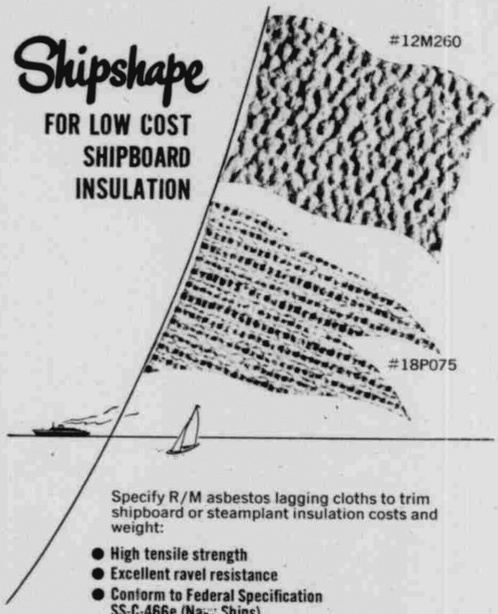


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GREETINGS

(A number of leaders in the Asbestos Industry welcome the opportunity to extend greetings to their colleagues through our pages, and to comment on various topics of interest.)

A. L. Penhale, President & Managing Director
Asbestos Corporation Limited

I am duly grateful, on behalf of our Company, to be able to use the pages of "ASBESTOS" to convey Seasons Greetings to all of our many friends in the Asbestos Industry. This has been a momentous year for our Company during which we have acquired the mining properties of the Johnson's Companies as well as the rights to a promising new asbestos property in Northern Ungava. Both these acquisitions will, we think, prove beneficial not only to our Company but for the Industry as a whole. Our future as a reliable supplier of top quality asbestos fibre has been assured for many years to come.

At the year's end, the markets for all grades of asbestos fibre appear much firmer, and in 1965 we can, I think, look for continued improvement.

P. C. Thomas, General Superintendent
Australian Blue Asbestos Pty. Limited

On behalf of Australian Blue Asbestos Pty. Limited I wish to thank our clients for their continued support and wish them, and all associated with the Industry, a Happy and Prosperous New Year.

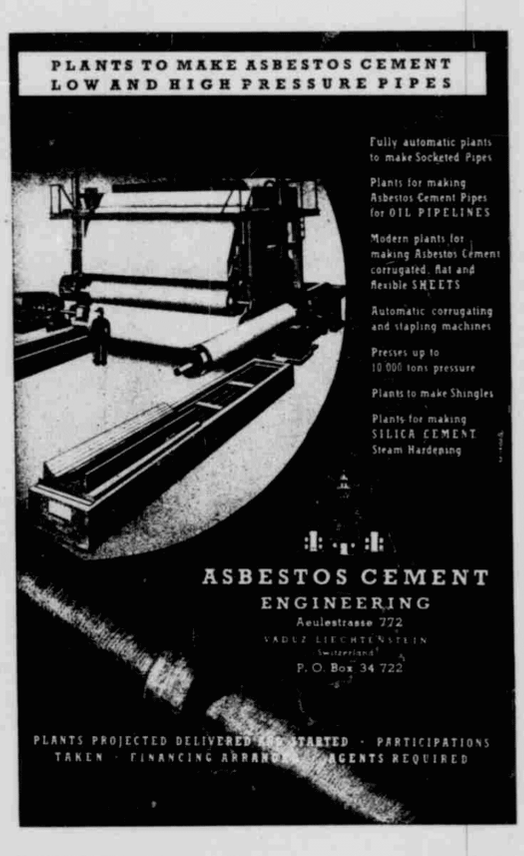
The year 1964 was a stabilizing one, but with a continued high demand for asbestos and asbestos products.

The improvements which have taken place have assured a bright outlook for the future and the Industry can look forward to 1965 with great confidence.

E. R. Stevens, President
Baldwin-Ehret-Hill, Inc.

Greetings, once again, to the Asbestos Industry. It is always pleasant to recall our many friendly associations with this group. Despite the "glamor" of new materials, asbestos fibre maintains a solid place in the products with which we deal.

The past year has shown significant increases in the



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demand for incombustible building products and this will continue. Without knowing it most of us have asbestos overhead and underfoot in ceiling and floor tiles; behind the scenes there is asbestos in fireproofing, board, pipe gaskets, and many other forms.

With this wide use of asbestos in so many fields, and the indication that 1965 is going to be another good year, the Asbestos Industry should be assured of continued good business.

R. H. Dent, Chairman & Managing Director
The Cape Asbestos Company Limited

Asbestos continues to hold its place in the world as one of the basic commodities in the building industry, as well as in many other applications. The emphasis in 1965 will, I feel, continue to remain on the necessity for a sustained effort in improving the quality and range of every kind of asbestos product. I am sure that the energy being devoted to this by the leading companies in the world will ensure that the Industry has a long and prosperous future before it.

May I take this opportunity of wishing all our friends a happy and successful New Year.

John W. Humphrey, President
The Philip Carey Manufacturing Company

At this time every year we are grateful for this opportunity to express our appreciation and good will to all of our friends in the asbestos and allied industries.

The world enjoyed a prosperous year during 1964, and our Industry was no exception as far as quantity of fibre produced and shipped is concerned.

We know that we must not be complacent, however, and fibre development programs are continuing at accelerated rates. Carey-Canadian Mines Limited made significant quality advances last year, thereby providing our customers with improved fibres in many grades. Our continuing research activities should insure additional improvements in the future.

It is very satisfying to be a part of a growing indus-

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try which is supplying an important raw material to many varied industries around the world. To one and all, we at Carey extend our sincere wishes for a Happy and Prosperous New Year.

Malcolm Meyer, President
Certain-teed Products Corporation

The outlook for the Asbestos Industry is encouraging and challenging. The demand for products made of asbestos should increase as an ever-growing number of new families require housing, public facilities, and consumer goods.

In anticipation of this expected growth, Certain-teed has embarked on a program to augment its facilities to serve the market.

In 1964, in addition to enlarging our present facilities, we began construction of a new ultramodern asbestos-cement pipe manufacturing plant at Riverside, California, to provide even better service in the West Coast market which we have served from our Santa Clara, California, plant since 1953.

We welcome this opportunity to extend our warmest greetings and best wishes to all in the Asbestos Industry.

George J. Pecaro, President
The Flintkote Company

Once again, we are happy to take this opportunity of extending to our many friends in the Asbestos Industry pest wishes for the New Year.

