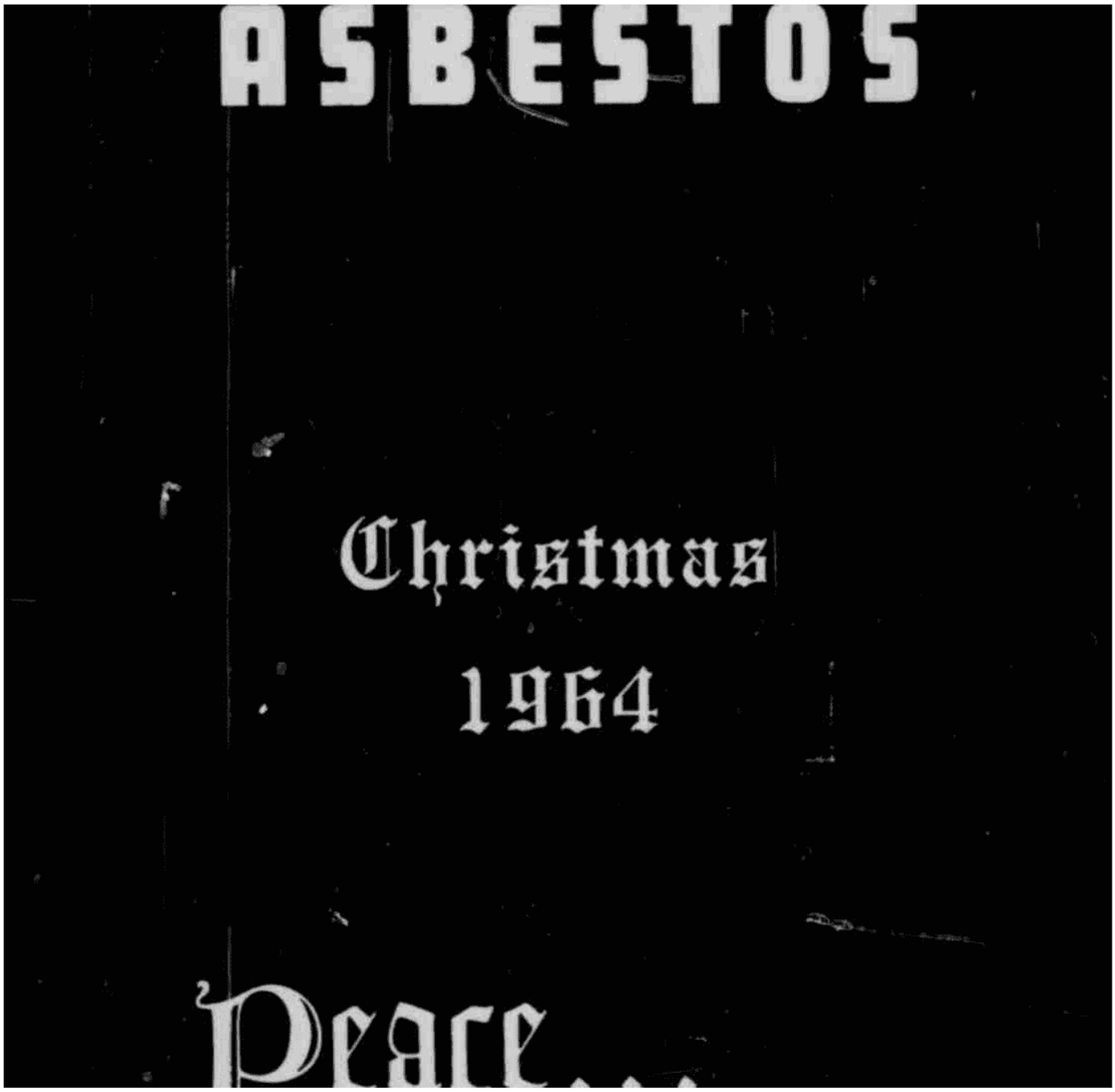


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1964 REVIEW

MISCELLANEOUS

Mineral Fiber Products Bureau—new name of reorganized industry association formerly known as the Asbestos Cement Products Association.

Cape Blue Producers Company (Pty) Limited—registered on February 20th, 1964 with purpose to attain standardization of grades and their nomenclature and to develop the exceptional inherent qualities of Cape Blue fibre.

Pacific Asbestos Corporation—new name of former Jefferson Lake Asbestos Corporation to more closely identify the location of the company's mine and the principal marketing area which it serves.

Heering International (Pty) Limited—new company formed in Johannesburg and will represent as exclusive agents the Bend Asbestos Mine in Southern Rhodesia. This property is owned and operated jointly by Humes Limited and Goliath Portland Cement Company Limited.

Nicolet—Keasbey & Mattison division has been merged into the parent company to provide full benefit of mining, manufacturing, research, product development and sales service.

Bauer Bros. Co.—inaugurated new custom grinding service for Canada's fast growing process industries as part of its major expansion program. Bauer's entire program includes overall building expansion which now houses newly upgraded production facilities, new laboratory, fine grinding department, plus new engineering facilities.

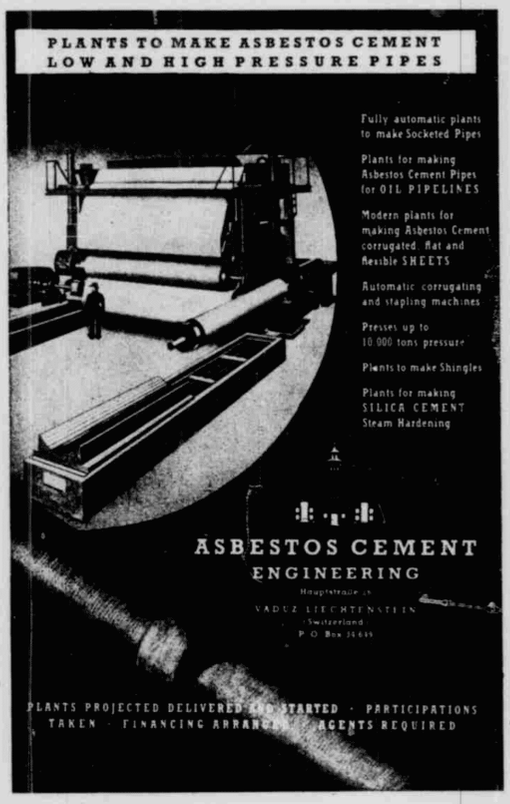
Cape Insulation and Asbestos Products Limited—introduced new methods of processing amosite and crocidolite asbestos fibers in mat form (Noramite Asbestos Mats) readily utilized for plastics reinforcement.

