments of asbestos totaled 1,416,650 (Quebec—1,284,882 and Newfoundland, Ontario and British Columbia—131,768). Total shipments for the Year 1963 were 1,276,609.

Cyprus—The Ministry of Commerce & Industry has issued the following statistics (production in short tons & exports in long tons) for the 4TH QUARTER 1964: October—Production 2,684, Exports 787, valued at £37,806; November—Production 1,638, Exports 898, valued at £45,526; and, December—Production 776, Exports 704, valued at £36,500.

Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos: DECEMBER 1964—Production 13,784.64 short tons, valued at £384,717.08.0d; and, YEAR 1964—Production 153,451.10 short tons, valued at £6,848,-018.08.06.

T&N Annual Report 1964—The 45th Annual Report and Accounts of Turner & Newall Limited for the year ended September 30, 1964, shows a profit for the year after taxation of £7,638,275. This compared with the previous year's figure of £6,531,098.

Carey Annual Report 1964—The Philip Carey Manufacturing Company reported that net sales in 1964, at 75,931,037, were the highest in the company's history and a 9% increase over 1963. Consolidated net earnings for 1964 increased to $3,102,187 from $2,142,208 in 1963.

Forecasts for many of the industries to which Carey supplies materials for use in their processes indicate an opportunity for further sales growth in 1965.

J-M Annual Report 1964—Johns-Manville Corporation reported net sales of $458,879,000 for 1964 compared to $414,881,000 in 1963. Net earnings amounted to $32,065,000 in 1964 compared to $27,681,000 in 1963.

A sound financial position, increased production capacity and aggressive marketing and research organizations have placed J-M in an excellent position for continued profitable participation in both domestic and overseas markets. J-M geologists continue to explore worldwide for commercially useful deposits of asbestos.

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

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — OCTOBER 1964

Unmanufactured Asbestos: — Short Tons

Amosite, Crude, Republic of South Africa	1,696
Crocidolite (Blue), Crude, Australia	250
Republic of South Africa	1,372
Chrysotile, Crude, Canada	2,176
Rhodesia & Nyasaland	558
Yugoslavia	749
Chrysotile Spinning Fibers, Canada	1,072
Mozambique	40
Rhodesia & Nyasaland	20
Chrysotile, Other, Canada	55,950
Republic of South Africa	20
United Kingdom	8
Yugoslavia	462
Asbestos, Other, Canada	4,482
Republic of South Africa	100
United Kingdom	58
	69,013

Valued at $6,799,976

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes, Fittings	7,528,696	$422,130
Asbestos-Cement Articles, Other	1,201,632	132,214
Asbestos Yarn, Rope, etc. & Other	..	148,620
		$702,970

Imports and Exports of Australia

(Published by Bureau of Mineral Resources) — 2nd Quarter 1964

Short Tons	Imports	Exports
Amosite	1,226	..
Chrysotile	7,032	..
Crocidolite	25	2,447
Other	951	..
	9,234	2,447

Exports From U.S.A.

(Figures by Bureau of the Census) — OCTOBER 1964

Unmanufactured Asbestos: — Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Italy	90	Argentina	200	Belgium	28
Japan	10	Brazil	38	Brazil	15
Other Ctys.	7	Canada	105	India	200
	107	India	1,803	Japan	595
		Japan	265	Korean Rep.	196
		Viet-nam	22	Mexico	100,000
		W. Germany	42	Turkey	217
		Other Ctys	5	U. Kingdom	20
			2,497	Viet-nam	99
				W. Germany	25
				Other Ctys.	30
					101,425

Total Unmanufactured Asbestos—104,029 — Valued at..$516,650

Manufactured Asbestos Goods:	Production	Value
Cement & Pipe Covering ..... Lbs.	571,007	$ 128,595
Textiles & Yarn ..... Lbs.	47,327	50,933
Packing ..... Lbs.	199,934	257,330
Clutch Facing ..... No.	173,180	165,142
Brake Lining (Mld & S. Mld) ..... Lin. Ft.	118,864	46,484
Brake Lining, Other ..... Lbs.	594,587	416,938
Construction Material ..... Lbs.	2,129,162	335,124
Asbestos Manufactures—Other	..	115,531
		$1,516,077