As 1964 drew to a close, both overseas and domestic shipments of asbestos fibre from our mine were at a high level and we face 1965 with confidence of a continuing demand for our fibre. Close cooperation between our new and enlarged laboratory facilities and mill production resulted in high quality fibre and we congratulate our personnel at the mill on their accomplishments. The market for our various products containing asbestos fibre is at a satisfactory level and we have every expectation that this will continue during the coming year.

The **R. C. M. Company** *- known all over the world as a Firm highly specialized in the manufacture of equipments for the production of asbestos-cement pipes and sheets - make available their own experience for the solution of the following problems:*

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C. B. Burnett, President
Johns-Manville Corporation

On behalf of Johns-Manville, I would like to express best wishes for the coming year to all our friends in the Asbestos Industry. Demand for asbestos fibre continued strong during 1964 reflecting successful results in expanding usage in both domestic and overseas markets. The continuing high level of business activity in national economy and in principal world markets forecasts increasing improvement in the Industry in the year ahead.

Michael J. Messel, President
Lake Asbestos of Quebec Limited

We are grateful to "ASBESTOS" for this opportunity to greet our many friends in the Asbestos Industry and extend our best wishes.

The end of 1964 brought indications that the supply and demand of asbestos fibres were coming into balance especially in the asbestos cement grades and that better stability for the asbestos producers is indicated for 1965 and the future.

Expansion in the asbestos cement industry, together with other uses combined with more intensive research and marketing for new and better asbestos products, should hold a steady and progressive future for the Asbestos Industry.

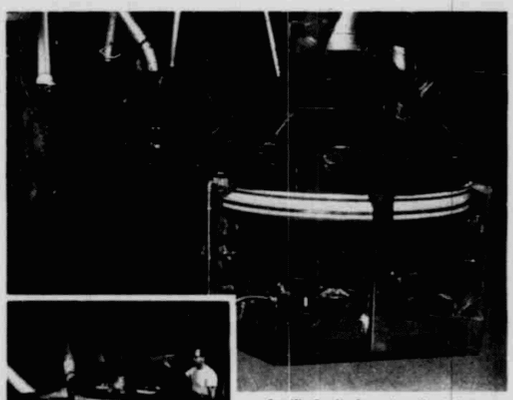
Happy Holiday Season and a Prosperous New Year to all.

Melvin H. Baker, Chairman of the Board
National Gypsum Company

1964 was a comparatively good year for sales of asbestos products. However, the Industry needs to spend more in sales promotion which, I am convinced, would create wider use. Prices should be enough higher to permit this kind of selling. Product prices during the year were stable but low.

Fibre sales were in good volume, but because of refinements and service required, there was not sufficient profit to reflect a very satisfactory return on the investment.

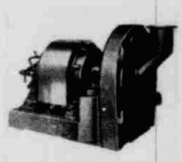
We look for no greater volume in 1965 but, over the



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Fiber Classifier. For wet classification of organic and non-organic fibers. Quebec Asbestos Mining Association has set up test methods using this unit to determine size, length, distribution and dust content of fibers.

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longer range of the next five years, we expect a substantial upturn in volume.

Comparatively speaking, we are neweomers in this Industry, and we want to thank the various producers for their help and fine cooperation. Individually, we wish them each a Prosperous 1965.

Philip A. Meyer, Vice President
Nicolet Industries, Inc.

We are pleased to have this opportunity to send greeting to "ASBESTOS" and our many friends in the Asbestos Industry, and to wish them well for the New Year.

1964 has been a good year for our Industry. Shipments of asbestos fibre and asbestos products have increased significantly over 1963—on a world wide basis. Once again we have evidence of growth in the Asbestos Industry in spite of the inroads of supplantive materials in some traditionally asbestos markets.

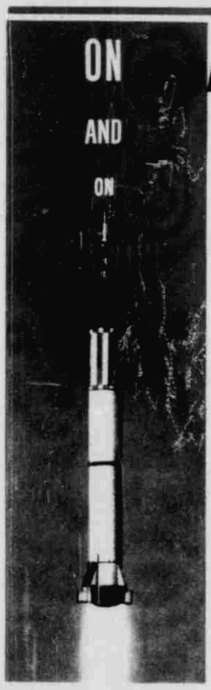
Looking ahead we at Nicolet feel 1965 will be a better year than 1964 and are planning accordingly. Populations are still expanding and standards of living are being raised, creating increased demands. Although there has been some hesitation in construction activity in the United States lately, we feel 1965 will witness a resumption in the upward trend in building in turn requiring more asbestos products.

Jan Van der Putten, Chairman & Managing Director
Putten's Asbestos Corporation

I am grateful to "ASBESTOS" for having given me once again the opportunity to convey my New Year greetings.

My forecasts for 1964 as expressed in my last year's message proved to be correct. The past year was a very successful one indeed in every respect, both in the Asbestos fibre Producing and Asbestos Products Manufacturing Industries.

In South Africa and Rhodesia and in fact in all other



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FELTS which are already doing much to improve performance and reduce costs in asbestos sheet and pipe manufacture.



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asbestos producing countries, the turnover figures exceeded all expectations. There is every indication that the figures in 1965 will still vastly surpass those of the year just completed.

The anticipated production of all types of fibres both in South Africa and Rhodesia is practically completely sold out for 1965. Strenuous efforts are being made all round to enlarge the production so that the needs of the ever increasing asbestos industries can be catered for.

I extend my thanks to all who supported us in the past and I send to all our friends my sincerest wishes for a prosperous and peaceful New Year.

J. F. D. Rohrbach, President
Raybestos-Manhattan, Inc.

We are pleased to report another year of progress in 1964. Competition is keener than ever and we realize that 1965 will be a challenging period for all of us.

At this season of the year we are thankful for our many friends in the Asbestos Industry and we wish them a joyous and prosperous New Year.

May the good Lord continue to bless us all as we face the future.

E. J. O'Leary, Chairman & President
The Ruberoid Co.

The competition within the asbestos fibre industry continued on its aggressive pattern throughout 1964. There is no indication that this spirited activity will lessen, to any degree, in the coming year.

As we view 1965, we are heartened by the general feeling that the pickup in the nation's economy will continue at a healthy pace. The fact that there is a prediction of a 5% growth in the Gross National Production of Goods and Services, is also an encouraging factor.

All our projections for 1965 are based on, and pointed



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Remember, too, Ruberoid offers a complete line of chrysotile fibres for use in electrolytic cells, compressed sheets, brake linings, gaskets, plastics, shingle stock, asbestos papers, insulation cements, floor tile and phenolic molding compounds.