Certain-teed Products Corporation—found Sturtevant Air Separator very successful in reclaiming formerly irreclaimable asbestos-cement pipe waste.

Penge Asbestos Mine—experienced good results in its new dust control methods.

ACQUISITIONS/AGREEMENTS

Baldwin-Ehret-Hill acquired thermal insulation con-



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tract divisions of *Mundet Cork*.

Asbestos Corporation acquired assets of *Murray Mining* and its wholly-owned subsidiary, Keewa Quebec Mines. The corporation also acquired assets of *Johnson's Company* together with its subsidiary company, Johnson's Asbestos Company.

Smith & Kanzler—purchased by *Victor Manufacturing & Gasket Company*.

Nicolet—acquired physical assets of *Protective Papers*.

Asbestos Finance Company—organized and has acquired shares of *Pacific Asbestos Corporation*.

U.A.M.—negotiating with *Johns-Manville* where J-M will license U.A.M. to produce asbestos-cement products by the ACE (Asbestos Cement Extrusion) Process.

Small & Parkes—concluded licensing agreement with *Nisshin Spinning Company Limited*, of Japan, to produce brake and clutch materials.

Smith & Kanzler—signed agreement on SprayCraft asbestos mineral fibre with *Nippon Asbestos*, of Tokyo.

MINES/MILLS/PLANTS/FACTORIES

Hellenic Exploration—exploratory work recommended for assessment of potential of new asbestos mine near Kozani, Macedonia.

Advocate Mines—new asbestos mine and mill at Baie Verte, Newfoundland, officially opened.

United States Asbestos Company—new asbestos mill in Coalinga, California, in full production.

Cassiar Asbestos Corporation—mill in British Columbia completed, operating, and able to produce AY, a new cement grade asbestos fiber.

Havelock Mine—new shaft nearly completed and expected to serve the rest of the life of the mine in Swaziland.

McAdam Mining Corporation — conducting major study of chrysotile asbestos property at Roberge Lake in Canada.

Canadian Johns-Manville—working to detail tonnage on Reeves Township asbestos property, Northern Ontario.

Australia—Merit Oil and Ampol Petroleum exploring asbestos property in Australia.

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Dundee Mines—acquired interest in asbestos area in northern New South Wales, Australia.

Merencor Asbestos Mines—cobbing plant, extension and laboratory completed.

Orangeburg—Flintite asbestos-cement pipe plant at Ravenna, Ohio, officially dedicated.

Johns-Manville—exercised option to purchase manufacturing site in Scotland County, North Carolina, for construction of asbestos friction materials plant.

Ruberoid—ground broken for construction of floor tile plant at Vails Gate, in New York's Hudson Valley.

Asbestos Corporation—planning eventual construction of plant at Asbestos Hill property, Ungava district, Quebec, Canada.

Caribbean Asbestos Products Limited—new factory in Montego Bay, Jamaica, to manufacture asbestos-cement pipes.

Asbestos Cement Pipes Limited—new factory in Drogheda, Ireland, producing pressure pipes for water mains as well as sewerage and drainage pipes.

Ferodo Italiana—started first phase of factory in Mondovi, Italy, for manufacture of linings for automotive industry.

Ferodo Espanola—formerly opened factory in Madrid to manufacture Ferodo brake linings and clutch facings.

U.A.M. (Universal Asbestos Manufacturing Company)—planning establishment of factory in England where ACE and other advanced asbestos-cement building products will be manufactured.

Everite Limited—erecting factory at East London to produce sheet products, constructing factory at Brackenfell to house another pressure pipe plant, and installing additional plants at Kliprivier and Brackenfell.

ASBESTOS MATERIALS

Eel-Slip Pipe Saddles—specially compounded of asbestos and anti-friction ingredients bonded under high heat and pressure. (Johns-Manville)

Thermostone #85—new building sheet based on a new asbestos-cement and cellulose formulation (Johns-Manville).

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Asbestos Honeycomb—used in place of steel for cooling tower fill and drift eliminators. (The Marley Company)

Woodrock—combination of wood, asbestos fibers and portland cement that looks and cuts like wood but weathers like brick or rock. (National Gypsum)

K&M Kolormate—rugged asbestos-cement sheet used to cover countertops at 1964-1965 New York World's Fair and also as curtain wall panels in a Brooklyn, New York, junior high school. (Nicolet)

K&M 466 Sheet Packing—designed for use in refrigeration and air conditioning gasket application. (Nicolet)

Ebonized Asbestos—impregnated monolithic asbestos board composed of selected asbestos fibers and cement specified for Chesapeake Bay Bridge-Tunnel. (Nicolet)

K&M 740 Hy-Swell Sheet Packing—new material designed for use in high temperature gasketing applications. (Nicolet)

Packroll Shelter—asbestos mats sandwiched between fibre glass fabric are part of make-up of thick-walled rigid shelter in form of packroll. (Ontario Research Foundation)

R/M 363—square-plaited braided asbestos packing proved successful in resisting oyster shell slurry on dredge in Tampa Bay, Florida. (Raybestos-Manhattan)

R/M Pyrotex Yarn—new asbestos-phenolic material developed for aircraft, aerospace, and missile applications. (Raybestos-Manhattan)

R/M Polybestos Cloth—when used in safety garments, was proved to provide greater personal protection and more durable than asbestos-cotton garments. (Raybestos-Manhattan)

HSRC-treated asbestos cloth (Heavy Skim Resin Coating)—special sizing which lays the fiber and dresses up the cloth. (Raybestos-Manhattan)

Green Shield — improved flameproofing treatment which leaves treated asbestos textiles as flexible and easy to sew as untreated fabrics. (Raybestos-Manhattan).

Dura-Shake—new siding made of rock hard all mineral composition which offers authentic cedar shake appearance. (Ruberoid)

Duraform—first asbestos-reinforced thermoplastic laminating material. (Turner Brothers Asbestos)

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RETIREMENTS

John M. High — Sales Manager, Insulation Division and Director of Trade Relations, Mundet Cork Corporation.

R. H. Dent—Director, Cape Insulation and Asbestos Products Company Limited and Small & Parkes Limited.

A. S. Runacres—Director, Cape Insulation and Asbestos Products Limited and Andersons Insulation Company Limited (will remain with CIAP as Consultant).

William E. Clark—Vice President and General Manager, Textile Division, United States Rubber Company.

Raymond E. Hess—former Director of Publications Operations, American Society for Testing and Materials (continues as Consultant).

Elmer E. Finck—Director, National Gypsum Company.

Merwin M. Brandon—President, Underwriters' Laboratories, Inc.

