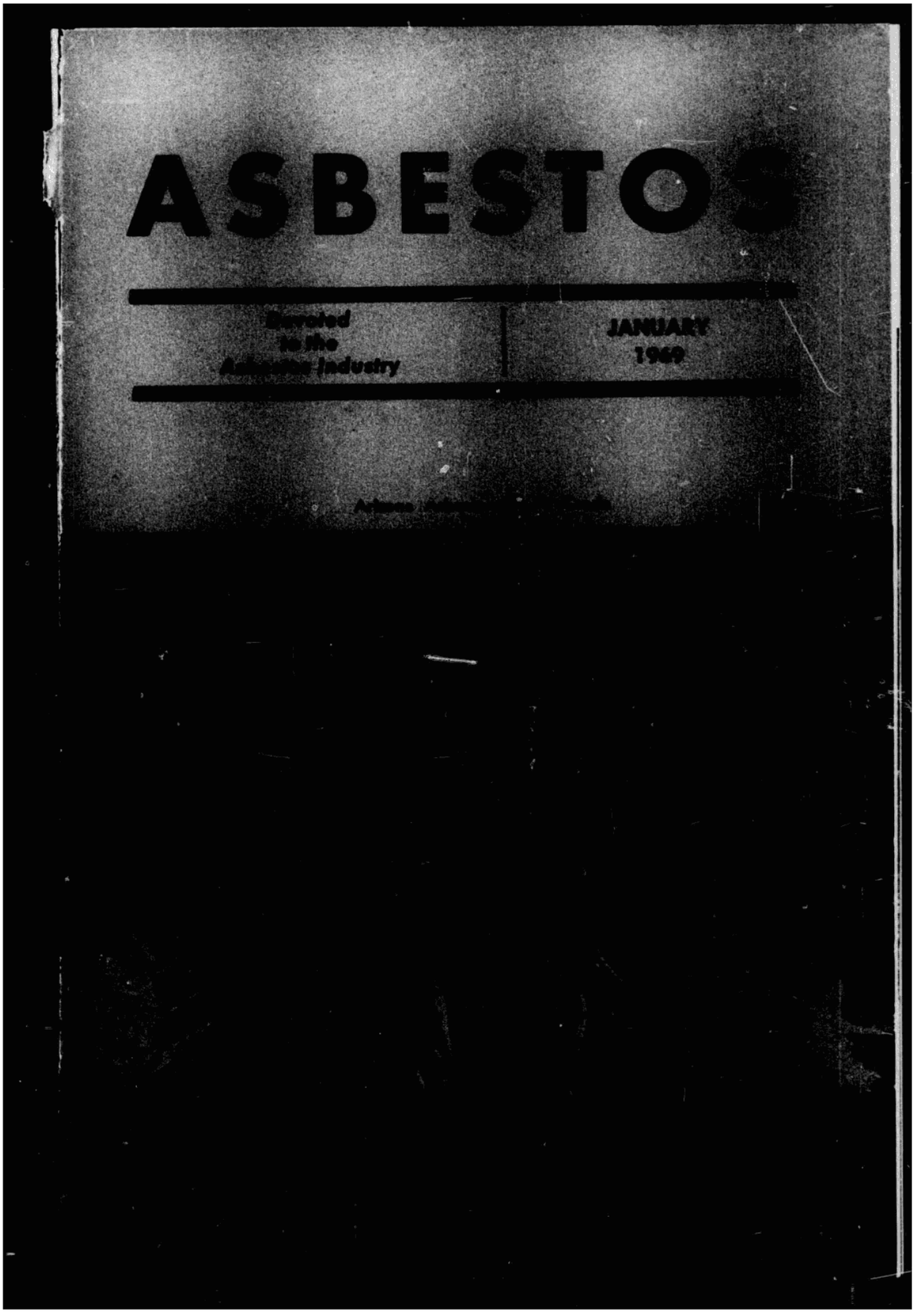
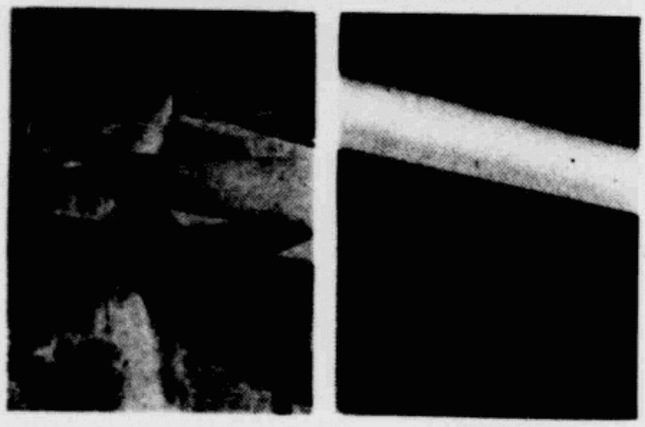

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RM

ASBESTOS TEXTILE DIVISION

RAYBESTOS-MANHATTAN, INC.

Manheim, Pa. 17545

ASBESTOS

VOLUME 50 JANUARY 1969 NUMBER 7

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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ASBESTOS is indexed regularly by Engineering Index, Inc.

PROPRIETOR: Stover Publishing Company

EDITOR: Doris M. Fagan PUBLISHER: Carrell J. Stover

SUBSCRIPTION RATES—United States, $3.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 25 cents each; Back Copies, 35 cents each; payable in U.S. Funds to:

ASBESTOS, 131 North York Road (P. O. Box 471)
Willow Grove, Pennsylvania 19090 Telephone: 215-659-0134

Second Class Postage Paid at Willow Grove, Pennsylvania, U.S.A.

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GREETINGS TO THE ASBESTOS INDUSTRY

J. W. Weber, President
American Asbestos Textile Corporation

1968 has been a good year for the Asbestos Textile Industry. All our mills in the U.S.A. and abroad operated at peak capacity.

American's confidence in a continuing increase in demand for asbestos textiles was reflected in our decision to build a new textile plant near Quakertown, Pennsylvania, and enlarge, for the second time, the facilities of our foreign affiliated company. We were most happy to help satisfy the large 1968 demand for asbestos textiles from our new mill.

We are grateful for the opportunity, through **ASBESTOS**, to greet our many friends and express our best wishes for a happy holiday season and a prosperous New Year.

W. W. Oughtred, President
Asbestos Corporation Limited

It is with pleasure that I accept this opportunity, through the kindness of **ASBESTOS**, to convey to all our friends in the Asbestos Industry, season's greetings from the Management and staff of Asbestos Corporation Limited.

The past year has been a busy one for us and we have been hard pressed to meet the demand for our asbestos fiber. Efforts to improve the quality of our products and at the same time increase production will continue in 1969, which we anticipate will be another active year.

R. H. Dent, Chairman
The Cape Asbestos Company Limited

It is with pleasure that I again take this opportunity of extending Christmas greetings to friends all over the world.

The past year has seen further progress in the Asbestos Industry and, in spite of political uncertainties, prospects in most parts of the world for 1969 indicate a continued increase in output of both raw fiber and products based upon it.

The emphasis must remain upon the need for the improvement of technological and management skills and The Cape Asbestos Company is continuing to devote much effort to these fields.

May I conclude by sending to all readers of **ASBESTOS**, my best wishes for Christmas and for a happy and prosperous New Year.

We've been the largest independent producer of chrysotile asbestos for 93 years

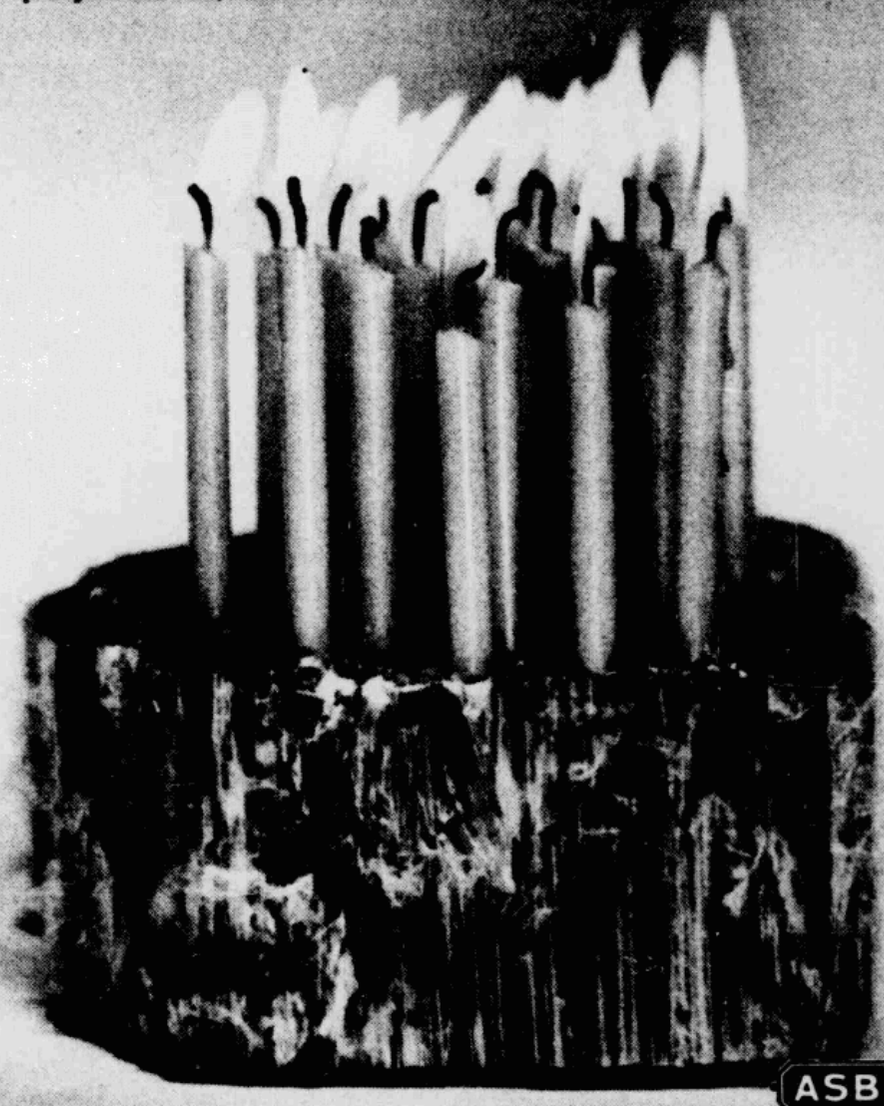
on the strength of our fibre

Our business is asbestos. We've mined it, milled it, and supplied it to industry since 1875.