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to, healthy activities in construction and maintenance.

We look for the continuance, on a strong level, of capital spending by business for the construction of plants, utilities and educational facilities as well as apartment units and one and two family dwellings.

Also important to our scope of operations is the repair of existing homes and other structures. In normal times, more than half of the company's output of building materials goes into this type of project.

In 1965, Ruberoid will continue its long range investigation into all phases of the company's products and processes. To this end, we have welded together aggressive teams of research, production and marketing to solidify our position in the industry.

To all our friends and associates, may we extend our sincerest greetings for a bright and satisfying Holiday season and a New Year that will bring a widespread share of health, happiness and blessings.

R. G. Soothill, Chairman
Turner & Newall Limited

We are glad once again to have this opportunity of wishing our many friends in the Asbestos Industry a New Year of prosperity and growth.

During 1964 the world demand for good quality chrysotile fibres improved, and there is reason to hope that this trend will continue throughout 1965. The prospects seem particularly bright for shingle grades of premium quality.

We welcome the increasing cooperation within the Industry on the standardization of test methods for asbestos fibre. This should lead to a better development and utilization of the properties of the product and should help both producer and user.

Claude H. Allard, Vice President & General Manager
Textile Division, United States Rubber Co.

It is a pleasure to extend our wishes for a happy and prosperous new year to all our friends in the Asbestos Industry.

There is little doubt that the last 12 months of business were good — the best in sales of asbestos textiles since World War II. We are confident that continued aggressive selling coupled with the introduction of new applications for asbestos will make 1965 an even better year. Most economists expect continued growth over the next twelve months and we at U. S. Rubber believe the Asbestos Industry will share profitably in this general prosperity.

E. E. Cox, Editor
"ASBESTOS"

Once again, I take pleasure in extending my own and my staff's sincere best wishes, good health, prosperity and progress in 1965 to all in the Asbestos Industry. The various seasonal greetings extended to "ASBESTOS" from its readers throughout the world have been received with a great deal of gratification and enjoyment.



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Wilson Davis, Chief Engineer
United States Asbestos Company

Wilson Davis, Chief Engineer for United States Asbestos Company, has been interested in mineral mining operations most of his life. According to Mr. Davis, "It's the milling part of it that's always interested me most, not the prospecting. I'm not much of a prospector, although back in Missouri when I was much younger, I crawled around in the ground in a lead mine; that was when they were using sleighs to haul the ore out of the mines." Mr. Davis was born near St. Louis, Missouri, spent many years in the barite mining industry in Missouri, then worked as a heavy equipment operator during the war years when the nation's highway expansion program was accelerated.

Mr. Davis left Missouri 13 years ago and headed west. He helped supervise the installation of equipment at a new manganese mill near Albuquerque, New Mexico, then moved on to another manganese mining project in Phoenix, Arizona. It was while in Phoenix that he first became interested in the processing of asbestos fiber. Moving to Coalinga in 1959 when the asbestos "rush" began there, he soon found work in the new industry but it was not until United States Asbestos Company set up operations last year and put him in charge of its new million-dollar processing plant installation that he found his deepest satisfaction.

Mr. Davis describes the company's new mill operation as the culmination of a dream. "The company has made a lot of changes and improvements over the usual asbestos fiberizing equipment. We're going to get a better recovery out of the ore with this mill because of the different way we're processing. We remove the talc and iron out before we fiberize; that's one reason why our fiber is so white—that plus the fact we have good ore deposits."

"Of course, this means a lot to me—this new mill," Mr. Davis adds, "because this is the first time I've ever been in charge of an operation this big. It makes me feel it's been worth waiting for all these years.

CANADA'S MINERAL PRODUCTION—1964 (preliminary estimate)—Again the mineral industry in Canada made a new high in 1964 in the total value of shipments which amounted to $3,455 million. This is shown in an estimate prepared by the Dominion Bureau of Statistics, Ottawa. The value in the preceding year was $3,050 million.

Non-metallic minerals increased 11 per cent in value to exceed $287 million. The greatest contributor was the Asbestos Industry which shipped $148 million worth of crudes and milled fibres. Quebec produced the major portion of the asbestos, with substantial amounts mined in Newfoundland, Ontario and British Columbia.

An estimated 1,377,079 tons of asbestos was produced in Canada in 1964 valued at $148,370,312. This compares with 1,275,530 tons in 1963 valued at $136,956,180.

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ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company, has moved its headquarters from 375 Park Avenue, New York City, to Orangeburg, New York. Orangeburg produces the line of Flintkote asbestos-cement pipe products which includes pressure and gravity sewer pipe for municipal installations; building sewer pipe for house-to-street sewers; irrigation pipe for golf course, park, cemetery and farm irrigation systems; and air duct for warm air heating and air conditioning installations, in addition to its Orangeburg Bituminous Fibre and Plastic pipe.

FORM PACK—A mixture of long asbestos fibres and Teflon can be formed by hand into any shape and is suitable for sealing leaking valves, pumps and other equipment without shutting down production. This material, called Form Pack and marketed by *Devcon* of Maidenhead, England, does not need cutting and fitting. It is simply pushed into the area to be sealed and the cap or packing nut replaced. It is self-lubricating and can be used from minus 300 degrees F. to plus 500 degrees F. with excellent resistance to chemicals.

1965 BOOK OF ASTM STANDARDS, published by the American Society for Testing and Materials, reflects the entire span of today's knowledge of materials and materials testing. Issued periodically in 32 parts, the 1965 Volume will contain 23,000 pages and approximately 3700 standards of which more than 1260 will be new or revised since the publication of the 1964 Volume. ASTM Standards are used throughout the world for specifying and evaluating millions of dollars worth of materials annually and are applied in design, manufacturing, construction and maintenance. Standards for literally hundreds of materials are covered in the 1965 Volume. For more information, contact ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103.