Paul H. Townsend—Director, National Gypsum Company.

Dr. Clifford F. Rassweiler—Director and Vice President of Research, Development and Engineering, Johns-Manville Corporation (continues active in corporate management and industrial research field as President of Rassweiler Consultants, Inc.)

R. G. McCoy—Advertising Manager, The Ruberoid Co.

Charles E. Masters—Vice President of Finance and Director, National Gypsum Company.

J. H. Goodwin—Vice President and General Sales Manager, Johns-Manville Corporation.

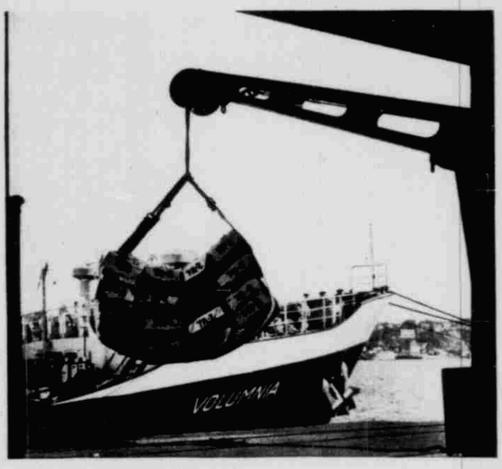
Kenneth R. MacDonald—Vice President of Purchasing, The Ruberoid Co.

Charles D. Borror—Manager, Coalinga Asbestos Corporation.

Alton L. Jones—General Manager, Joplin Insulation Plant, Eagle-Picher Company.

DEATHS

We regret the recording of the passing away of the fol-



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lowing gentlemen and know they will be greatly missed by their family, friends and business associates.

Edward Baliol Scott—Editor. The Mining Journal. December 23, 1963.

Wade W. Hildinger—Vice President of Sales, National Gypsum Company, December 29, 1963.

E. W. Carey—President, Fibreboard Paper Products Corporation, May 19, 1964.

Roger Q. Kyle—pioneer asbestos miner in Arizona, May 20, 1964.

The Marchese Stefano M. Cattanco Adorno (Dr. Cattaneo)—head of Asberit S.A. and Director of Ferodo S.A., Brazil, July 5, 1964.

Alvin M. Ehret, Sr.—founder of Ehret Magnesia Company (now Baldwin-Ehret-Hill), July 15, 1964.

Sir John Grieg Latham — Director, Humes Limited, July 25, 1964.

Don Juan Mari Corominas—Counsellor and Secretary-General, Rocalla, S.A., September 6, 1964.

O. H. Storey, Jr.—Assistant General Sales Manager, The Flintkote Company, September 29, 1964.

I. J. Harvey, Jr.—Director and former Chairman of the Board and President, The Flintkote Company, October 14, 1964.

A. H. Schilling—former Plant Manager, Johns-Manville Corporation, November 12, 1964.

PUBLICATIONS ON ASBESTOS

Asbestos Fundamentals (book, by Hans Berger)—offers comprehensive survey of the most important facts and findings on asbestos.

Asbestos-Cement Machinery (book, by Herbert Hiendl)—English edition, explains design and use of latest machines and equipment for the asbestos-cement industry.

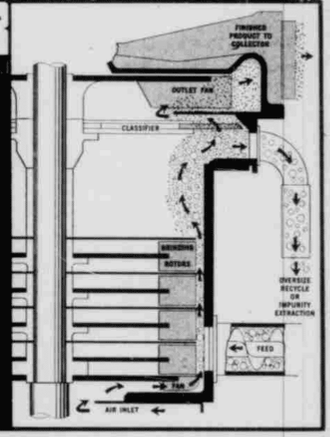
The Story of Asbestos (by E. A. Woolnough)—Natural Resources Board of Southern Rhodesia.

Method for Determining Asbestos Dust Concentration—Asbestos Textile Institute.

Asbestos-Asphalt Report—National Bituminous Concrete Association.

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Canadian Chrysotile Asbestos Classification—reinstatement of Fibre Grade 5-Z.

Precoat Filter Aid—Metate Asbestos Corporation.

Jeffrey Skipway/Operation and Maintenance (paper by J. M. Fletcher)—Canadian Johns-Manville Company Limited.

Canada's Mineral Production, 1963 (Preliminary estimate—Dominion Bureau of Statistics.

Asbestos in 1963 (annual preliminary estimate)—U. S. Bureau of Mines Mineral Industry Survey.

The Asbestos Industry in 1963 (final)—U. S. Bureau of Mines Mineral Industry Survey.

Canada's Asbestos Products Manufacturers, 1961 (annual, Catalog No. 44-203)—Dominion Bureau of Statistics.

Asbestos, Volume III—Natural Resources Development Council.

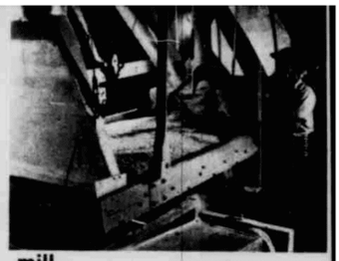
Asbestos Chapter (preprint from 1963 Minerals Yearbook)—U. S. Bureau of Mines.

"ASBESTOS" has, once again, recorded briefly the various events and happenings within the Asbestos Industry. Those of our readers who have perused this annual Review will note that this year it has been greatly condensed. This was deemed necessary to allow ample printing space for more informative items in this and future December issues. In line with this, the executive and managerial promotions that were announced in "ASBESTOS" throughout the year were too numerous to mention in the Review, but we wish all concerned success and happiness in their new posts.

As you know, "ASBESTOS" and its staff are engaged in a continuing effort aimed at assistance and service to you, the members of the Asbestos Industry. If you have information to offer which you think should be filed in our permanent and ready-reference files or published in our pages, you are sincerely urged to let us know. This is your magazine and "ASBESTOS" can be a good service to the Industry only with your assistance, constructive criticisms and interest.

We, the staff of "ASBESTOS", take this opportunity to extend our best wishes for the holiday season and a healthy, prosperous and progressive 1965. May peace abide throughout the world.


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GERARD A. PICHE

Assistant Production Engineer—Canadian J-M

One Canadian Johns-Manville man has not one, but four asbestos mines in two countries to worry about. The man is Canadian J-M's Assistant Production Engineer, Gerard A. Piche. Working for the company's Asbestos Fibre Division, he is concerned with coordinating mine and mill production in Asbestos, in Ontario, at the Advocate Mine in Baie Verte, Newfoundland, and at the Coalinga Mine in southwest California. His job is to make sure there is always enough ore for the mills in these areas to process, not only for the year ahead but for some time to come. His planning work is based on forecasts made by the sales department of the amount of fibre they expect to sell—in the near and distant future. He then has to make sure that this production demand can be met at each of the mines and where the ore is to come from. His job, like that of all other people in the industry, depends on customers' needs. "And customers are growing tougher," Gerry Piche asserts. "Their demands are growing more exacting and the tolerances in their specifications are just down to a hair-breadth. In my mine plans I have to keep this in mind all the time."