In this, our Country's 101st year, we can look back on almost a century of growth that has made Asbestos Corporation Limited the largest independent producer in the free world. Today, our 4 plants produce all grades of asbestos from crude to the shortest fibre.

And the asbestos that starts down in our mines ends up in your textiles, asbestos cement products, brake linings, acoustic tiles, or floor covering. You'll find ACL asbestos almost everywhere . . . in consumer appliances, in building materials, even in paints, plastics and rubber. Right now modern laboratory trained technicians are looking for new and exciting ways of producing and applying asbestos.

Asbestos Corporation Limited, proud of its years of growth and service to industry, looks to the future. If you need any grade of chrysotile asbestos, we have it.



ASBESTOS

ASBESTOS CORPORATION LIMITED
Thetford Mines, Quebec, Canada.

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James D. Moran, Executive Vice-President
The Flintkote Company, Inc.

The Flintkote Company and its Canadian subsidiary, Flintkote Mines Limited, welcome this opportunity of extending to all our friends in the Asbestos Industry cordial greetings at this Holiday Season.

During 1968 the growth rate in the economy affecting our Industry resumed after the pause experienced in 1967. The year witnessed steady improvement in our products and our service to our customers on a year-round basis. Our concern with the well-being of our employees and customers led us to continued research and study in the field of environmental and occupational health. We look forward to 1969 with confidence, and wish all our associates and friends in the Industry a full measure of prosperity, health and happiness.

R. Power Fraser, Jr., Vice President
GAF Corporation

In charting the national economy for the coming 12 months of 1969, it appears to GAF that forward momentum will be maintained—following a pause for some readjustment during the first half.

Substantial increases in expenditures may be anticipated in both the private and public sectors of the economy for an annual Gross National Product rate of nearly $900 billion, which would represent an increase of 5% above 1968.

The future of the Building Materials and Floor Products industries should benefit substantially from the long pent-up demand for housing. With increases forecast at 13% in residential building and 6% in other building construction GAF sees in 1969 much promise for a good year.

GAF has changed somewhat in the past year in its organizational structure. A new division—the Industrial Products Division—was created through a merger of the manufacturing and marketing functions of the American Felt Company, Drycor Felt Company, the automotive, asbestos, insulation and roofing granules product lines of the Building Products Division and the contract sales group of GAF's photo and reprographic operations.

We wish to extend to all our best wishes for a happy and prosperous New Year.

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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

At this year-end season, we may be heartened by the fact that a high level of economic activity was sustained throughout 1968, contrary to earlier forecasts.

For the future, coming months should see support for economic well-being in the construction industry, coupled with record capital investments by industry.

At this moment, the immediate past, present and future provide a solid basis for optimism for those of us in the Asbestos Industry and in the varied industries we serve. For our part, optimism at Johns-Manville is reflected in extensive development programs, including commercial start-up of our new Reeves Mine and development work on new deposits which appear to show economic promise.

Prospects are bright. Industry economists foresee continued growth on the horizon. And, we come to the close of another year with new records established, despite some temporary shipping problems for overseas cargoes.

I'd like to take this opportunity to extend best wishes for the season to our many friends world-wide. The thousands of men and women of Johns-Manville join me in expressing our warmest hopes for your continued prosperity and happiness in this New Year.

Michael J. Messel, President
Lake Asbestos of Quebec, Limited

I am grateful for the opportunity, through **ASBESTOS**, to convey my warmest best wishes to our many friends and customers in the Asbestos Industry throughout the world.

1968 was a reassuring year for the asbestos producing industry due to increased consumption for industrial uses and the continued building boom in most of the consuming areas. Shortages developed in some fiber grades and this trend will continue in 1969. To meet the increased demand, lower grade asbestos deposits must be mined, requiring large capital expenditures.

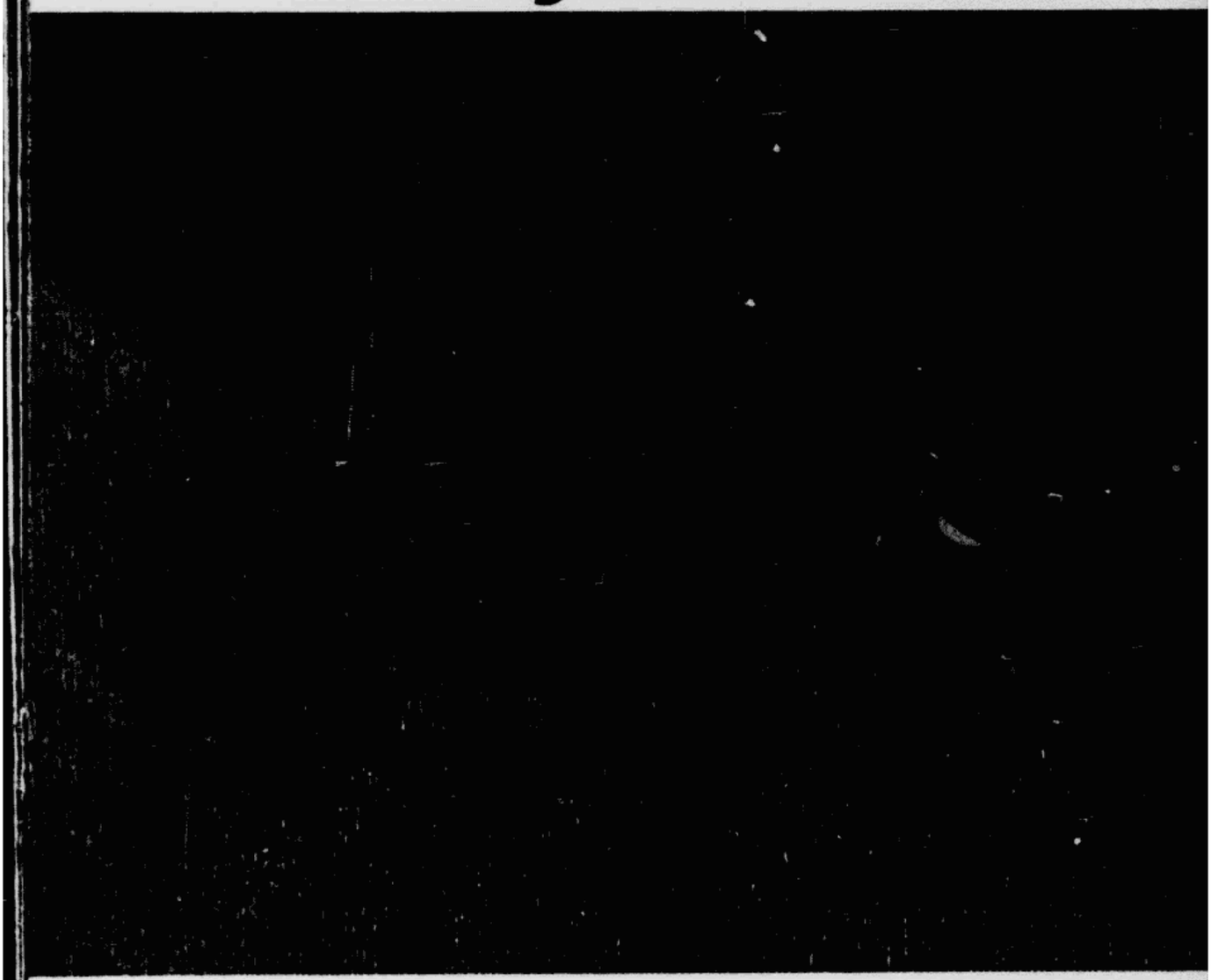
In recent years, quality improvements and increased costs of materials, labor and fringes have outpaced the price adjustments. Serious studies continue in more efficient marketing and delivery methods.

The outlook for 1969 is good

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Colon Brown, Chairman of the Board and Chief Executive Officer National Gypsum Company

Our subsidiary, National Asbestos Mines Limited, has concluded another fine year.