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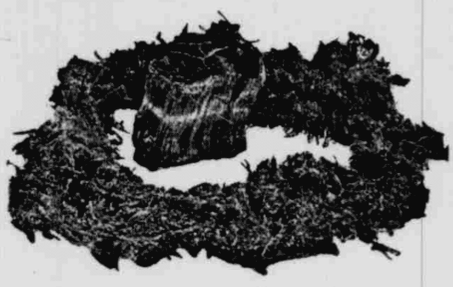
VIA ROMA, 27 BRONI (PAVIA) ITALIA

J-M TRANSITE 18-inch asbestos-cement pipe, supplied by Johns-Manville to U. S. Army Corps of Engineers specifications, brings water from a primary supply line to various facilities in and surrounding the launching pads from which the Apollo lunar spacecraft will be launched. Services include fire hydrants, potable water, liquid oxygen facilities, fire foam building, and a base connection to supply the Launcher Umbilical Tower, from which the Apollo-Saturn V will be serviced immediately prior to launch. Pipe was approved to withstand the tremendous pressure and vibration that will occur on launch of the huge Saturn V. booster. Water pipe used ranges from the 18-inch class 150 Transite main supply down to 4-inch class 200 Transite immediately around launching pads. Corps of Engineers specifications called for 30-inch cover on the pipe with a tolerance of only plus or minus one inch.

J-M COLORLITH—Johns-Manville has introduced a new 8-page color brochure on its handsome line of architectural Colorlith. The Colorlith group includes Colorlith, Colorchip, Colorthin, and Colorvein. A "skyscraper" arrangement of Colorlith samples on the cover indicates the range of colors and patterns available in this J-M family of products. Colorlith products are modern "stone" materials of uniform strength and attractiveness with no stratifications to cause weakness. They come in dense monolithic panels and are integrally colored. All are fire resistant, weather resistant and wear resistant and all can be used for exterior or interior applications.

J-M COLORLITH CHALKBOARD—Johns-Manville has issued a new folder in color on its Colorlith Chalkboard for schools. The 4-page folder describes and illustrates all the pertinent features of this asbestos-cement product and covers its physical properties, architectural specifications and hints on installation.

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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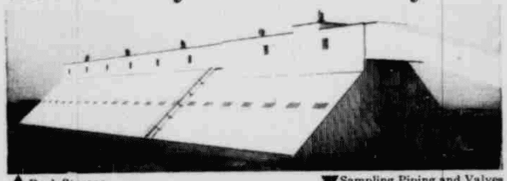
LORD LEWIS JOSEPH HUGH CLIFFORD, a Director of *Humes Limited*, died August 27th, 1964 at Gibraltar. He was born at Blenheim, New Zealand in 1889 and was the 12th baron of Chudleigh. As sharebroker, Lord Clifford arranged the float of Hume Pipe Company (Australia) Limited in 1920 and was one of the original directors. He was also Chairman of Hume Steel Limited. On the merging of the two companies into Humes Limited, he became a director of that company and remained as such until his retirement in August 1960. Lord Clifford did much to further the interests of the company and was active in establishing the Singapore Branch, now Hume Industries (Far East) Limited.

CAREYSTONE—A new brochure describing Careystone Corrugated Asbestos-Cement Roofing and Siding, and Industrial A-C Board is available from the manufacturer, The Philip Carey Manufacturing Company, Cincinnati, Ohio. This new literature, Form 6621, includes details on 4.2 corrugated asbestos-cement sheets, corrugation pitch information and specification data. Call-out type drawings show staggered-joint application with square corner sheets, and straight-joint application with cut corner sheets. Construction details include drawings of asphalt enclosure strips, ridge and corner rolls, fasteners, and clips and bolts for roofing and siding. One page is devoted to Carey Industrial A-C Board, listing uses, available sizes and specification data.

CAREY INDUSTRIAL INSULATIONS and Insulating Cements for use in power, chemical, petroleum, petrochemical, commercial and manufacturing industries are listed in a new eight-page brochure (Form No. 6551) available from The Philip Carey Manufacturing Company.

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BUILDING—According to F. W. Dodge Company, a division of McGraw-Hill, Inc., the value of new contracts for future construction in NOVEMBER 1964 was $3,757,124,000, up less than one per cent from the November 1963 total of $3,748,802,000. A breakdown of the total November figure, with percentage changes from November 1963, is as follows; nonresidential building $1,262,987,000 up 17%; residential building $1,482,063,000 down 2%; and, nonbuilding construction $1,012,074,000 down 12%.

At the end of eleven months, the total value of 1964 construction contracts was $43,764,549,000 to lead the comparable 1963 total of $42,188,594,000 by 4%.

U.S. CENSUS CHARTS—A ten-year picture of trends in U.S. industry as a whole and in 40 major groups of products is provided in a Chart Book issued by the U. S. Department of Commerce. The Chart Book, prepared by the Bureau of the Census, presents in 108 line charts the statistics presented in a Census Bureau publication of October 1963 "Manufacturers' Shipments, Inventories, and Orders 1947-1963 Revised". Until 1963, the series was known as "Industry Survey". The 108 charts give seasonally adjusted data for some of the series in the survey for the years 1953-1963 and for others for 1960-1963. Charts are provided for industry groupings, market groupings, and supplementary series such as machinery and equipment industries, consumer durables, and defense products. M3-1 Supplement "Manufacturers' Shipments, Inventories, and Orders 1953-1963" is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402 ($1.50 per copy).

PUT MANAGEMENT INTO MAINTENANCE will be the theme of the *1965 Plant Engineering & Maintenance Show & Conference*. The events are in their 16th year and will be held at Cobo Hall, Detroit, Michigan. Dates for the show are March 8th through 11th ,1965 and the conference will end one day earlier.

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TURNER & NEWALL LIMITED has announced the formation of an Indian public company, *Hindustan Ferodo Limited*, which has taken over the manufacturing and related marketing operations hitherto carried on by another Group company, Asbestos, Magnesia & Friction Materials Limited, of Bombay. Capital of the new company is being expanded, after discussions with the Indian Government, to finance an expansion in manufacturing capacity to cater for the growth of the market for brake and clutch linings not only in the automotive industry but in industry generally under the current Five Year Plan. It is anticipated that this growth in demand will continue under the Fourth Five Year Plan with favorable effects not only on the production of Ferodo brake and clutch linings but also in the company's other products (principally asbestos textiles and compressed asbestos fibre jointings).

PITTSBURGH CORNING CORPORATION has available a new catalog, UN-2, on UNIBESTOS, an amosite-fibered asbestos material for high temperature insulation applications ranging from +100°F. to +1500°F. UNIBESTOS is used in the petrochemical industries, power plants, utilities, the marine field, for underground pipe applications, and general industrial use. Included in the catalog are photographs of on-the-job applications, four tables of suggested thicknesses from the minimum requirements (personnel protection) to the maximum (industrial and commercial uses), engineering drawings for joints and fittings, a chart of expansion control, and typical specifications.