Gérard Piche has been in this job for the past three years. Previously he worked for the Jeffrey Mine engineering department where he was responsible for the preparation of mining plans. Before that he was responsible for much of Canadian J-M's local construction and engineering work.

A native of Asbestos and a mining engineering graduate from Laval University, Gerry Piche spent his summers working in the open pit and mill. "By the time I graduated, I knew quite a lot about the operations and that's a big help when you come straight from university to an operating job," he said.

Gerard Piche makes his home in Asbestos, is a director of the Asbestos Caisse Populaire and an active member of the local Junior and Senior Chambers of Commerce.



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Coleraine Centenary

For Mayor Edmond Boilard of Coleraine, Canada, 1964 is an important and exciting year. Three years before the rest of Canada, the town is celebrating its 100th birthday.

A century ago, settlers from Coleraine in County Londonderry, Northern Ireland, moved into the area and gave the township its present-day name.

"I bet the settlers of 100 years ago never dreamed Coleraine would become one of the world's foremost asbestos mining centers," stated Mayor Boilard, who is also a machine shop foreman at the Normandie Mine.

While the names of towns like Asbestos and Thetford Mines are well-known, he adds, few people realize that two large mines, the Normandie and Lake Asbestos, are located inside municipal limits.

To celebrate its 100th birthday, Mayor Boilard has had erected, in the town's main intersection, a monument commemorating the early settlers from Ireland. To symbolize the town's present-day prosperity, the monument is flanked by two huge two-ton blocks of asbestos, one from Lake Asbestos and the other from the Normandie Mine. According to the Mayor, 'One of the troubles in Coleraine stems from the prosperity of the industry. Most of the 2,000 people here work for the mines and they make good money. But, with the recent merger, there are fewer jobs available in the asbestos mines." That's why Coleraine is busy seeking a new industry that could move into town and take up the employment slack by hiring 100 men. There's no shortage of skilled help in the town, Mayor Boilard points out. "We already have a furniture shop, a clothing manufacturer as well as a brick-making plant. Our services are excellent and the tax level is low. With a new industry, Coleraine could reach full employment. And, what better 100th birthday present could we all have than that?"

During the decade from November 1st, 1953 through December 31st, 1963, the United States spent $14-million for development of asbestos deposits in Greece.

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Pacific Coast Asbestos Market

Prior to the post-World War II industrial boom, the market for asbestos on the Pacific Coast was relatively limited. Most of the plants manufacturing asbestos products were located in the industrial areas of the eastern United States. The asbestos was, and still is, primarily obtained from the many mines in Quebec, Canada.

Since World War II, however, several new plants that manufacture asbestos products, have been constructed in California, and older ones have been enlarged, so that asbestos consumption has risen steadily in this state. The principal products manufactured in California that contain significant amounts of asbestos are asphalt and vinyl tile, asbestos-cement products, fibrated asphalt emulsions and brake linings.

Asbestos consumption in California alone amounted to more than 110,000 tons in 1963. Comparable growth of the industry has taken place in other regions of the nation where fiber from California deposits would be competitive (in terms of freight rates) with that from Quebec. These include the industrial areas centered around New Orleans, Louisiana, with annual consumption of about 100,000 tons of asbestos, and the Far East, especially Japan, with a potential market of perhaps 150,000 tons of fiber per year.

The types of asbestos used in all of these areas are the medium and short fiber grades of chrysotile that can be produced in abundance in California.

The economic competitive aspect of asbestos currently being produced in California is indicated by the fact that large shipments have recently been made from California to such diverse areas as New Jersey, New Orleans and Japan.

A. H. SCHILLING, 59, died November 12th, 1964, 11 days after retiring from *Johns-Manville Corporation* as Plant Manager for Transite pipe in Stockton, California. Mr. Schilling had been with J-M for 40 years and was one of the developers of Transite asbestos pipe.

CONTRACTORS

*save money on "BlueMud"!**

New Carey-Canadian 7M-90 has the following advantages • Trowels easier—reduces labor costs • Whiter finish • 15% less shrinkage • 10% more dry coverage • Hard, non-dusting surface • Competitively priced to save you money.

*Trade vernacular for 7M Asbestos Shorts

Note these laboratory-proven differences in shrinkage and whiteness between Carey-Canadian 7M-90 and a well known competitive 7M.



	Carey 7M-90	*Brand X*
Shrinkage (volumetric)	33.7%	44.3%
Wet Coverage (1-1 ratio)	28.5 Bd. Ft.	27.7 Bd. Ft.
Dry Coverage	18.9 Bd. Ft.	15.5 Bd. Ft.

Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 15095, Lockland, Cincinnati 15, Ohio, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P.Q., Canada.

Carey®

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AUTOMOBILE SALES

SEPTEMBER 1964—The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics for September 1964 of motor vehicle factory sales from plants in the United States: passenger cars 581,875, trucks and buses 119,051; total for September 1964 was 700,926 compared to 598,825 in September 1963. Total motor vehicles for the first nine months of 1964 amounted to 6,974,975 compared to 6,399,679 for the same period last year.

ARMSTRONG CORK has developed two new contact adhesives through a special compounding technique that provides high strength properties at low cost. The new adhesives are designated *D-500* for brushing or spraying, and *D-501* for trowel, brush or roller application.

D-500 is a synthetic rubber-resin adhesive that has the static load, heat resistance and weathering and aging properties necessary for bonding plastic laminates, desk top linoleum, galvanized steel and porcelain enameled steel to a variety of substrates such as tempered hardboard, cement asbesfos board, insulating fibreboards, wood and particle board. It also is designed for bonding vinyl-asbestos and rubber flooring tiles to various bases in the manufacture of pedestal floors.

D-501 is an air drying synthetic rubber-resin compound designed for bonding plastic laminate sheets to a wide variety of base materials.

POLYREZ ®
Phenolic & Cashew Resins
Cashew Dusts & Polymers
POLYREZ COMPANY, INC.
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IF ALL YOU WANT IS FIRE RESISTANCE, USE ANY ASBESTOS.