In 1968, we were able to capitalize on the expansion program completed at Thetford Mines in 1967. The resulting modification to our plant has increased fiber production, resulted in better product uniformity and generally permitted us to more efficiently capitalize on our fine ore body.

We are confident that the coming year will provide challenging opportunities for the Asbestos Industry and take this opportunity to express wishes to our customers, agents and many friends in the Industry for a most rewarding year in 1969.

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

To **ASBESTOS**, and all our friends in the Asbestos Industry, we extend greetings and best wishes for a prosperous 1969.

Perhaps the outstanding event in 1968 has been the increased demand for asbestos fiber and asbestos products on a world-wide basis—this in spite of wars, problems and uncertainties besetting businessmen generally. Opportunities for still further growth should prevail. That is if both the asbestos miners and asbestos product manufacturers continue to improve material qualities, and thereby encourage usage by potential markets not heretofore available. It is because of this conviction that Nicolet has invested heavily in new asbestos paper making and related equipment, and is promoting its new Nicolon wet process asbestos yarns.

Significant business indices indicate 1969 should be a good year for those of us serving building and automotive markets. We at Nicolet expect our sales volume to expand and are planning our operations accordingly.

William S. Simpson, President Raybestos-Manhattan, Inc.

1968 was a different year for Raybestos-Manhattan because of the attempted takeover of the company by a firm far removed from the Asbestos Industry. Despite this, we saw considerable progress in our area of that Industry: opening of the Clinton Creek mine by Cassiar Asbestos Corporation

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CANADA



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Raw Asbestos Crudes

& Fibres



Sales Representatives

for

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equipment; and rapid expansion of the automotive service field through increased emphasis on car safety.

R/M is proud to be a major contributor to this growing Industry. We look forward with enthusiasm to the future. We extend our best wishes to customers and suppliers for a successful New Year.

R. M. Bateman, Chairman
Turner & Newall Limited

I am delighted to have the opportunity again to send New Year greetings to all our friends in the Asbestos Industry.

We hope for a rising level of activity in 1969 in industrialized countries, to whose prosperity I am confident asbestos mining and manufacturing will contribute in full measure. Asbestos also has a key role to play in the developing territories of the world, particularly in the provision of piped water supplies and economic building materials, and we hope to see further strides in both these fields.

To all our customers, suppliers and friends whose cooperation we have enjoyed throughout the past year, we send our best wishes for success in 1969.

W. Lindsay Wylie, Vice-President & General Manager
Fiber & Textile Division
Uniroyal, Inc.

The beginning of this new year offers Uniroyal the pleasure of extending its best wishes for a prosperous 1969 to the members of the Asbestos Textile Industry.

1969 will be a year of challenge. If the Asbestos Textile Industry is to continue profitable growth, markets must be expanded and new products perfected. Rising costs and the threat of import goods make it mandatory that we concentrate our marketing, production and development skills toward better utilization of asbestos as a textile material.

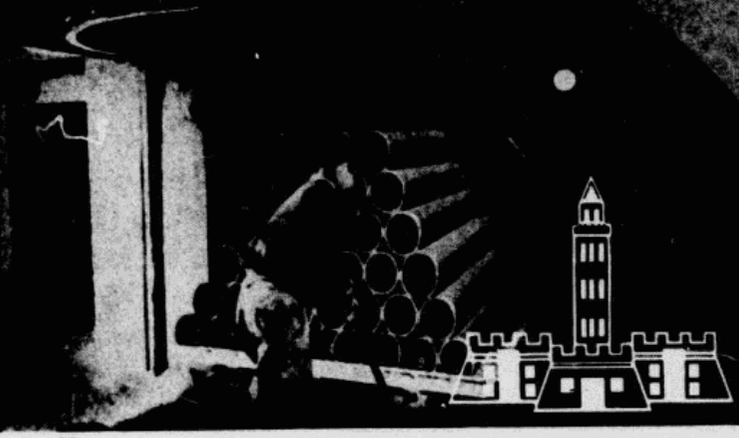
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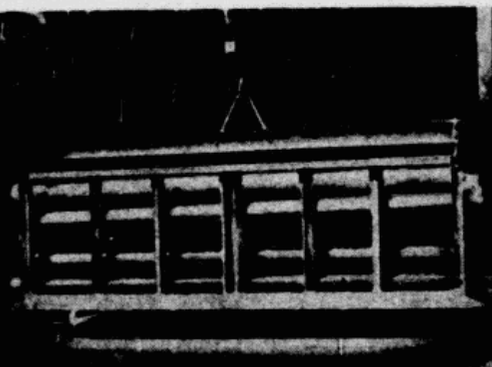
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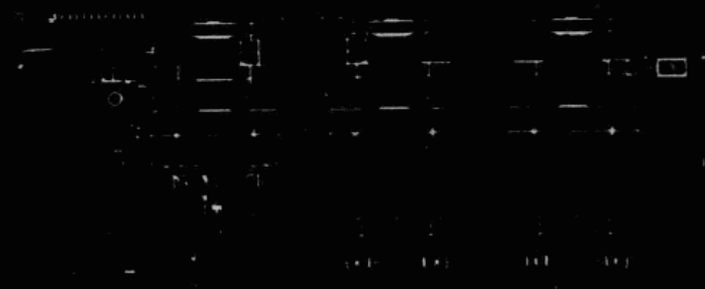


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Asbestos Rock Moved To Laval University

The world's largest sample of Chrysotile asbestos ore was moved from "Man and His World" to the campus of Laval University, Quebec City, Canada. The 45-ton mineral block was presented to the university's geological garden after having served as the centerpiece for the Asbestos Plaza last year and during Expo '67.

The Asbestos Plaza was sponsored by the Quebec Asbestos Mining Association and the huge ore sample was presented to the organizers of the geological garden complete with underwater illumination system and asbestos-cement gargoyles. Installed in the center of a pool, into which it will gush water, the giant Chrysotile asbestos boulder will act as a focal point for the garden that houses samples of ores mined throughout Quebec. Mineral exhibits in the Laval University garden now span the geological alphabet from "Asbestos" to "Zinc."

The asbestos block was removed from Man and His World to honor a pledge made to Laval University early in 1967. In its two-year existence, the rock has probably become the most "looked-at" mineral sample in the world. Despite its solid appearance, the block of Chrysotile ore is hollow. This is to accommodate interior water-piping and electrical equipment and to make it reasonably transportable. As it was, it took over six hours and involved a huge flat-bed trailer and special lifting equipment to move the boulder to its new site.

To construct the solid-looking boulder, a steel framework was built and then thin sections of top grade ore from Asbestos Corporation's Normandie Mine in Thetford Mines were attached to the frame. Veins of asbestos fiber were then painstakingly matched from one ore section to the next to create, authentically, the appearance of the mineral as it is mined in Quebec.

(A photograph of the large asbestos rock as part of the Asbestos Plaza at Expo '67 can be seen on the front cover of the June 1967 issue of ASBESTOS.)

MUNICH FAIR AND EXHIBITION COMPANY will hold the *15th BAUMA, International Construction Machinery Fair*, on the Munich Fair grounds of Theresienhohn.

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The Smit Group Activities

The Smit Group, composed of Postmasburg Cape Blue Asbestos (Pty) Limited, Groenwater Asbestos Mining Company (Pty) Limited and Rooipoort Blue Asbestos (Pty) Limited, is now producing five grades of fine, clean, well-opened Blue asbestos fiber at its mill near Postmasburg, Northwestern Cape, South Africa, which opened in April 1966. According to the company, milling techniques have been improved to such an extent that almost any grade of fiber can be produced at short notice by making minor adjustments in the processing equipment.

Vast development has been taking place at the Rooipoort mine, the latest addition to the Group, to bring the mine into full production. The fiber from this mine is said to be of high quality and its rich deposits occur over a large area.

A new section of the Postmasburg Cape Blue mine has opened near Rooipoort and the shaft has just been completed. The necessary developing and foot-wall systems are now being planned and the shaft should be operating by February.

Groenwater, the oldest mine of the Group, is operating at high production levels.

To cut costs of transporting ore to the mill from both the new section at Postmasburg and Rooipoort, the Smit Group is building a short private railway which it expects to be operating early this year.

South African Railways has recently electrified its railway network in the Northern Cape and is considering the installation of a double railway line in the near future to handle the expanding output of asbestos and other mines in the area.

The Group's entire output for 1968 has been disposed of and a ready market for 1969 production is anticipated. Success in marketing the product is attributed to the high quality of the fiber and flexibility of mines and mills to ensure prompt deliveries. *Valley Asbestos (Pty) Limited* is the sales organization of the Group.

20TH NATIONAL PLANT ENGINEERING & MAINTENANCE SHOW AND CONFERENCE will be held March 24-27, 1969, at Convention Center, Cleveland,

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New HELLENIT Plant

Hellenic Industry for Building Materials S.A. began the production of asbestos-cement pipes at its new *HELLENIT Plant* at Thessaloniki, Greece, on June 13, 1968, eight years after the opening of the first HELLENIT factory near Chalkis (Euboea).

The Chalkis plant has been supplying most of Greece's needs for asbestos-cement pipes, sheets and molded products. However, as the country's requirements for these products continued to grow the need for additional production dictated construction of new facilities.