A copy of this catalog may be obtained from the Pittsburgh Corning Corporation, One Gateway Center, Pittsburgh, Pennsylvania 15222.

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INDIA Metal Distributors, Ltd. Calcutta
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NORWAY Astrup & Son Oslo
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SPAIN Textile Improvements Ltd. Guildford, England
SWEDEN Titan Stockholm
TURKEY Textile Improvements Ltd. Guildford, England

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CANADIAN CHRYSOTILE ASBESTOS CLASSIFICATION, including description of method of testing on the Canadian Standard Testing Machine, January 9,1961 edition, is available at 35¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

THE ASBESTOS FACTBOOK (3rd Edition), a 20-page pamphlet giving in compact form facts concerning origin, locations, uses, analyses, and qualities of asbestos, is available at 25¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

ASBESTOS MINING METHODS, by C. V. Smith, a 16-page phamphlet describing the various methods employed in mining asbestos, and, MILLING ASBESTOS, by J. C. Kelleher, companion artiele to Asbestos Mining Methods, 16 pages, are available at 25¢ each from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

IIC BUILDING CONFERENCE—Ninety speakers, drawn from fifteen states, will lead discussions at the Industrial, Institutional & Commercial (IIC) Building Conference at Cobo Hall, Detroit, Michigan, March 8th through 11th, 1965. The conference will be held concurrently with the IIC Building Exposition and is sponsored by the American Institute of Consulting Engineers. For further information, contact Clapp & Poliak, Inc., 341 Madison Avenue, New York, New York 10017.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business is good and in most areas is still improving. Total unemployment has dropped substantially which is an excellent development. Industrial production is at a very high level and promises to continue at that level or to rise even more in the months ahead. Most economists, both in government and in private industry, expect continued good business for 1965. The steel industry expects a drop in total production in 1965 based on studies indicating that inventories in the hands of steel users have been built up during 1964 and will probably be trimmed during the coming year. The same situation may exist in other lines and a general inventory reduction could have a levelling effect on the upward swing of business. The overall picture, however, looks very encouraging.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during November 1964 totalled 160,756 tons, an increase of 26,723 tons or approximately 17% over the same period last year. Year to date shipments at 1,145,643 tons exceed the same period 1963 by 83,607 tons or roughly 7%.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Production of asbestos textiles is being maintained near capacity levels as a result of continuing good demand. Sales for 1964 are expected to exceed the prior year's volume and all indications point toward another banner year in 1965.

Asbestos Brake Lining. Volume of replacement sales is slightly over 1963 and it is hoped that this situation will continue during 1965.

Asbestos Paper & Millboard. Business remains at a good level and should continue strong during this new year.

Asbestos Saturated Paper. Demand for this material is substantially higher than last year but prices are soft in some scattered areas. The outlook for the coming months is good.

High Pressure Insulation. Business is going along at a good pace and jobs, bid for earlier, are now being placed. Final 1964 figures should be well ahead of last year.

Low Pressure Insulation. The demand for low pressure and commercial pipe insulations continued strong through the fourth quarter of 1964 and only a slight seasonal down-swing is foreseen in the first quarter of 1965.

Asbestos Cement Shingles—Roofing & Siding. This market is stable and prices could increase slightly. Trade and consumer acceptance of the new name of "mineral fibre siding" is taking hold and should upgrade these products.

Asbestos Cement Pipes. Up to the present time, the market for asbestos-cement pipes has been active. However, the future is clouded by two factors: first, there is a diminution of Federal aid particularly in the accelerated public works program which has now largely been spent; and second, the falling construction rate, particularly of single homes, would seem to indicate a lower market in the coming months.

Asphalt Tile. Asphalt tile has maintained its share of the resilient tile business but vinyl asbestos continues to take the greater share and is expected to pass the one-billion square foot mark in 1964 and proceed even higher in 1965.

Asbestos Filter Fibre. The market situation for Arizona filter fibre continues strong. Demand is exceeding the supply and Arizona mines are stepping up production to meet this demand. The outlook for the future is good.

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

Asbestos Magazine, 1965, January 1965
ACL Doc 12573 · Page 17 of 27
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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 1ST QUARTER of 1964: Production totalled 3,080 short tons (Chrysotile—349 & Crocidolite—2,731).

Canada—The Dominion Bureau of Statistics has issued the following for the month of OCTOBER 1964 in short tons: Producer's Shipments of asbestos totaled 122,987 (Quebec—114,109 and Newfoundland, Ontario and British Columbia—8,878). Total shipments for October 1963 were 125,255.

Southern Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos: OCTOBER 1964—Production 13,613.47 short tons, valued at £588,922.02.05.

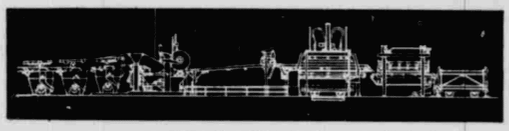
Hume Industries (Malaya) Limited is a new child of the parent company, Hume Industries (Far East) Limited. But whereas the parent company manufactures a wide range of products, the Malayan subsidiary is currently only engaged in the manufacture of asbestos cement products—both pipes and roofing sheets. During 1961 and 1962, work was put in hand to construct the factory and install a sheeting machine. The company's factory is located at Petaling Jaya, which is a satellite town of Kuala Lumpur, the capital of Malaysia. This location is central as far as Malaya is concerned and is well served by road and rail facilities throughout the territory. Further, the factory is only twenty miles from Port Swettenham, from where overseas deliveries of products and inward shipment of raw materials are handled. As an adjunct to the pipe factory, there is an asbestos cement joint plant.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — AUGUST 1964

Unmanufactured Asbestos: — Short Tons

Amosite, Crude, Republic of South Africa	1,874
Crocidolite (Blue), Crude, Rep. of S. Africa	1,721
Chrysotile, Crude, Republic of South Africa	40
Rhodesia & Nyasaland	580
Yugoslavia	979
Chrysotile Spinning Fibers, Canada	822
Rhodesia & Nyasaland	25
Chrysotile, Other, Canada	56,220
Italy	2
Republic of South Africa	1
Rhodesia & Nyasaland	147
USSR	20
Asbestos, Other, Canada	3,596
Rhodesia & Nyasaland	51
United Kingdom	83
Valued at: $5,777,620	60,161

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes, Fittings	11,085,029	$559,566
Asbestos-Cement Articles, Other	1,355,226	145,226
Asbestos Yarn, Rope, etc. & Other	..	32,056
		$736,848

Imports and Exports by United Kingdom

(Published by Reuters) — OCTOBER 1964

Raw Materials — Tons 2,240 lbs.