But if you want the lightest asbestos fabrics you can get, use Asbeston.® Asbeston is far stronger for its weight than ordinary asbestos fabrics. And it's much lighter and easier to work with. For details on our full line of light and heavy Asbeston fabrics, yarns and tapes, write Textile Division, U.S. Rubber, New York 20, N.Y. (We'll also give you all the engineering help you want.)

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THE HEAT RESISTANCE

of J-M Asbestos Fibre can put your product in the high-temperature zone



Many industries have found asbestos fibre a mineral filler of wide and diverse applications because of its many unique properties . . . particularly its exceptional heat resistance. A standard ingredient in many high-temperature applications... flame-proof J-M asbestos fibre resists loss of tensile strength during exposure to high temperature.

Other important properties of J-M asbestos include high tensile strength (greater than an equal thickness of ingot of wrought iron) . . . extreme fineness (a bundle of 1500 asbestos fibres is finer than one human hair) . . . and high bulking action . . . any of which can improve your product. For free literature, write to Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P. Q., Canada, or to Johns-Manville Asbestos Fibre Sales, Research and Engineering Center, Manville, N. J.



PLASTICS such as distributer heads have greater heat resistance and dimensional stability, when made with J-M asbestos fibres.



FLOOR TILE has more strength, better processing characteristics and more "give" without cracking with J-M asbestos fibres in the formula.



ASBESTOS-CEMENT PRODUCTS are structurally stronger, more flexible and have more resistance to impact when they contain J-M asbestos.

JOHNS-MANVILLE

THE NAME TO THINK OF FIRST FOR ASBESTOS FIBRE

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BUILDING

OCTOBER 1964—The value of new contracts for future construction amounted to $4,029,251,000 in October, it was reported by F. W. Dodge Company, a division of McGraw-Hill, Inc. This figure is 7% less than the peak year-ago volume of $4,313,138,000, but at the same time represented a 4% seasonally adjusted advance from September 1964. A breakdown of the total October figure, with percentage changes from October 1963, is as follows: nonresidential building, $1,425,246,000, up 7%; residential building, $1,701,813,000 down 16%; and, nonbuilding construction, $902,192,000, down 5%.

By the end of October 1964 the cumulative value of all construction contracts had passed the $40-billion mark to hold a 4% lead over the ten-month total for 1963.

J-M THERMOSTONE #85—Johns-Manville has introduced a new building sheet called Themostone #85, designed for use by architects and builders and also will be sold through building supply dealers. Thermostone #85 is based on a new asbestos-cement and cellulose formulation developed by J-M. The result is a modern, versatile building sheet that handles and works like wood but will wear like stone. It is intended for commercial, industrial, institutional, and residential use in both exterior and interior applications. The new building product combines the best qualities of wood, plywood and asbestos cement, is laminated for extra strength, flexibility and ease of handling, has been hydraulically repressed for uniform density, toughness and smoothness, and has been steam-cured for dimensional stability, uniform color and freedom from free alkali. Both sides of Thermostone #85 are smooth which provides great adaptability for a wide range of uses. The Sheet is the smoothest of any Type-U asbestos-cement sheet available and is perfectly flat. Thermostone #85 is light tan in color and will weather almost to white. It is easy to paint without priming with ordinary exterior grade alkyd or latex paint, easy to cut with ordinary abrasive power tools, and easy to nail without predrilling.

HIGHEST GRADE
CHRYSOTILE
ASBESTOS FIBRES

FLINTKOTE®



Using modern mining methods in our fully integrated plant at Thetford Mines, Quebec, Flintkote produces the finest custom engineered chrysotile asbestos fibres for your discriminating requirements. Always at your service to give you technical assistance, and prompt delivery.

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30 Rockefeller Plaza
New York 20, N.Y.

IN CANADA —
Flintkote Mines Ltd.
Thetford Mines
Province of Quebec

The Flintkote Company of Canada Ltd.
30th St., Longbranch
Toronto, Ontario

IN ENGLAND —
The Flintkote Company Ltd.
Adam House, 1 Fitzroy Square
London W-1, England

Manufacturer Of
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RAYBESTOS-MANHATTAN, INC. showed a full-scale Polaris Missile at the Manufacturers' Association of Lancaster County, Pennsylvania, "Industry on Parade" exhibition October 20th through 23rd, 1964. Also exhibited in the booth were reinforced plastics, Teflon products, asbestos textiles, packings and gaskets, and friction materials. The show was opened to the public without charge and 71,000 people passed through the exhibit.

JEFFREY SKIPWAY/OPERATION AND MAINTENANCE—This is a very informative paper by J. M. Fletcher, Plant Engineer, Jeffrey Mine, Canadian Johns-Manville Company Limited, Asbestos, Quebec, Canada. It covers the major operating and maintenance problems encountered since start-up of a 30,000 tons per day ore skipway, and the steps taken to overcome them.

"ASBESTOS" will be glad to lend its copy to interester readers.

ORANGEBURG—A new 8-page, 2-color catalog describing the Flintite line of asbestos-cement air duct for perimeter heating and cooling systems installed in concrete slab floors has been announced by Orangeburg Manufacturing Company, a division of *The Flintkote Company*. This catalog, No. AC62AD-1, presents the properties, uses and advantages of Flintite air duct and tells how it meets all specifications of The National Warm Air Heating & Air Conditioning Association for Type 5 materials.

ALTON L. JONES, General Manager of the Joplin Insulation Plant, retired from the Eagle-Picher Company effective September 1st, 1964. He joined the company in 1935 as Joplin Plant Manager, but soon moved to the General Headquarters from which point he supervised the growth of the industrial Plant operation. Mr. Jones had the responsibility of design and construction of the primary diatomaceous earth plant near Reno, Nevada. His plans for the future include a limited amount of consulting engineering work of a non-competitive nature to Eagle-Picher Company.

ARIZONA ASBESTOS

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MINES AND MILL IN GILA COUNTY

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MARKET CONDITIONS

GENERAL BUSINESS.

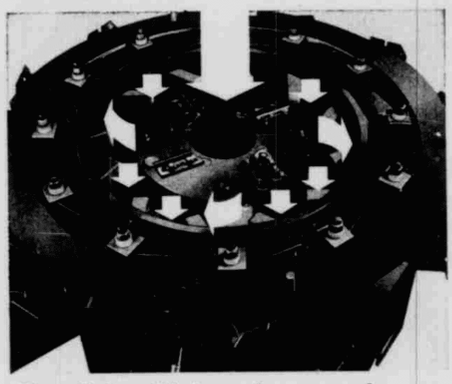
General business continues good. The avoidance of a railroad strike which, undoubtedly, would have caused a serious slowdown in many lines was decidedly encouraging, but the effects of the General Motors strike are just being reflected in business statistics and production by Ford is hampered by another labor dispute. Despite these temporarily unsettling factors and the threat of a steel strike, predictions are for a continued healthy economic situation, probably extending through 1965. The stock market, in reaching new, all-time highs, indicates a basic confidence, on the part of investors, in continued good business.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during October 1964 totalled 114,818 tons, an increase of 2,523 tons or approximately 2% over the same period last year. Year to date shipments at 984,887 tons exceed the same period 1963 by 56,884 tons or approximately 6%.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. In spite of the slowdown of automobile production as a result of strikes, the Asbestos Textile Industry has continued to operate at a high rate of production. With the return of workers to the assembly line, the high demand for automotive asbestos textiles has resumed and is expected to give impetus to new records for 1964. The Industry expects sales for the balance of 1964 to be maintained at the pace established for the first three quarters.