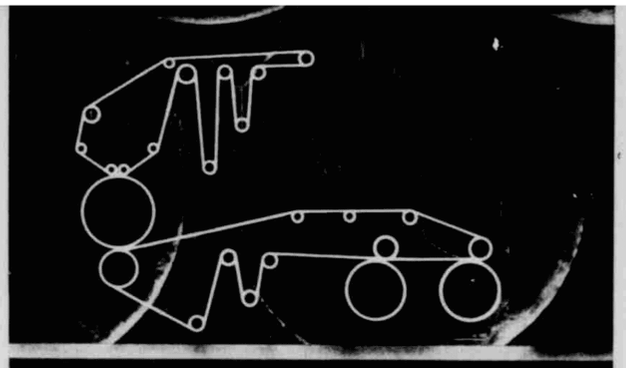
Johns-Manville has projects currently underway for the construction of an asbestos-cement pipe plant at Green Cove Springs, Florida, and an asbestos fiber interior building board plant at Ghent, Belgium.

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Cashew Dusts & Polymers
POLYREZ COMPANY, INC.
RAILROAD & SO. COLUMBIA — WOODBURY, N.J.

INDUSTRY NEWS

HAPPY BIRTHDAY

Jan van der Putten, Chairman & Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, March 15.
James Stockman, Chairman, United States Asbestos Company, Santa Rosa, California, March 15.
Richard L. Small, Treasurer, Drycor Felt Company, Staffordville, Connecticut, March 16.
Douglas Aynsley, Director, Beldam Asbestos Company Limited, Houslow, England, March 17.
Colon Brown, Vice Chairman of the Board, National Gypsum Company, Buffalo, New York, March 17.
Herbert Frohman, Manager, Asphalt, Mineral Fiber Products & Building Insulation Manager, Exports, The Ruberoid Co., New York City, March 18.
Walter J. Keimig, Secretary, Scandura, Inc., Charlotte, North Carolina, March 18.
J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Company Limited, Asbestos, Canada, March 19.
Emil T. Johnson, Senior Vice President, Fibrous Products Division, Unarco Industries, Inc., Bloomington, Illinois, March 21.
John H. Balch, Senior Vice President & Treasurer, Unarco Industries, Inc., Chicago, Illinois, March 22.
Grady B. Gulledge, President, Pan-American Fiber Corporation, Phoenix & Globe, Arizona, March 23.
O. A. Maggia, Secretary & Treasurer, The Ruberoid Co., New York City, March 24.
George Barge, Executive Vice-President, Atlas Asbestos Company, Montreal, Canada, March 27.
Adrain R. Fisher, Director, Johns-Manville Corporation, New York City, March 27.
Edward McL. Tittmann, Chairman, American Smelting and Refining Company, New York City, March 27.
J. T. Griffis, Sales Manager, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, March 28.
The Right Hon. Lord Elton, Director, The Cape Asbestos Company Limited, London, England, March 29.
Charles W. Hite, Vice President for Industrial Relations, Johns-Manville Corporation, New York City, March 30.
Ernest L. Ostic, Director, Technical Sales & Field Engineering, The Ruberoid Co., New York City, March 30.
Ross E. Sampson, Mine Manager, Advocate Mines Limited, Baie Verte, Newfoundland, March 31.
Francis H. May, Jr., Vice President for Finance, Johns-Manville Corporation, New York City, April 2.



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William H. White, Treasurer & Assistant Secretary, Raybestos-Manhattan, Inc., Passaic, New Jersey, April 2.
Fred A. Manske, President, National Gypsum Company, Buffalo, New York, April 4.
Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Company, St. Laurent, Montreal, Canada, April 5.
L. E. Lewis, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, April 9.
Raymond J. Sachs, President, H. W. Porter & Company, Inc., Baltimore, Maryland, April 10.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.
Joseph G. Hall, Vice President-Sales, Building Products Division, The Ruberoid Co., New York City, April 14.

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

Humes Limited has announced the retirement of **G. J. Stone** effective December 31st, 1964. Mr. Stone had completed 31 years of service with the Company. He will be succeeded as Manager, New South Wales, by **J. A. de Veer,** former Manager Marketing in the head office.