The new plant, with an original planned annual capacity of over 40,000 tons of asbestos-cement pipes will, it is expected, more adequately meet the expanding needs of Greece. Pipes are produced in lengths of five meters, have inside diameters from 60 to over 1000 millimeters and can be made for the complete range of normal working pressures. The manufacturing process is completely automated and incorporates the most sophisticated types of modern equipment. By mid-1969 the company expects to complete an addition to this plant for the production of approximately 45,000 tons per year of corrugated and flat sheets as well as molded products. Total investment in these new facilities will be over $2,500,000.

The new plant is situated on a 60-acre site with road and rail transportation facilities and is only 25 kilometers from the harbor of Thessaloniki, making its products available for both domestic consumption and for export.

Management of the new facility consists of D. Canellatos, President and General Manager; A. Saoulis, Managing Director; and J. J. Bertrand-Vigne, Assistant General Manager.

THE NEW BUILDING BLOCK, a report on the "Factory-Produced Dwelling Module" has been prepared and is available at $5.00 from the Center for Housing and Environmental Studies, *Cornell University*, Ithaca, New York. This report is essentially a review of what is happening in the field of modular construction, with a brief commentary on individual efforts and their possible significance for the future of housing.

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Automatic Corrugators—

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ALL TYPES OF ASBESTOS CEMENT MACHINERY

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Automobile Sales

OCTOBER 1968 motor vehicle factory sales from plants in the *United States* totaled 1,125,214 (passenger cars—935,186, trucks and buses—190,028). The total for October 1967 was 751,934.

Motor vehicle factory sales from plants in *Canada* totaled 131,517 for October 1968 compared to 73,080 in October 1967.

RAYBESTOS-MANHATTAN, INC. is now manufacturing three types of tetrafluorethylene (TFE) envelope gaskets, split, machined and folded, with *porous TFE filler*. The filler is provided for environments requiring superior resistance to acids, solvents, alkalies, heat and moisture.

The split type, R/M 800, is available in standard pipe sizes, ½ inch through 12 inches, for 125-pound or 150-pound flanges. It may also be furnished with a filler of compressed asbestos sheet, blue felted asbestos, or combinations of compressed asbestos sheet sandwiched between layers of asbestos cloth or blue felted asbestos.

The machined type, R/M 801, for 125-pound or 150-pound flanges, is available with all types of filler. Although R/M 800 and R/M 801 have identical diameters, the R/M 801 envelope is machined to exact thickness of the filler.

The folded TFE envelope gasket, R/M 805, is produced from TFE tape folded to form a shield over the filler material and is used to gasket oval or round shapes and for sizes not offered in split or machined constructions. It is available with inside diameters of 10 inches or greater.

For fluid handling equipment, R/M 802 split type with fillers for Corning (Type 1 and new Type 2) or ASME flanges are available in standard glass pipe sizes of 1 inch through 6 inches. R/M 803 machined type conforms to the thickness of the filler and to the approximate inside diameter of the pipe. These are also furnished for pipe sizes 1 inch through 6 inches.

Fillers can also be furnished in such materials as woven asbestos cloth, rubber, neoprene and other synthetics where resilience and capability of conforming to rough, out-of-line flanges are requisites. TFE envelopes can be furnished without fillers.

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You may get a rubber stamp with your next Bauer Hurricane Pulverizer-Classifier

This is a customer's idea. Ordering his third Hurricane was practically a rubber stamp routine, he said, because of the excellent record established by his first two units. As most of the more than 100 Hurricanes now in use represent repeat orders, other customers apparently agree with his logic. Nearly 70 of these air attrition mills are processing nonmetallic minerals. One major asbestos producer now uses 21 units! Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. If you haven't ordered your first Hurricane yet, may we send you one . . . complete with rubber stamp for reordering? **The Bauer Bros. Co.**, Springfield, Ohio 45501, and Ontario, Canada.

BAUER A subsidiary of Combustion Engineering, Inc.



Building

From: McGraw-Hill Information Systems Company

NOVEMBER 1968 contracts for future construction totaled $4,863,240,000, an 11% gain over the comparable year-ago value.

Another 50% increase in apartment contract values helped push total *residential* contracting to $2,043,309,000, a 10% increase over a year ago. Contracts for one- and two-family houses fell short of last year's volume by 1%, as financing problems continued to affect this segment of the housing market. Non-housekeeping residential contracts fell 14% below the value last November.

Total contracts for *nonresidential* building rose to $1,991,813,000, 26% above the year-ago value. All major types of building in this group showed substantial increases over last November. Contracts for stores and warehouses jumped 40% and educational building contracts increased 30%.

The vacillating *nonbuilding* category registered a 13% drop, to a level of $828,118,000. Most of the decline was due to the expected cutback in highway contracting, which is being affected by a temporary $200 million freeze in spending from the highway trust fund. The category was also affected by the lack of any major utility contracts, which have contributed heavily to construction gains so far this year.

THE "DYNABULK" CAR, a new type of railcar especially designed for transporting cement and other fine powdered materials, is available from the *United States Railway Equipment Company,* Chicago, Illinois. U.S. Railway is the Freight Car Leasing Division of *Evans Products Company* and has been licensed to handle the leasing of "Dynabulk" railcars in the United States and Canada. The 3,000-cubic-foot car weighs 53,000 pounds and can carry approximately 105 tons of material. It provides an improved pressure-differential action and insures full delivery of a product by means of a self-sweeping action diaphragm which propels the powdered material toward the outlet. U.S. Railway will be glad to test samples at its laboratories to determine if

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When we get to the moon, asbestos will be there, too. For our asbestos fibers fortify J-M Min-K® insulation, specified for the Lunar Excursion Module in the Apollo Project.

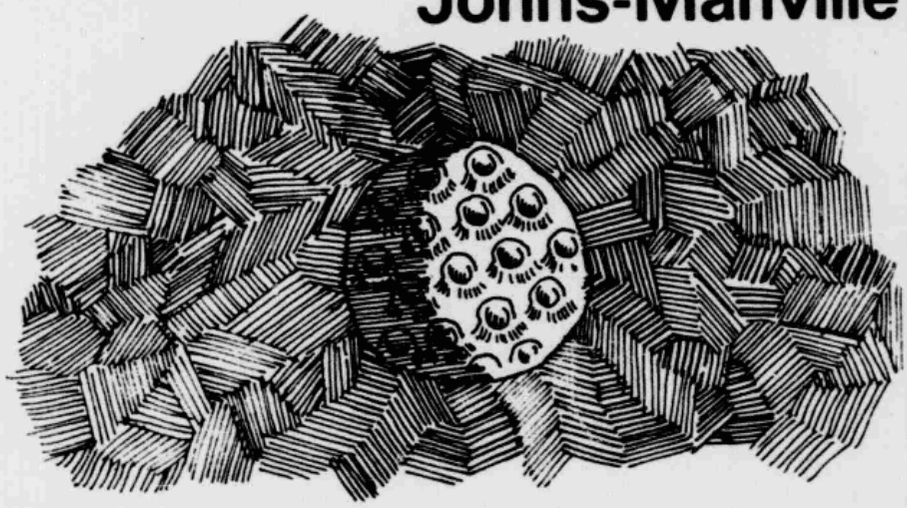
Back on Earth, you can find asbestos just about everywhere you look. In industry, our asbestos fibers add strength and fire-retardant qualities to J-M Transite® pipe, insulation, and clutch and brake linings. To mention just a few.

We have over 100 grades of asbestos. For just about any application imaginable. We'd like to show you what they can do for you.

Contact your local J-M representative. Or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Manville, New Jersey, U.S.A.

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Asbestos Magazine, 1969, January 1969
ACL Doc 12621 · Page 23 of 59
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MARKET CONDITIONS

General Business.

General business, as evidenced by statistics on unemployment, industrial output, housing starts and volume of retail trade, continues quite good—enough so that strong inflationary pressures are still being felt. In an effort to reduce these pressures, the Federal Reserve Board increased the discount rate from 5¼ to 5½ percent and most of the largest banks immediately raised their prime rates to a record 6¾ percent. While it will be some time before these moves will achieve the desired effect of slowing down the economy there is no doubt the higher cost of loans will eventually slow down consumer borrowing for such things as housing, automobiles and major appliances. Economists are predicting a slowdown, but no major recession, for the first half of 1969.

Peace talks in Paris have come to a standstill pending agreements on the manner in which representatives of all directly interested parties shall participate in the negotiations. Once these procedural questions are settled, it is hoped the talks will resume and become more fruitful in the way of making real progress toward a settlement of the current conflict.