From: Republic of South Africa	2,444
Basutoland, Bechuanaland & Swaziland	720
Rhodesia & Nyasaland	3,234
Canada	11,320
Other Commonwealth Countries & Irish Rep.	190
Foreign Countries	571
	18,479

Exports (crude fibre & waste) — 647 tons.

Exports From U.S.A.

(Figures by Bureau of the Census) — AUGUST 1964

Unmanufactured Asbestos: — Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Japan	14	Belgium	44	Brazil	30
	—	Brazil	35	Japan	521
	14	Canada	50	Korean Rep.	377
		India	180	Netherlands	88,042
		Japan	227	Switzerland	5
		Korean Rep	94	Viet-nam	98
		S. Africa	4	W. Germany	30
		Viet-nam	223	Other Ctys	27
		W. Germany	44		89,130
		Other Ctys	6		
			907		

Total Unmanufactured Asbestos..90,051 — Valued at..$229,597

Manufactured Asbestos Goods:		Production	Value
Cement & Pipe Covering	Lbs.	498,090	$ 126,945
Textiles & Yarn	Lbs.	43,831	49,390
Packing	Lbs.	134,903	231,325
Clutch Facing	No.	118,417	111,608
Brake Lining (Mld. & S. Mld.)	Lin. Ft.	106,725	62,489
Brake Lining, Other	Lbs.	333,834	259,041
Construction Material	Lbs.	1,660,631	225,492
Asbestos Manufactures—Other		..	5,583
			$1,071,873

Imports and Exports of Australia

(Published by Bureau of Mineral Resources) — 1st Quarter 1964

Short Tons	Imports	Exports
Amosite	2,046	..
Chrysotile	6,781	..
Crocidolite	2	702
Other	4,123	..
	12,952	702

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Exports From Canada

(Published by Dominion Bureau of Statistics) SEPTEMBER 1964

Unmanufactured Asbestos:	Crude	Milled	Shorts
	S. Tons	S. Tons	S. Tons
United States	10	21,654	41,390
United Kingdom	..	4,317	4,384
South America	..	4,840	1,256
Central America & Mexico	..	1,915	399
Europe	..	19,999	13,888
Japan	1	2,507	3,451
Other Countries	..	8,296	1,533
	11	63,528	66,301

Total Unmanufactured Asbestos—129,840 Valued at—$15,153,065

Manufactured Asbestos Goods:

Asbestos Brake Lining Facings	$ 21,618
Asbestos-Cement Building Materials	206,739
Asbestos-Cement Products, Other	31,569
	$ 259,926

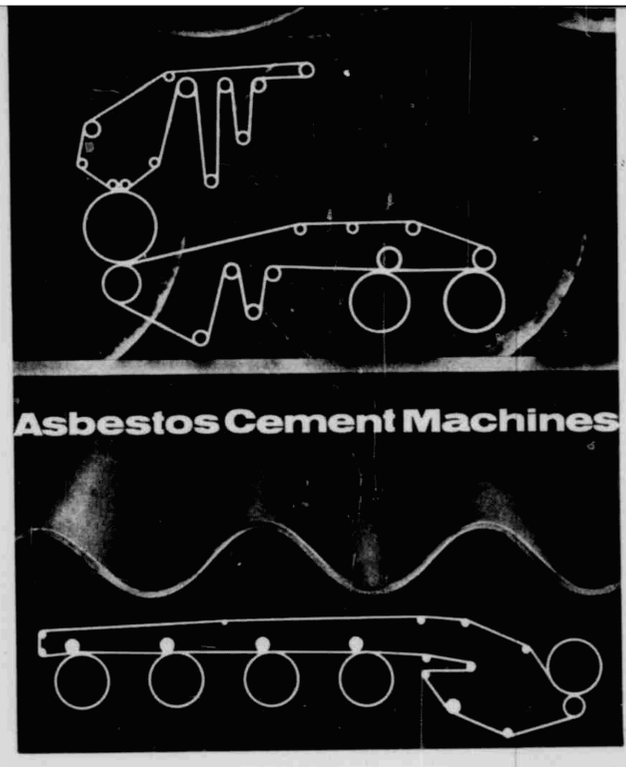
OCTOBER 1964

Unmanufactured Asbestos:	Crude	Milled	Shorts
	S.Tons	S.Tons	S.Tons
United States	3	17,135	39,289
United Kingdom	..	5,793	5,005
South America	..	2,467	1,153
Central America & Mexico	..	1,355	140
Europe	2	15,870	11,548
Japan	11	2,487	4,043
Other Countries	..	7,063	1,554
	16	52,170	62,732

Total Unmanufactured Asbestos—114,918 Valued at—$12,871,694

Manufactured Asbestos Goods:

Asbestos Brake Lining Facings	$ 17,068
Asbestos-Cement Building Materials	269,703
Asbestos-Cement Products, Other	35,689
	$ 322,460



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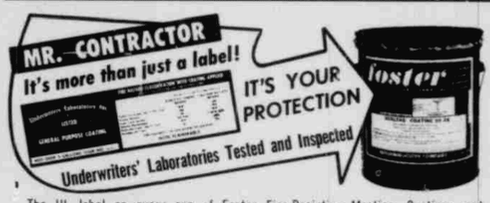
INDUSTRY NEWS