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Anthony J. DiIenno has been appointed a Vice President of **Baldwin-Ehret-Hill, Inc.,** Trenton, New Jersey.

Carey—During 1964, facilities were provided at the asbestos mine and mill of Carey-Canadian Mines Limited which resulted in improved quality and increased efficiency, and broadened the range of saleable fibres.

Harold B. Davies has been appointed by **Nicolet Industries, Inc.** as District Sales Manager for the southeastern and southwestern United States. His headquarters will be in Atlanta, Georgia. Mr. Davies, who joined Nicolet five years ago, was previously District Sales Manager in Houston, Texas.

W. H. Morris was elected Vice President of **H. W. Porter & Company, Inc.** at the annual meeting of the Board of Directors on February 4th, 1965. He will maintain his office at Newark, New Jersey. Mr. Morris succeeds **W. A. Graham,** who will continue as Vice President of Reid Hayden, Inc., Porter subsidiary, with his headquarters at Charlotte, North Carolina.

American Brake Shoe Company has announced consolidation of the former Bridgwater Machine Division, Engineered Castings Division and National Bearing Division into a new entity known as the Engineered Products Division. Officers of the new division are **N. George Belury**—President, **Boyd Bridgwater**—Executive Vice President, **Philip Clapp**—Vice President, Sales, for castings, **Paul Bauman**—Assistant Vice President, **John Bridgwater**—Vice President, Sales, for tire molds, and **Wayne Benson**—Product Manager.

American Brake Shoe Company's American Brakeblok Division has announced the appointment of **Thomas H. Bartlett** as Sales Manager for original equipment, reporting to John D. Hinton, Vice President of Sales for original equipment. Mr. Bartlett was formerly sales manager for Brakeblok's AKB material and has been with Brake Shoe since 1952.

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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	158.00
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

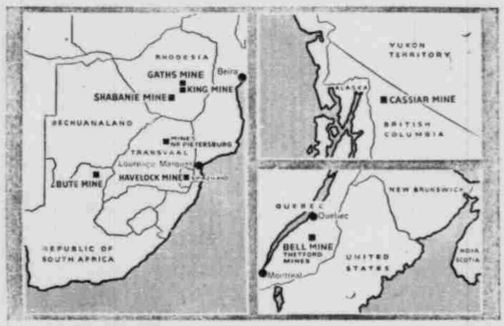
VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(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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Johns-Manville—Operations at the **Munro** asbestos mine in Northern Ontario, Canada, were terminated in August 1964, profitably completing the 15-year life of the orebody. The mine had been a source of asbestos fiber for use in the manufacture of asbestos-cement products.

Tonnage samples from both underground and surface are being studied at the Munro mill which has been converted to test ore in various milling processes. The fiber thus produced is being further evaluated in regular production operations at J-M's asbestos cement plants.

Johns-Manville—Changes being made at **Jeffrey Mine,** Asbestos, Quebec, Canada, will increase capacity by an estimated annual rate of 20,000 tons when completed in 1965. In the mill, the addition of new ore processing and packaging equipment increased output of premium grades of asbestos fibre. This expansion program will continue in 1965.

Johns-Manville's New York Contract and Warehouse Sales Unit will move, effective April 1st, 1965, from its present location at 605 West 29th Street, New York City, to 560 South Third Avenue, Mt. Vernon, New York 10550. The warehouse carries a complete line of industrial insulations, packings, textiles, industrial friction materials, asbestos-cement sheets and Dutch Brand tapes. **P. C. Mottern,** who celebrates his 25th anniversary with J-M this year, is Manager of the office.

Johns-Manville has announced the establishment of a Chemtite Products Department within its Pipe Division. This Department will have as its responsibility the production, sales, and service of asbestos-reinforced plastic Chemtite Pipe within a specialized geographical area of maximum chemical process industry concentration. Manager of the new Department will be **Chester J. Sulewski.** He will be assisted by **J. H. Stanley** as Chemtite Production Superintendent, and **J. P. Ferraro** as Chemtite Market Specialist.

Johns-Manville has announced the establishment of a Temp-Tite Products Group which will have as its responsibility the production and merchandising of a new J-M pipe system, consisting of a preinsulated epoxy-lined asbestos-cement pipe for use in underground distribution of low-temperature hot and chilled water from a central plant. **Daniel E. Clawson** has been promoted to the newly created position of Staff Manager, Temp-Tite Pipe.