Simplicity fibrizes longer, cleaner fibres faster with far fewer fines

Simplicity's D'centegrator fibrizes so thoroughly that the longer fibres are not "dirtied". The break-up action is pictured above schematically (our asbestos fibrizers actually have 12 bars). On-the-job performance also indicates a higher recovery rate and lower percent of fines. Both lower initial and maintenance cost make this 60 t.p.h. unit (2" cubical feed) an outstanding producer. Write or call about a test.



Model 24 Asbestos D'centegrator

48

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ENGINEERING COMPANY
Durand 18, Michigan

OTHER MINING EQUIPMENT: Vibrating Screens, Feeders, Grizzly Feeders, Scalpers, Crushers and Conveyors.

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Asbestos Brake Lining. The present situation of the market for this material is good and this condition should continue during the coming months.

Asbestos Filter Fiber. The market for low iron filter fiber is very good and plans are underway to increase production at mines in Arizona by at least 10% to fill current orders.

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

ASTM—Committee Week and Spring Meeting of the American Society for Testing and Materials will be held at the Statler Hilton Hotel in Cleveland, Ohio, from February 8th through 12th, 1965.

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Greater durability — Uniform quality — Rapid delivery

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STAFFORDVILLE, CONNECTICUT, U.S.A.

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PRODUCTION

Canada—The Dominion Bureau of Statistics has issued the following for the month of SEPTEMBER 1964 in short tons: Producer's Shipments of asbestos totaled 135,489 (Quebec—117,724 and Newfoundland, Ontario and British Columbia—17,765). Total shipments for September 1963 were 110,769.

Republic of South Africa—The Department of Mines has issued its Quarterly Information Circular for the 2ND QUARTER 1964 containing the following statistics on asbestos: Production totalled 54,488 short tons (Amosite — 19,715, Chrysotile — 9,238, Cape Blue — 22,715, and Transvaal Blue — 2,820).

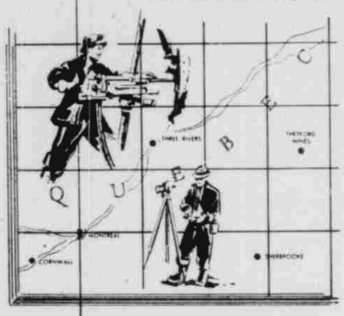
Southern Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos: SEPTEMBER 1964—Production 12,782,08 short tons, valued at £571,-670.00.06.

Everite Limited—According to the annual report of the directors of Everite Limited, the 43.4% interest it has in **Asbestos Investments (Pty) Limited** remained unchanged during the year ended June 30th, 1964. Fibre prices reached their lowest levels during the year but present indications are that they should improve during the next calendar year. Demand for all fibres marketed by the group increased during the year with a consequent reduction in stocks. The group produced 29.148 tons of Cape Blue, and 28,297 tons of chrysotile asbestos during the year.

The confidence of the company in the growth of the economy is such that they have decided to increase capacity by erecting a third factory at East London to produce sheet products, installing additional plants at Kliprivier and Brackenfell factories, and constructing a new pipe factory at Brackenfell to house another pressure pipe plant. Equipment for these new plants has already been ordered.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — JULY 1964

Unmanufactured Asbestos:	Short Tons
Amosite, Crude—Republic of South Africa	1,583
Crocidolite (Blue), Crude—Rep. of South Africa	2,046
Chrysoile, Crude—Republic of South Africa	65
Rhodesia & Nyasaland	963
Chrysotile, Spinning Fibres—Canada	857
Chrysotile, Other—Canada	49,282
Republic of South Africa	5
Rhodesia & Nyasaland	458
Asbestos, Other—Canada	3,513
United Kingdom	20
Rhodesia & Nyasaland	65
Valued at: $6,052,291	58-857

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes, Fittings	7,814,637	$407,962
Asbestos-Cement Articles, Other	1,510,310	130,930
Asbestos Yarn, Rope, etc. & other		78,095
		$616,987

Imports By United Kingdom

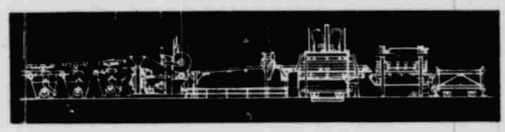
(Published by Reuters) — SEPTEMBER 1964

Raw Materials	Tons 2,240 lbs.
From: Republic of South Africa	3,048
Basutoland, Bechuanaland & Swaziland	1,372
Rhodesia & Nyasaland	3,506
Canada	8,129
Other Commonwealth Countries & Irish Rep.	...
Foreign Countries	20
	16,075

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287 Delmenhorst/Germany
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Tel. 45 91 / Telex 024 4874

Exports From U.S.A.

(Figures by Bureau of the Census) JULY 1964

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Canada	30	Australia	58	Australia	50
Mexico	40	India	320	Canada	60
Japan	10	Japan	139	Israel	44
	—	Mexico	49	Japan	504
	80	Viet-Nam	178	U. Kingdom	22
			744	Viet-Nam	89
				W. Germany	51
				Other Ctys.	11
					831

Total Unmanufactured Asbestos..1,655 Valued at..$211,704

Manufactured Asbestos Goods:	Production	Value
Cement & Pipe Covering ..... Lbs.	718,372	$ 156,965
Textiles & Yarn ..... Lbs.	59,998	54,882
Packing ..... Lbs.	194,705	206,791
Clutch Facing ..... No	126,424	138,494
Brake Lining (Mld. & S.Mld.) ..... Lin. Ft.	96,861	61,393
Brake Lining, Other ..... Lbs.	554,974	377,484
Construction Material ..... Lbs.	2,396,737	297,559
Asbestos Manufactures—Other	..	90,524
		$1,384,092

Exports From Republic of South Africa

(Quarterly Information Report—Dept. of Mines) 2nd Quarter 1964

	Short Tons	Value
Amosite	19,991	R1,993,489
Chrysotile	7,429	591,295
Cape Blue	26,116	3,508,873
Transvaal Blue	3,472	407,031
Tremolite	..	..
	57,008	R6,440,688

Cyprus asbestos exports for the year 1963 amounted to 13,460 tons valued at £764,985. This compares with year 1962 statistics of 13,879 tons valued at £800,319.