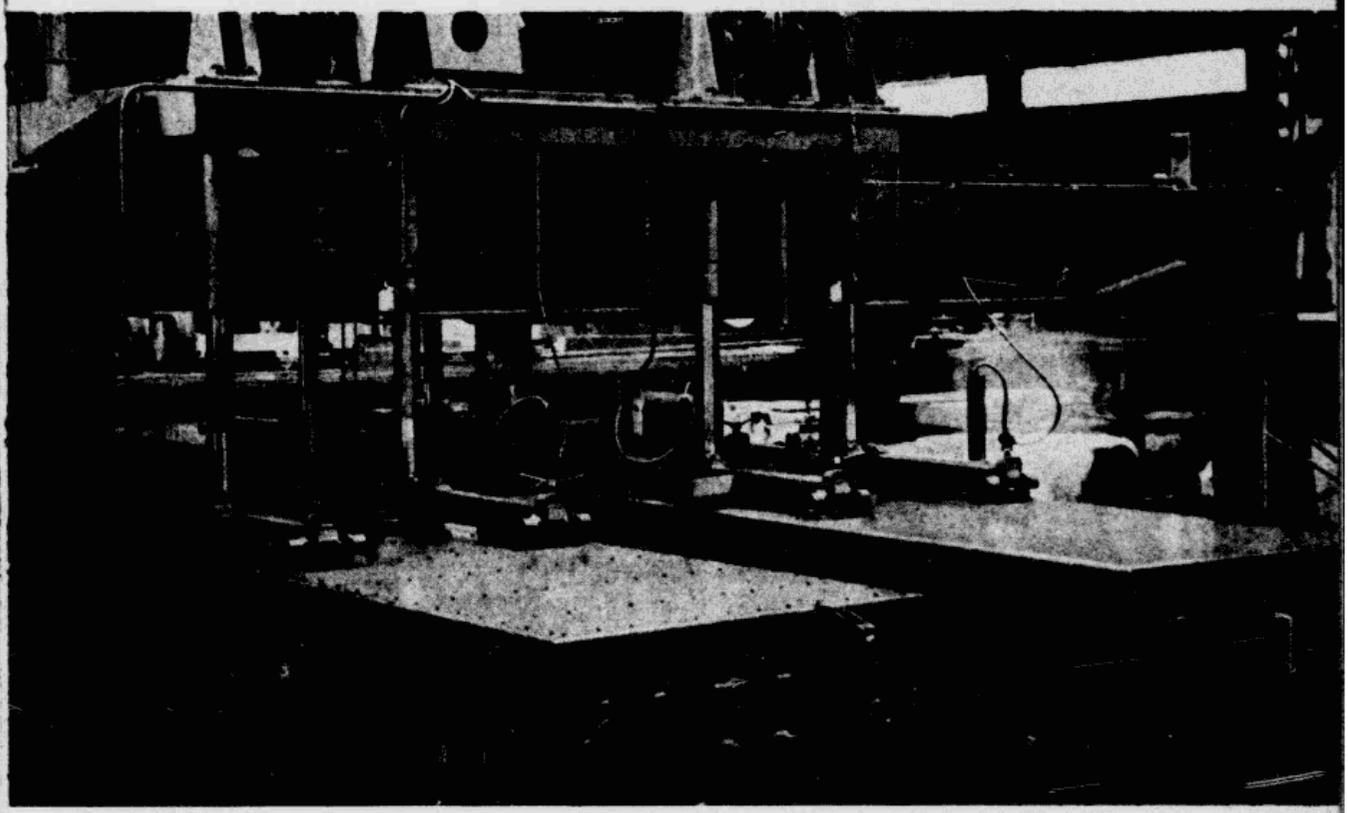
Asbestos Fiber.

The market for all grades of Chrysotile asbestos fiber was strong throughout the year 1968. Complete figures on industry shipments for the year are not yet available but it is indicated those for 1968 will exceed the total for 1967. While all grades of fiber are available, increased demand has resulted in somewhat extended delivery dates for certain grades, notably those in Groups 3, 5, 6 and 7, and "rush" shipments are becoming more difficult to obtain. The closing of the Nicolet mine near Warwick, Quebec, will place additional pressure on other sources which will be required to supply the requirements formerly filled by this mine. Forecasts indidate a continued strong demand in 1969 for all grades of Chrysotile fiber.

Demand for Arizona filter fibers continues heavy and appears to be increasing at a steady rate.

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Asbestos—Manufactured Goods.

Asbestos Textiles: There is a good level of activity in the asbestos textile industry and the outlook for early 1969 is generally favorable.

Asbestos Brake Lining: Taking into account the normal seasonal slowdown, sales of brake linings are quite good. Further strength in this market is indicated for the coming year. Despite the expanding market, prices for these materials are not as strong as might be expected and competition is extremely keen.

Asbestos Paper: Sales of asbestos paper have declined somewhat in the past few months but a rising trend is anticipated for the near future. Some price increases have been made to offset increased costs of material and labor.

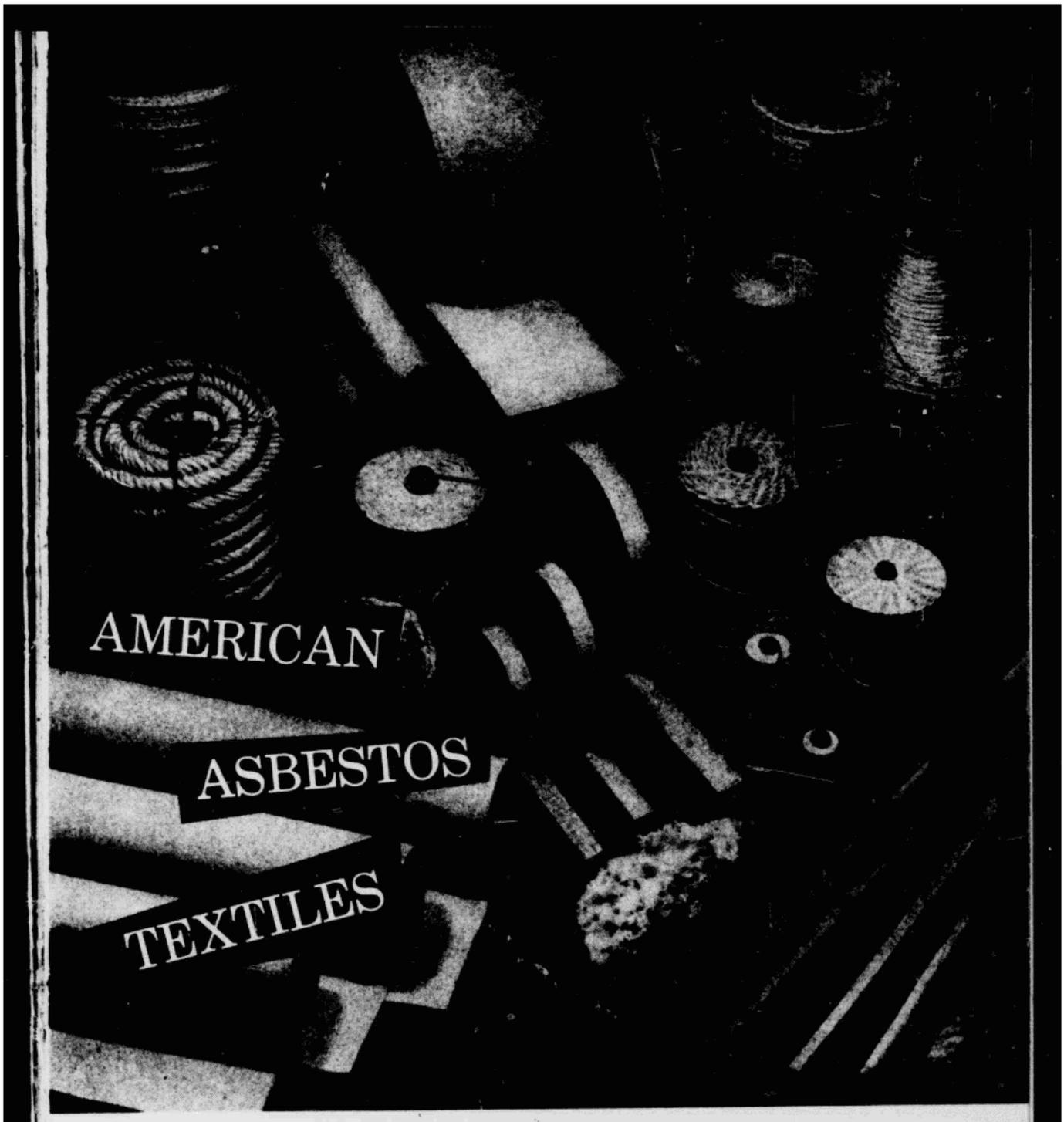
Asbestos Millboard: A steady market continues for asbestos millboard. Sales for 1968 have been maintained at a relatively high level and are expected to continue for some time to come. Labor and material costs continue to increase and upward price adjustments have been made by some producers to offset these increased costs.

Asbestos Felt: Demand for asbestos felt is strong and preliminary figures indicate 1968 sales will establish a new high for this product. Prospects for continuing strength in this market are very good.

Asbestos Corrugated Sheets: Sales of asbestos corrugated sheets remain steady but at a rate some fifteen percent under that of 1967. Inroads of competing, supplantive materials account for much of this decrease. Promotional efforts, comparable to those being employed by producers of competing materials, are suggested as probably the best means to initiate an improvement in this market.

Asbestos-Cement Flat Sheets: Total sales of flat sheets for 1968 showed some decrease from the figures recorded for 1967. Strong competition from foreign sources is being felt in this market and prices are suffering as U.S. producers attempt to maintain their share of sales.

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AMERICAN ASBESTOS TEXTILE CORPORATION

PLANTS AT NORRISTOWN, PA. MILFORD SQUARE, PA. MEREDITH, N.H. TOLUCA, MEXICO

High Pressure Insulation: The market for high pressure insulations continues strong and there is no sign of a decrease in demand at this time.