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Allen F. Owens, 69, former Vice President of Latex Fiber Industries, Inc., a subsidiary of **United States Rubber Co.,** died Tuesday, January 26th, 1965, at the Sunmount Hospital, Tupper Lake, New York. Mr. Owen started with U. S. Rubber in 1919 as a laboratory chemist in General Laboratories, New York City. He joined Latex Fibre Industries as operations manager when that company was formed in 1932. From that time until June 1958, when he was made Vice President, he directed the management and growth of the company. He retired from the company in May 1960 with 41 years of service.

Clarence H. Sigler has been appointed Director of Marketing for the Textile Division, **United States Rubber Co.** He will be responsible for all sales, advertising and other marketing activities for the division which manufactures more than 750 kinds of textile products. Mr. Sigler joined U. S. Rubber in 1942.

R. H. Burton has been appointed Factory Manager of the **U. S. Rubber Company** Lastex plant in Gastonia, North Carolina, succeeding **Donald Dodge** who is retiring. Mr. Burton joined U. S. Rubber in 1939 and has held many positions at the company's Winnsboro, South Carolina, mills

John E. Moran has been appointed Manager of Training and Organization Planning for the Textile Division of **U. S. Rubber Company,** it was announced by Claude H. Allard, Vice President and General Manager of the Division. In his new position, Mr. Moran will be located at the Textile Division's Administrative Center in Winnsboro, South Carolina.

Garland J. Sligh has been appointed Sales Representative in the Southeastern district of the Textile Division of **United States Rubber.** Mr. Sligh joined U. S. Rubber in 1950 and prior to this appointment, was product engineer for Asbeston textiles. He will be located at the division's Winnsboro, South Carolina, administrative center and will sell the division's general line of textiles. The Southeastern district covers North Carolina, South Carolina, Georgia, Tennessee and southern Virginia.

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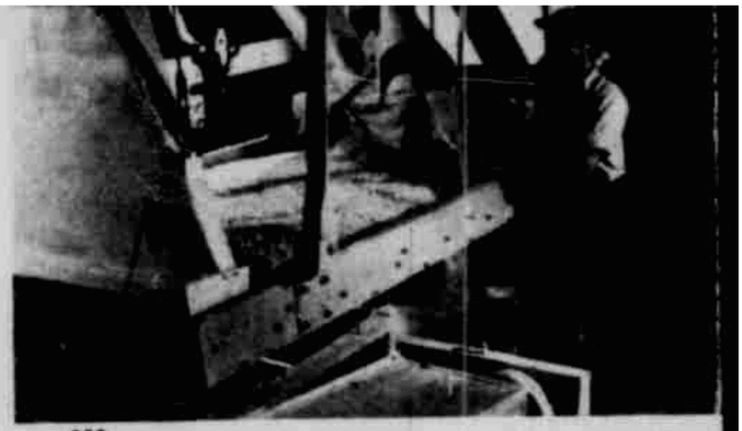
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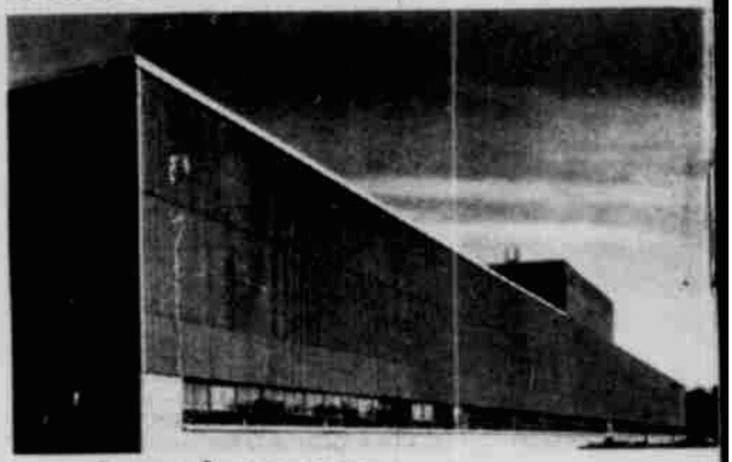
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