RIDGES and numberless Asbestos-Cement articles are now...

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

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Homogeneous structure.
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High mechanical resistance as well as elasticity and ruggedness.
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Exports From Canada

(Published by Dominion Bureau of Statistics) AUGUST 1964

Unmanufactured Asbestos:	Crude S. Tons	Milled S. Tons	Shorts S. Tons
United States	..	17,642	36,279
United Kingdom	..	3,570	5,205
South America	..	3,092	526
Central America & Mexico	..	1,754	382
Europe	18	15,906	7,511
Japan	7	2,906	4,630
Other Countries	..	3,439	1,890
	26	48,309	56,423

Total Unmanufactured Asbestos..104,758 Valued at..$12,227,831

Manufactured Asbestos Goods:

Asbestos Brake Linings Facings	$ 25,811
Asbestos-Cement Building Materials	173,038
Asbestos-Cement Products, Other	16,461
	$ 215,310

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

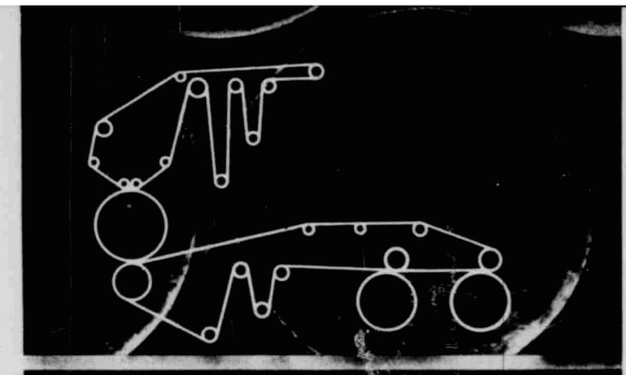
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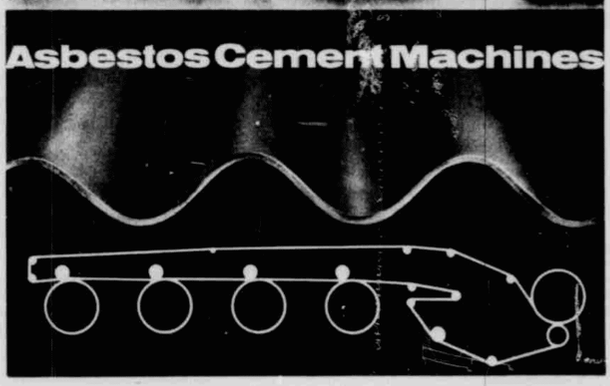
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INDUSTRY NEWS

HAPPY BIRTHDAY

H. F. Allen, Chairman, Bell's Asbestos and Engineering (Holdings) Limited, Slough, Bucks, England, December 18.

Andrew S. Halley, Senior Vice President, Fibreboard Paper Products Corporation, San Francisco, Calif., December 18.

John A. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, December 18.

George J. Pecaro, President & Chief Executive Officer, The Flintkote Company, New York City, December 20.

Harry C. Redstone, Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.

Edwin E. Hokin, President, Unarco Industries, Inc., Chicago, Illinois, December 21.

Robert L. Clark, Treasurer & Chairman, The Clark Asbestos Company, Cleveland, Ohio, December 22.

Joseph J. Kelly, Secretary-Treasurer, Western Asbestos Company, San Francisco, California, December 25.

J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.

Arthur H. Velleman, President, Ovimpex, Inc., New York City, December 28.

M. J. Warnock, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.

Fred A. Mett, President, Powhatan Mining Corporation, Baltimore, Maryland, December 29.

Philip S. Nash, Vice President, Unarco Industries, Inc., Chicago, Illinois, December 31.

Vincent W. Drumb, Industrial Relations Representative, The Ruberoid Co., New York City, January 2.

Robert G. Beldam, Chairman & Managing Director, Beldam Asbestos Company Limited, Hounslow, England, January 3.

Stephen Derek Hungerford Pollen, Deputy Chairman, The Cape Asbestos Company Limited, London, England, January 4.

William L. Keady, Director, Fibreboard Paper Products Corporation, San Francisco, California, January 5.

Rupert St. George Riley, Director, The Cape Asbestos Company Limited, London, England, January 6.

M. E. McCrosson, Vice President—Textile Division, The Russell Manufacturing Company, Middletown, Connecticut, January 7.

Harold F. Lundby, Advertising Manager, The Ruberoid Co., New York City, January 8.

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

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

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H. K. Porter Company, Inc. has appointed **Roy A. Hunt, Jr.** as a Porter Director. Mr. Hunt is a Vice President of the Mellon National Bank and Trust Company.

Flintkote—George J. Pecaro, President, announced the election of **James D. Moran** as a Director of The Flintkote Company. Mr. Moran joined Flintkote in 1950 and is Vice President of the company and General Manager of the Flintkote Division of the company, a post he has occupied since January 1963.

Johns-Manville—P. A. Martinson, Vice President and General Manager of the Celite Division, Johns-Manville Corporation, has announced the appointment of **Melville P. Liverance** to the newly established position of Manager, Market and Sales Analysis for the Celite Division. J-M's Celite Division produces a variety of materials for industrial applications based on diatomaceous earth, including filter aids, cement additives, extender pigments and flatting agents for paints, chromatographic supports, and many others.

National Gypsum—The promotion of a National Gypsum Company production manager to vice president of the Huron Portland Cement Company, a subsidiary, prompted a series of personnel changes. **Robert E. Seifres** has been named Vice President, of Manufacturing of Huron Portland, headquartering in Alpena, Michigan, and has been succeeded as Production Manager of East Coast gypsum plants by **Edward J. Killian; Alexander Dolgos** was transferred to head the Baltimore, Maryland, operation; and, **Fraser T. Gillan** was promoted to Plant Manager, Portsmouth, New Hampshire.



PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

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THE PROVEN NEEDLED FELTS FOR A LOWER REJECT RATE

They last longer and start faster . . . thus improving production and reducing felt cost.