Asbestos-Cement Shingles, Roofing & Siding: With remodeling and new construction both on the increase, the market for asbestos-cement building materials should improve, provided such materials can maintain or increase their share of the market. After the usual winter slowdown in building in Northern areas, an upward trend in sales of these products is predicted.

Asbestos-Cement Pipes: Sales of asbestos-cement pipes continue at a healthy rate although the slight slackening previously noted in the West Coast market continues. Outlook for the first quarter of 1969 appears favorable with public works programs being counted on for a substantial contribution to the overall market.

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

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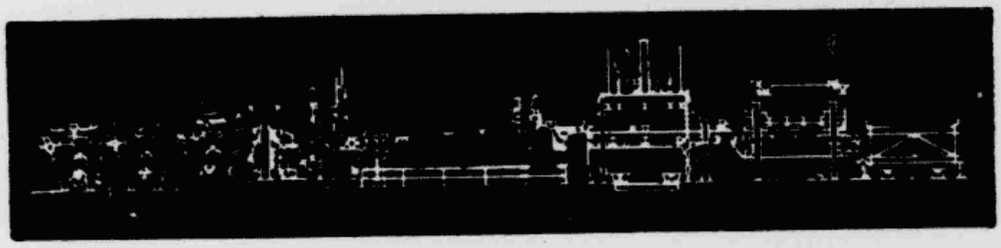
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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



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

pressure pipes

socket pipes

flat sheets

corrugated sheets

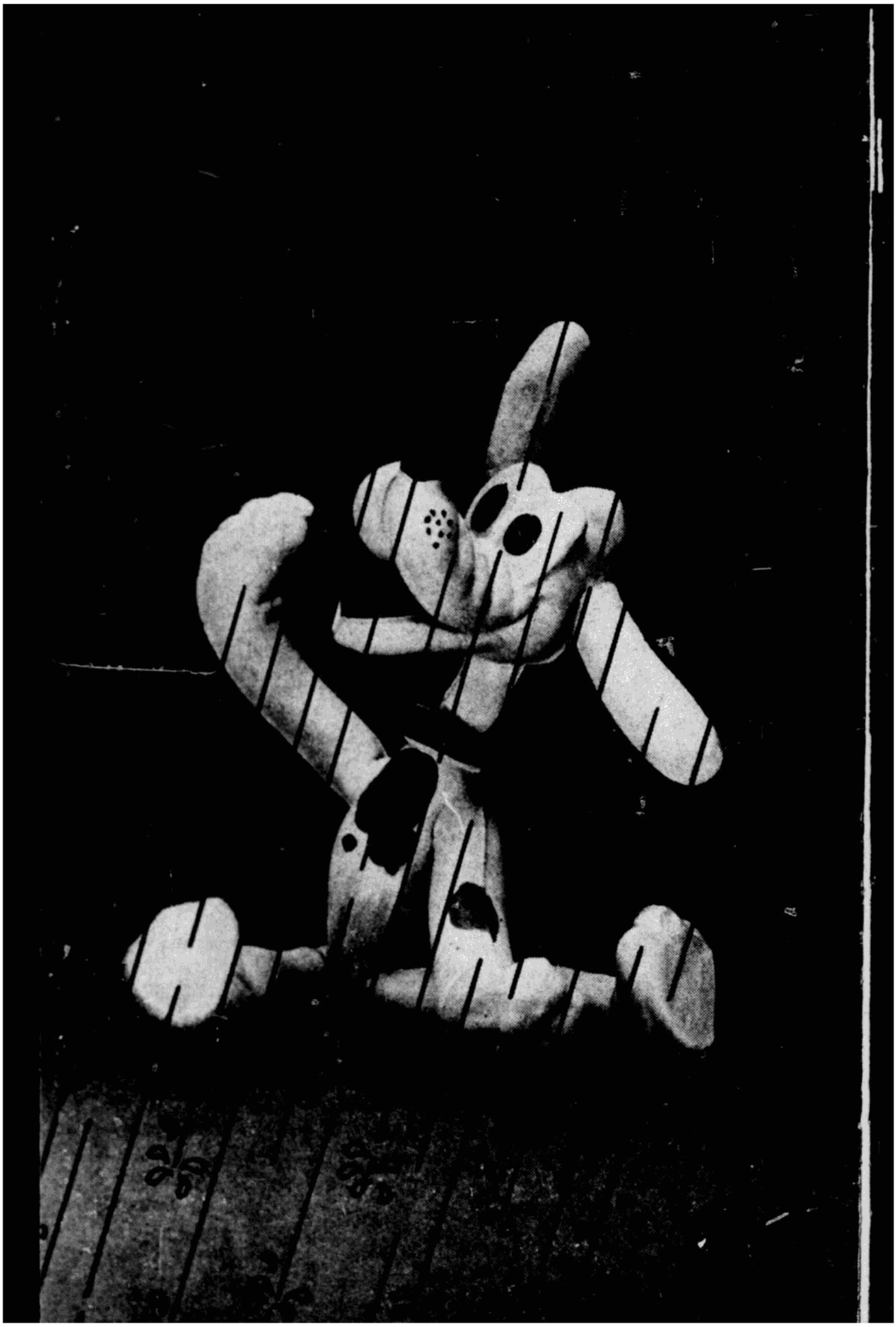
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TW1732

JOHN F. D. ROHRBACH, Chairman of the Board of Directors of *Raybestos-Manhattan, Inc.*, died on December 25, 1968, at a convalescent home in New London, Connecticut.

Mr. Rohrbach was born in New York City in 1889. In 1911, he graduated cum laude from New York University School of Commerce.

He joined R/M in 1939 as Assistant to the President and was elected Vice President and Director the same year. Executive Vice President in 1944, and Treasurer in 1946. He was President of the company from 1948 until his election as Chairman in 1967.

CLIFFORD J. BACKSTRAND, former Chairman of the Board of *Armstrong Cork Company*, died October 3, 1968, at age 71. He was prominent in civic and national affairs and was a member of the Executive Committee of the National Association of Manufacturers and a senior board member of the National Industrial Conference Board.

Mr. Backstrand began his career with Armstrong Cork in 1921 as a student salesman in the Floor Division. He was elected President of the company in 1950 and Chairman of the Board in 1962, a post he held until his retirement in 1967.

ASBESTOS-CEMENT SHINGLES are roofing the Blossom Music Center, the new home of the Cleveland Municipal Orchestra, Cleveland, Ohio. The building is virtually all roof as the structure is pitched at such an incline that the roof is also the sidewalls. The main roof used 800 squares of asbestos-cement shingles, 16 inches long by 14 inches wide. The 14-inch shingles were specially produced to create a more pronounced visual effect. Built-up roofing was installed on the main roof. First, red rosin paper was laid over the deck. Next, two plies of built-up roofing and a 45-pound asbestos felt were applied. The felt was cut to 18-inch widths and applied as interlayment to overlap each course of shingles. Then the shingles, with a 9-inch exposure, were installed. The wrap-around roof required 350 squares of asbestos-cement shingles over 15 asbestos felts with a 6-inch minimum lap. The roof covers 4600 seats which spread out free of columns in the curve of the arch.

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ALBANY FELT COMPANY has agreed in principle to acquire two subsidiaries of *Outagamie Corporation*, Appleton, Wisconsin. The subsidiaries are Appleton Wire Works Corporation and International Wire Works. The transaction will require approval by the shareholders of Albany Felt of an increase in authorized stock.

JOHNS-MANVILLE CORPORATION has completed its acquisition of *Crown Tuft Carpet Company*, of Dalton, Georgia. The existing management of Crown Tuft remains unchanged and will provide the nucleus for future expansion.

Crown Tuft manufactures a complete line of indoor/outdoor carpeting and residential and commercial carpets.

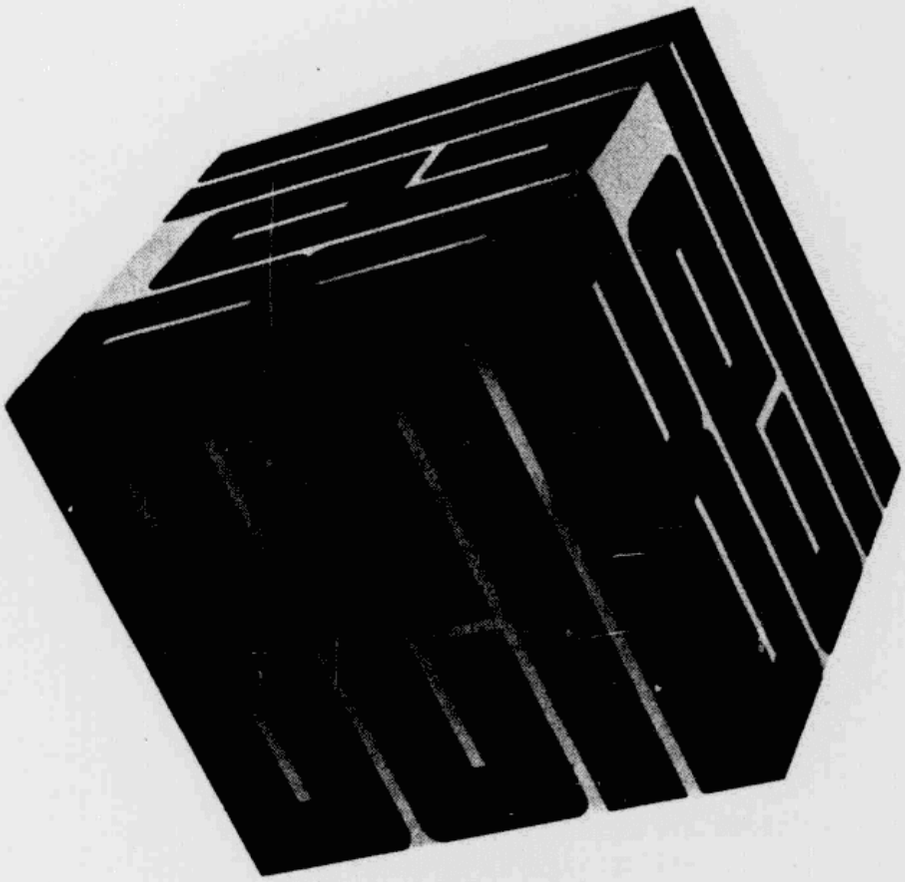
ILLINOIS CENTRAL INDUSTRIES, INC. and ABEX CORPORATION completed their merger following approval of the stockholders of both companies and a favorable tax ruling from the Internal Revenue Service.