HAPPY BIRTHDAY

Thomas Muir Warden, Director, The Cape Asbestos Company, Limited, London, England, January 15.
Alvin F. Heinsohn, Vice President & Director, Raybestos-Manhattan, Inc., North Charleston, South Carolina, January 17.
Richard Bentley, Director, Australian Asbestos Pty. Limited, Marrickville, Australia, January 19.
Leonard Diener, First Vice President, Smith & Kanzler Company, Linden, New Jersey, January 23.
Edwin R. Ashmore, Jr., Vice President, Universal Insulation Company, Philadelphia, Pennsylvania, January 25.
Eric G. Scott, Finance Director, Wunderlich Limited, Sydney, N.S.W., Australia, January 25.
William A. Schreyer, Treasurer, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, January 25.
H. G. (Mike) Donovan, Sales Manager—U.S., Asbestos Fibre Div., Johns-Manville Corporation, Manville, New Jersey, January 27.
Herbert S. Hirschfeld, Manager, Standard Asbestos Company, New York City, January 27.
T. I. Read, Director of Research, The Russell Manufacturing Company, Middletown, Connecticut, January 27.
Harold L. Humes, Vice President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, January 31.
Nelson Bain, President, Asbestos Erectors of Canada Limited, Montreal, Canada, February 1.
William G. Neel, Director of Sales, Asbestos Fibre & Trade Relations, The Ruberoid Co., New York City, February 1.
Lt. Col. J. G. Ross, Director, Asbestos Corporation Limited, Thetford Mines, Canada, February 1.
Clarke E. Wayland, Vice President, Western Asbestos Company, San Francisco, California, February 1
Mrs. L. H. Saitta, President, Asbestos Corporation of America, Garwood, New Jersey, February 2.
Hermon Bentley, Managing Director, Australian Asbestos Pty. Limited, Marrickville, Australia, February 5.
Seymour Zelnick, Sales Promotion Manager, The Ruberoid Co., New York City, February 5.
Joseph P. Flynn, Public Relations Manager, The Ruberoid Co., New York City, February 7.
Ralph L. Bullock, Vice President, Drycor Felt Company, Staffordville, Connecticut, February 8.
George V. Parker, Chairman, British Uralite Limited, Higham, Rochester, Kent, England, February 8.
Ronald Henry Dent, Chairman & Managing Director, The Cape Asbestos Company Limited, London, England, February 9.

Roger Hackney, Vice-President for Mining and International Divisions, Johns-Manville Corporation, New York City, February 9.
Paul E. Poulin, President, Asbestonos Corporation Limited, St. Lambert, Montreal, Canada, February 9.
Clark H. Harrison, First Vice-President, The Clark Asbestos Company, Cleveland, Ohio, February 10.
Robert M. Stroud, Vice President Sales, K&M Division, Nicolet Industries, Inc., Ambler, Pennsylvania, February 10.
H. A. Hirschfeld, President, Standard Asbestos Company, Inc., New York City, February 11.
George Mladinich, President, Atlantic Asbestos Corporation, New York City, February 11.
A. G. Grant, Managing Director, Cape Insulation and Asbestos Products Limited, London, England, February 12.
James D. Moran, Vice President & General Manager, Flintkote Division, The Flintkote Company, New York City, February 12.
Herbert L. Levine, President, Asbestos Products Manufacturing Company, Newark, New Jersey, February 13.

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



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BENJAMIN *foster* COMPANY

Division of AMCHEM PRODUCTS, INC., Ambler, Pennsylvania 19002

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Johns-Manville Corporation has appointed **Verrill M. Norwood** to the newly created post of Manager of Field Services of its Pipe Division. Primary responsibilities of the new position are to help establish policies and procedures for the most effective utilization of J-M's Pipe Instructor Service, help coordinate the overall Pipe Division installation service program, provide data, reports, and observations to J-M Product Managers in the interest of reducing complaints and developing better customer service, and to assist J-M research and production groups in product improvement and improved customer service.

Mr. Norwood started with J-M in 1929 in the first, introductory phases of Transite pipe and was instrumental in creating favorable field installation and acceptance of the then virtually unknown product.

J/M-Metate—The Celite Division of Johns-Manville has made arrangements with Metate Asbestos Corporation to merchandise and sell all production of Metate's asbestos filter fiber including both non acid washed and acid washed types. The arrangement will provide broad merchandising and sales experience to those products produced by Metate and at the same time will broaden the line of filter media offered by the Celite Division. Johns-Manville is a major miner and processor of diatomite and other specialty filter aid and filler products for the chemical and food processing industries. The non acid washed and acid washed filter fiber products will be merchandised under the trade name "Johns-Manville Fibra-Flo". Literature on these products is available directly from the Celite Division of Johns-Manville.

Johns-Manville Corporation's new multi-million-dollar Hayward, California, floor tile plant will go into production early this year and will produce an estimated 65 million square feet of asphalt-asbestos and vinyl-asbestos floor tile annually.

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The Philip Carey Mfg. Co. has appointed **J. W. Bartlett** and **W. B. Evans** as Vice Presidents.

Mr. Bartlett began his career at Philip Carey in 1940 as a Sales Representative and has a broad experience in all phases of the Carey sales organization. He will continue to be responsible for the supervision of Philip Carey general line, industrial and dealer sales activities in the Midwest and Eastern Divisions.

Mr. Evans joined Philip Carey in 1950 as a Sales Representative and will continue to have responsibility for the manufacturing, sales and product development activities of the Miami-Carey Division with plants located at Middletown, Ohio and Swainsboro, Georgia.

The Ruberoid Co. has named **Richard W. Henry** as Director of Sales, Industrial Products. Mr. Henry had been manager, industrial insulations since 1962 and in his new post will assume responsibility for sales of Ruberoid's specialized industrial products throughout the firm's national sales market.

Charles L. Sell, Director, Purchases and Traffic for **The Ruberoid Co.,** will assume full responsibility for the company's purchasing and traffic operations. Mr. Sell, recently appointed to this post, succeeds **Kenneth R. MacDonald,** Vice-President—Purchasing, who retired. Mr. Sell joined Ruberoid in 1948 as a traffic specialist and will be headquartered at the company's executive offices in New York City.

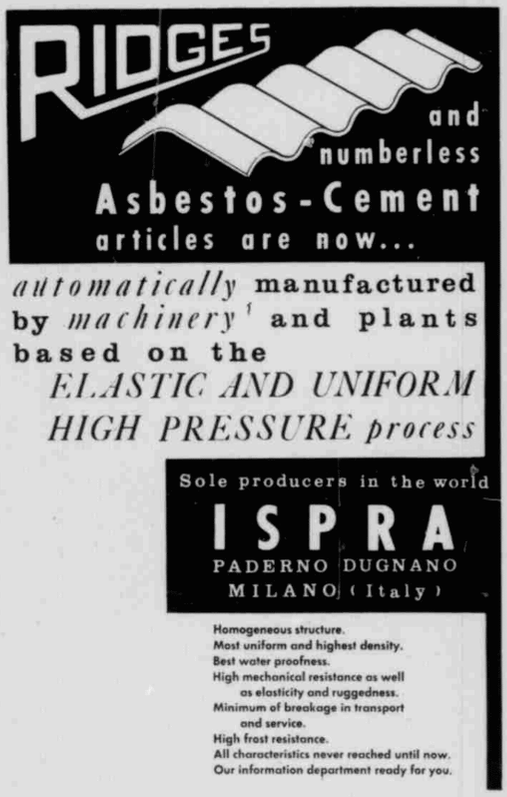
Flintkote—The election of **Donald E. Trimble** as Assistant Treasurer of The Flintkote Company was announced by George J. Pecaro, President. Mr. Trimble, who recently joined Flintkote, will make his headquarters in Flintkote's executive offices at 30 Rockefeller Plaza, New York City.