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As of December 10, 1964

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

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 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
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, 1964) 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
(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

asbestos

chrysotile, crocidolite and amosite fibres for:

Asbestos-Cement



Friction Materials







Insulation Materials

Asbestos Textiles

Turners Asbestos Fibres Ltd

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

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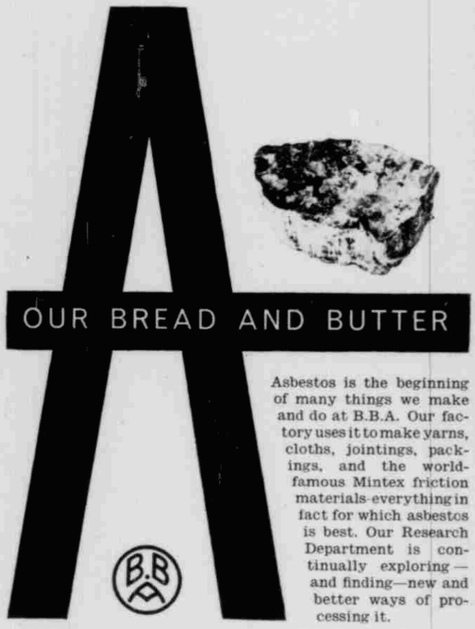
Humes Limited has appointed **Stewart Pinniger** to the Board of Directors to fill the vacancy resulting from the death of **Sir John Latham.** Mr. Pinniger has been Chairman of the Directors of Standard Steel Pty. Limited, a subsidiary of Humes Limited since 1955 and is Architect for Messrs. Hugh Peck and Partners.

Pacific Asbestos Company—The United States Agency for International Development purchased $100,000 worth of asbestos fiber from the Pacific Asbestos Company which will be sent to the Republic of Korea under the foreign aid program. Manager Robert Prince said the order was one of the largest recently received from the Federal government.

Carey—The Philip Carey Manufacturing Company has appointed **J. W. Huppertz** as Sales Manager, Industrial Paper Products. Mr. Huppertz will headquarter at the company's General Offices in Cincinnati, Ohio and will be responsible for the sales and promotion activities of Carey asbestos papers, millboard, special organic felts and industrial mineral wool felts. He joined Carey's Cincinnati District Sales Office in 1956 and has been Industrial Sales Representative in Cincinnati-Dayton, Ohio area; Chicago, Illinois; and, Columbus, Ohio.

John B. Montgomery (Major General, USAF Reserves) has been elected to the Board of Directors of **The Philip Carey Mfg. Co.** After resignation from active service in 1955, General Montgomery was associated with American Airlines, General Electric Company, Weston Instruments, Inc., and Schlumberger Limited.

ASBESTOS FIBRES
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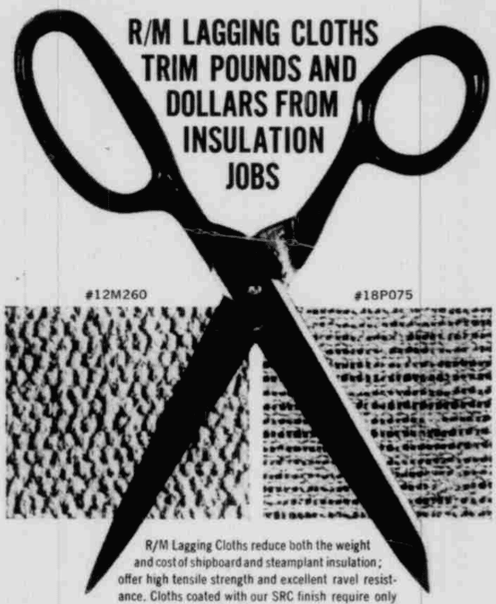
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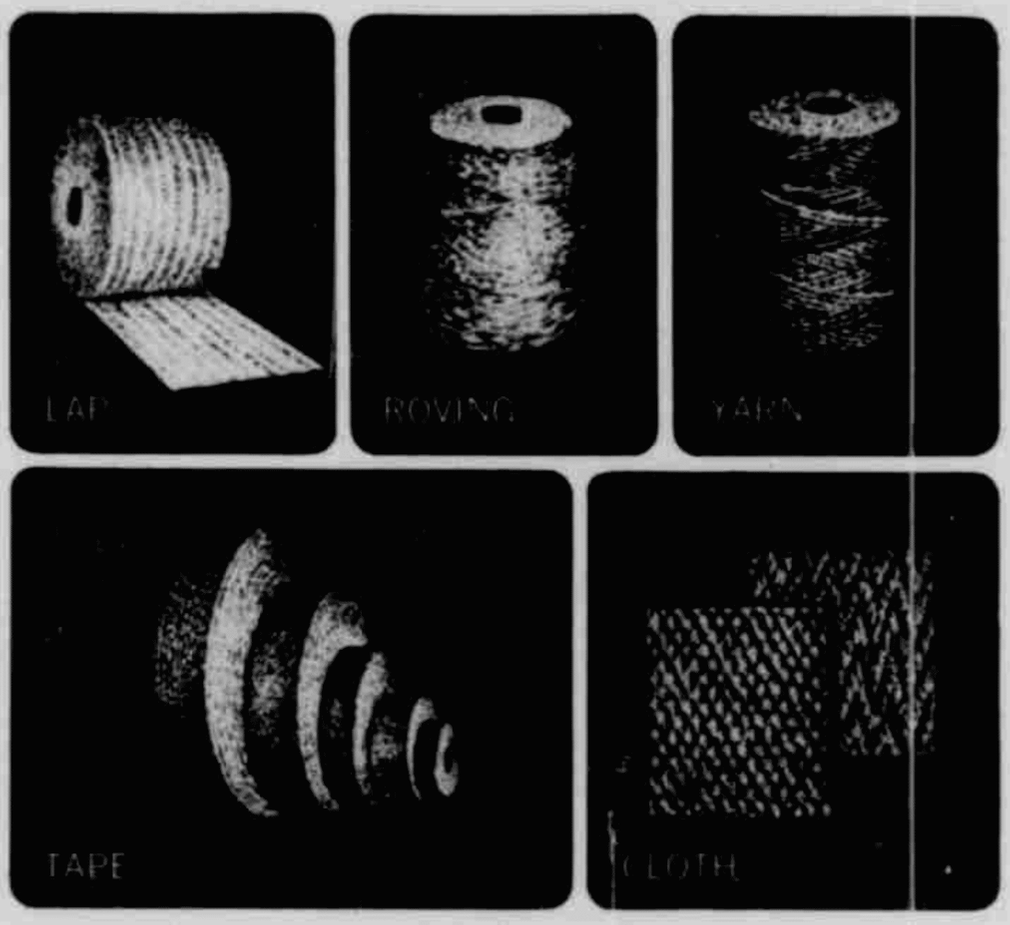
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