William B. Johnson, President and Chief Executive Officer of Illinois Central Industries, was elected to the unfilled post of Chairman. *Kempton Dunn*, former Chairman of Abex, was elected Vice Chairman of Illinois Central Industries and Chairman of the Executive Committee of its new Abex subsidiary.

W. R. GRACE & CO. and FISCHBACH AND MOORE, INCORPORATED have announced that their managements have agreed in principle to a merger. Both companies stated that legal details have to be worked out and the transaction is subject to the approval of both Boards of Directors and of the stockholders of Fischbach and Moore. Grace is an international industrial concern with interests in the chemical, consumer products, petroleum and transportation industries. Fischbach and Moore is a leading electrical contracting company.

EDWARD W. ZIMMERMAN, General Traffic Manager in the Floor Products Division of GAF Corporation, has been appointed Chairman of the newly-reactivated Traffic Committee of the *Asphalt and Vinyl Asbestos Tile Institute*. This Committee had been inactive since 1957.

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RITE HARDWARE MANUFACTURING COMPANY has introduced a *disposable air-supported hood* as a new addition to its line of Whitecap helmet systems. According to Rite Hardware, these hoods are the economical answer to conditions requiring respiratory safety but not necessarily hardhat protection. The air-hood kit consists of a disposable hood and a snug-fitting, reinforced vinyl vest with a flexible air inlet connection. The air-hood rests on a semi-rigid neck ring on the vest. Low pressure air inflates the hood and maintains gentle circulation to keep the wearer comfortable and safe from airborne contaminants. Without headband or suspension system, the head is free to turn within the hood. Hardhat and glasses may be worn inside the hood if desired.

VIBRA SCREW INCORPORATED is offering a free, in-plant trial of its 32 cubic-foot capacity portable *Test Bin Activator*. Units are located in most major industrial areas of the United States. According to Eugene A. Wahl, President of Vibra Screw, "These test units allow a prospective user to observe the Bin Activator in operation in his own plant, using his own materials. They enable him to make a thorough evaluation of the Bin Activator's ability to discharge dry bulk materials on a first-in, first-out basis."

The patented Bin Activator operates on the principle of controlled vibration applied to the bin bottom, which is isolated from the bin itself. A vibrated baffle located above the bin outlet relieves headload pressure on the outlet and transmits vibratory forces up into the stored material.

AMERICAN PRECISION INDUSTRIES, INC. has introduced a new line of "RA" packaged dust collectors for product recovery and air pollution control. The Dustex Division of American Precision is offering 22 models of these collectors which are designed primarily for the mineral and metal products, food and grain processing, ceramic, chemical, agricultural and building products industries, but are adaptable for other industrial dust-producing applications.

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top grade Chrysotile
Asbestos Fibres leads you
to Flintkote. Here you get assur-
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ized field, highly selective quality control from
superior resources, and a combination of
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IN U.S.—The Flintkote Co., 480 Central Ave., East Rutherford, New Jersey 07073 ☐ IN CANADA—The Flintkote Co. of Canada Ltd., 30th St., Long Branch, Toronto, Ontario; Flintkote Mines Ltd., Thetford Mines, P.Q., Canada ☐ IN ENGLAND—T.F.C. Industries, Ltd., Adam House, 1 Fitzroy Square, London W-1, England.

FLINTKOTE

ASBESTOS CORPORATION LIMITED began working on a $2.5 million project to sink a 1645 foot exploration shaft into the *"Penhale"* asbestos ore body, situated on its Vimy Ridge property, 5 miles southwest of Thetford Mines, Canada. The project is scheduled for completion by late 1971 and its purpose is to confirm drill-indicated reserves.

In addition to the shaft, the exploration project will entail driving a drift laterally into the ore body at the 1120 foot level. Results obtained by diamond drilling from this drift will enable company officials to determine whether or not to proceed with further development of the ore body. Should the decision be favorable, the exploration shaft and drift would be incorporated in the new underground mine. Cost of developing the mine and bringing it into production is estimated at a further $5.25 million.

If developed, the mine would have a productive capacity of 8,200 tons of ore per day and it would be the largest underground asbestos mine in the world.

ASBESTOS CORPORATION LIMITED will install an electro-static precipitator in the dryers of its King Mine plant to eliminate the emanation of dust. The precipitator will work on a principle similar to that of the ordinary plastic comb, which, when passed through the hair, builds up a charge of static electricity that attracts materials to the comb. The installation of this equipment will be completed next spring.

Similar equipment will also be installed at the ore preparation and storage plant that is to be constructed near the King-Beaver Mine office. The new plant is expected to be completed in August 1969 and will have greater capacity than the installation it is replacing. It will treat all ore mined in the King-Beaver open-pit as well as ore from the two underground shafts in Thetford Mines.

WINDSOR BRICK, a vinyl-asbestos floor tile with an early American brick pattern, has been added to the *Ruberoid* floor tile line of *GAF Corporation*. The tile has a two-brick rather than a three-brick design and is available in red, white, brown or avocado green.

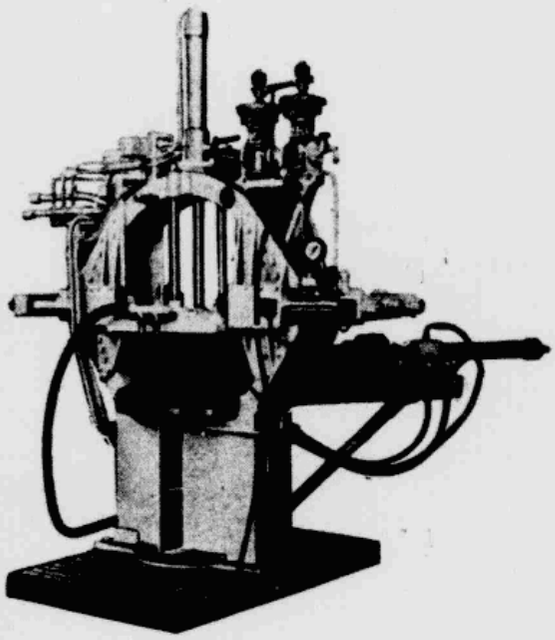
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MARION S. BADOLLET, of Plainfield, New Jersey, has received a Certificate of Merit from the *Dictionary of International Biography* for "distinguished service to asbestos research and chemical technology," and his name has been included in the "International Biography" which is published in London, England.

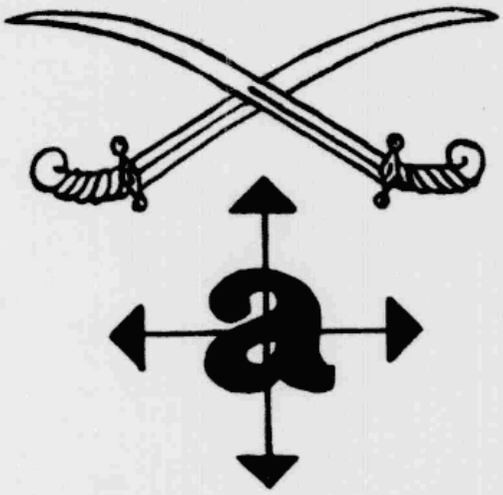
Mr. Badollet is a Consultant for the Health Research Institute of Fairleigh Dickinson University. He retired in 1960 as Chief of the Asbestos Fibers Section of the Johns-Manville Research Center.

JOHNS-MANVILLE CORPORATION has added *Kolor-Kap and Blak-Kap Duplex Roofings* to its FGA line of roofing materials. The new products combine glass fiber and asbestos fiber with asphalt and are cold-applied, low-slope residential roofings with a high Class "B" fire rating from Underwriters' Laboratories. "Kolor-Kap" recently was used on a home which J-M remodeled as its contribution to the Park Slope North rehabilitation project in Brooklyn, New York.