„ Tropag "

Hamburg —:— Ballindamm 6

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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

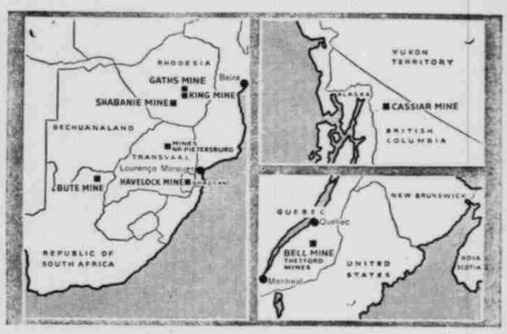
VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(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

asbestos

chrysotile, crocidolite and amosite fibres
from Africa and Canada



Turners Asbestos Fibres Ltd

Faulkner House, Faulkner Street, Manchester 1, England
Cables: VULBESTON, MANCHESTER Telephone: CENtral 0334
Telex: 66560 *A Turner & Newall company*

TN 3/20

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U. S. Rubber—Walter D. Baldwin, Vice President for Marketing, announced the appointment of **J. Robert McMenamin** as Director of Advertising for United States Rubber Company. He joined U. S. Rubber in 1947 and in 1962 became Manager of Advertising and Sales Promotion for U. S. Rubber Tire Company. Mr. McMenamin succeeds **Gregg T. Ward,** who will retire after 40 years of service with the company.

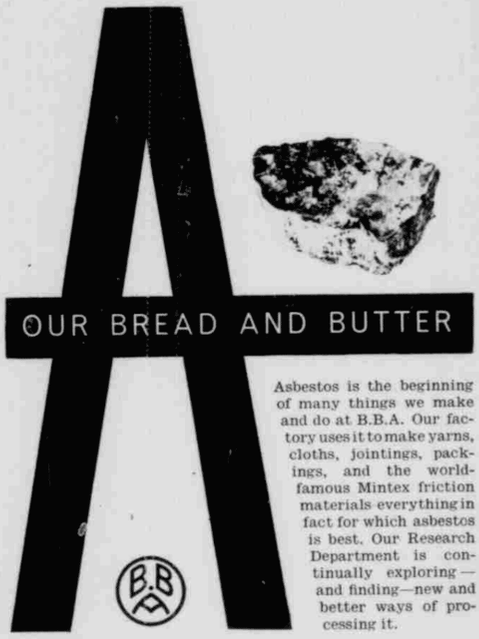
L. J. Barrett has joined the Commercial Development Department of the Textile Division of United States Rubber Company and will be located at the division's New York offices. This announcement was made by C. H. Sigler, Commercial Development Manager.

F. Dudley Chittenden has been appointed to the newly-created post of Vice President—Technical and Manufacturing Staff of **United States Rubber Company.** He will have direct responsibility for such corporate staff departments as research, engineering and industrial relations, and for the operating service departments including traffic, purchasing, management engineering, the company's distributing branch organization and its new management information centers. He will also coordinate at the corporate level all technical and manufacturing activities throughout the world and will serve on the company's operating policy committee.

George W. Wright has been appointed District Sales Manager of the newly established mid-eastern sales district of the Textile Division, **United States Rubber Company.** The new district sales office is located in Reading, Pennsylvania, and among the products which will be handled by the new office are asbestos fabrics and yarns.

H. E. Humphreys Jr. will retire as Chairman of **United States Rubber Company** effective January 31st, 1965, but will continue as a member of the board of directors and a member of its executive committee. Mr. Humphreys has been with U. S. Rubber since 1938.

George R. Vila was elected Chairman of the board and Chairman of the executive committee of **United States Rubber Company.** He will continue to serve as President and Chief Executive Officer. Mr. Vila joined U. S. Rubber in 1936 as a rubber chemicals salesman.



Asbestos is the beginning of many things we make and do at B.B.A. Our factory uses it to make yarns, cloths, jointings, packings, and the world-famous Mintex friction materials everything in fact for which asbestos is best. Our Research Department is continually exploring — and finding—new and better ways of processing it.

British Belting & Asbestos Ltd.

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ASBESTOS PATENTS

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

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

Apparatus For Shaping and Compressing On A Mould Sheets of Plastic Material, Particularly Asbestos Cement, No. 3,118,808. Granted on January 21, 1964, to G. Marchioli and G. Gremigni. An apparatus for manufacturing sheets from an aqueous suspension of asbestos fiber and portland cement comprises a rigid tubular body containing a lower support and an upper support for an inflatable body adapted to press the material into the mould.

Permeable Well Cement, No. 3,119,448. Granted on January 28, 1964, to V. W. Rhoades (assigned to Cities Service Research & Development Company, New York City). A permeable cement filter for use as a screening medium for unconsolidated producing horizons of oil and gas wells is formed from a mixture of 20 to 30 mesh sand, portland cement, asbestos fiber, polyacrylamide gel, and water.

Asbestos Cement Water-Laid Products Characterized By Equal Longitudinal to Transverse Strength Ratio, No. 3,120,465. Granted on February 4, 1964, to R. A. Schneider (assigned to Certain-teed Products Corporation, Ardmore, Pennsylvania). In the production of pipes, paper, sheets, etc., from cylinder type webs formed from an aqueous suspension of asbestos fiber and portland cement, the fiber is orientated by imparting sufficient movement to the slurry solids in the zone adjacent to the mould cylinder (where the major portion of the slurry solids accumulate on the cylinder) to overcome the fiber aligning tendencies of the rotating cylinder mould. The flex strength of pipe formed by this method is enhanced without adversely effecting the bursting strength and without changing the formulation. Savings in raw materials amount to 10 to 20 per cent.

Roofing Product, No. 3,137,100. Granted on June 16, 1964, to N. P. Harshberger. In the manufacture of roofing sheets or slabs having a fair degree of tensile strength and retaining cohesion in its wet, unset state so as to bond to the adjoining surface, a large volume, e.g., 30%, of a low-density filler such as pumice or expanded perlite, is incorporated into the suspension of chrysotile asbestos fiber and portland cement, and the mix de-watered on a screen and optionally subjected to pressure.

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