JOHNS-MANVILLE CORPORATION has introduced an *Asbestogard Vapor Barrier System* for use with its Fesco Board roof insulation over metal decks. The components are Asbestogard Felt and Asbestogard Adhesive. Asbestogard Felt is an asbestos vapor barrier reinforced with J-M glass fiber. Long, high-grade asbestos fibers provide the basic fire resistance and toughness. Because Asbestogard Felt is saturated asbestos felt rather than a film, it is rugged enough for normal roofing practice. Non-flammable Asbestogard Adhesive is designed for cold application of the felt to metal decks. The adhesive can be applied by a roller to the deck surface and in a continuous film. It is also used to seal laps, sides and ends. The system resists water vapor and wind uplift and is Factory Mutual approved for Class I construction when used over metal decks with Fesco Board insulation.

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ASBESTOS CEMENT PRESSURE, SEWERAGE AND DRAIN PIPES IN 5m LENGTH.

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SUPERCONCRETE PIPES (S.A.) LIMITED has complied with the Specifications of the Engineering Branch of the General Post Office, Republic of South Africa, and now is qualified as an approved supplier of cable conduit. Materials of high standards are required by the South African Government for use in the Republic's national telephone network.

Also, "CEILITE," an asbestos-cement ceiling board manufactured at Superconcrete's factory in Roodepoort, has been granted the mark of the South African Bureau of Standards.

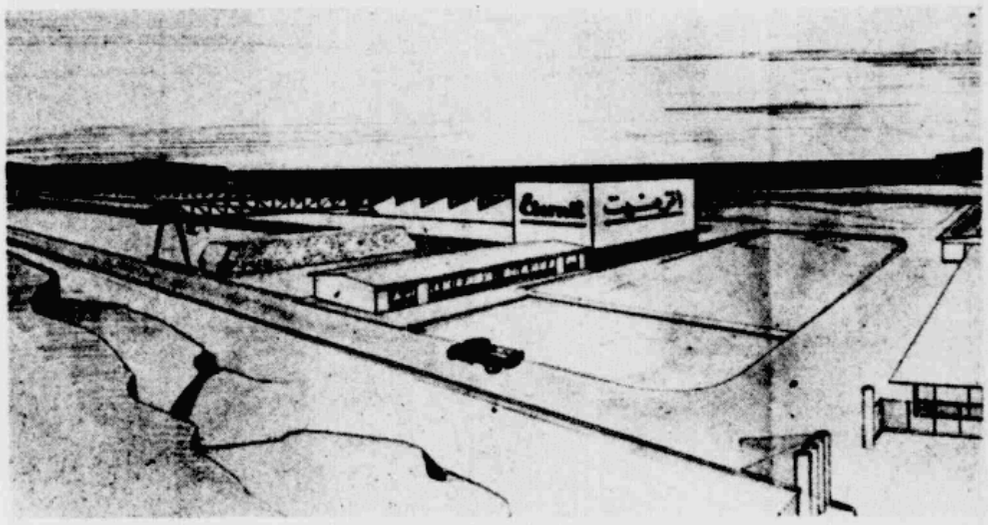
INTERNATIONAL GLOSSARY OF TECHNICAL TERMS has been published by "World Mining" and is available at $20.00 per copy post paid. The new, 266 page book is a five language compilation of 5,600 words or expressions in English, Swedish, German, French and Spanish. It is arranged alphabetically and includes the most commonly used terms in geology, exploration, underground and open-pit mining, minerals beneficiation, hydro-metallurgy, smelting and refining. Special emphasis has been placed on the inclusion of names and designations for key parts of today's large and complex mechanized equipment as well as on process names and designation. The proper terms have been incorporated in the Glossary so it can be used as a basic unit for any company to set up its own computer retrieval program.

ASTM MEETINGS—The American Society for Testing and Materials has scheduled the following meetings during February and March 1969: Committee F-6 on Resilient Floor Coverings, National Bureau of Standards, Gaithersburg, Maryland, February 18-19; Committee C-17 on Asbestos-Cement Products, Americana Hotel, Houston, Texas, February 18-20; Committee D-9 on Electrical Insulating Materials, Washington Hilton Hotel, Washington, D.C., March 3-6; and the Philadelphia District Meeting (a joint meeting with the American Society of Nondestructive Testing). Presi-

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THE LIBYAN ETERNIT CO. LTD.



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LIBYAN INDUSTRIALISTS AND BUSINESSMEN IN COLLABORATION WITH ETERNIT SUISSE AND ETERNIT GENOVA

MAIN PRODUCTS
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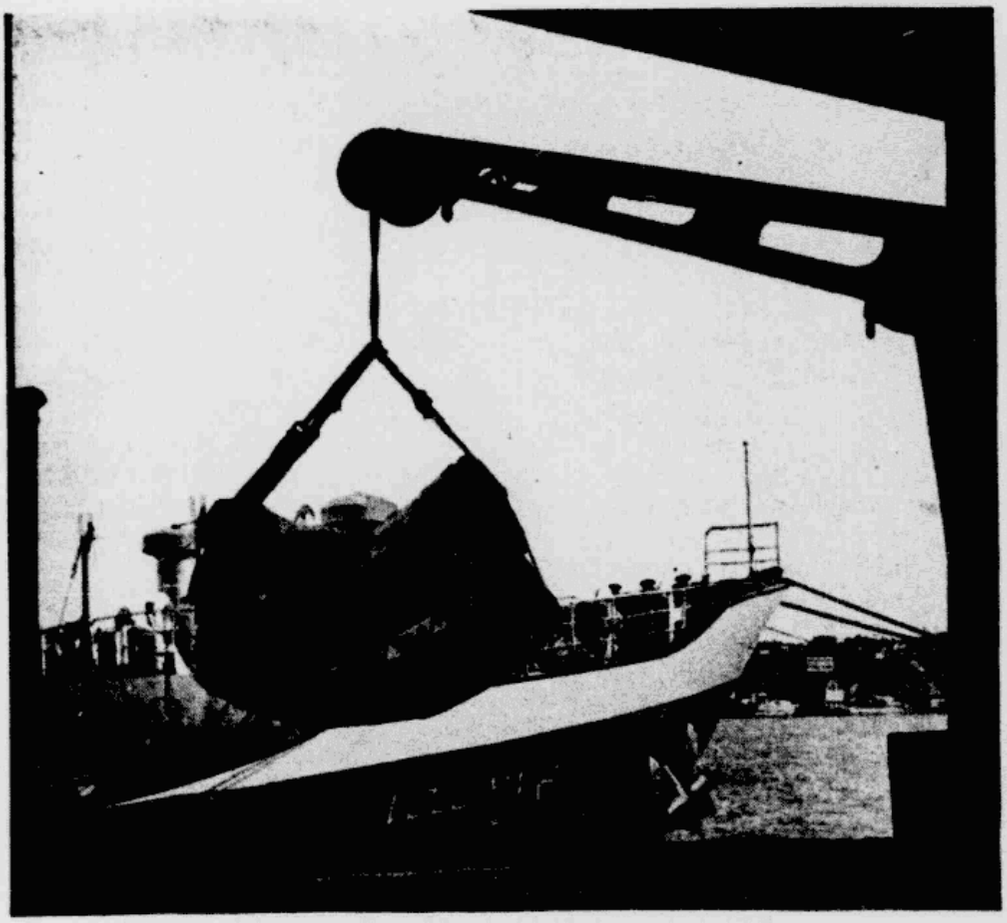
GRANT WILSON, INC. has developed the *AIR-MOIST,* an absorbent humidifier pad made of cellular asbestos. Its fast water absorption and carrying capacity eliminate clogging from lime build-up and increase the life of the pad. It is manufactured solely as a replacement pad and is available in five sizes to fit many power pad-type humidifiers. The frames for these pads are made of high temperature plastic and for easy identification, each size frame comes in a distinctive color.

THE U.S. BUREAU OF THE CENSUS has issued its annual publication of data on exports and imports related to output. According to this report, the United States exported 8% of its output of movable goods in 1966 compared with 7.8% in 1965. The value of imports in 1966 represented 6.7% of output which was up from 6.1% in 1965. The report presents the dollar value for each of the 1,010 groups of exported commodities related to U.S. production and 670 groups of imported commodities related to new supply.

THE NATIONAL BUREAU OF STANDARDS has developed a test procedure to measure the eccentricity of the reaction of a bearing wall to floor loads. The procedure is also suitable for measuring the eccentricity of the supporting force at the base of a bearing wall subjected to an eccentric load. Copies of NBS Building Science Series 14 (June 1968), "Experimental Determination of Eccentricity of Floor Loads Applied to a Bearing Wall," by D. Watstein and P. V. Johnson, are available at 15c each from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

DR. LAWRENCE M. KUSHNER has been named Deputy Director of the *U.S. National Bureau of Standards.* He replaces DR. IRL CORLEY SCHOONOVER, who

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Gold Bond
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A19

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, the preliminary figure for production of asbestos in 1967 is 8,855 short tons, valued at $10,657,000 (Chrysotile, 8,188 tons, valued at $10,647,000; Crocidolite, 667 tons, valued at $10,000). Imports of asbestos amounted to 6,436 short tons (Amosite, 1,237; Chrysotile, 4,970; Other, 229). The figure of 438 short tons is given as the amount of all types of asbestos that was exported during the year.

Canada—According to the Dominion Bureau of Statistics, 123,985 short tons of asbestos were produced in September 1968, compared to 123,438 tons in September 1967. The production figure for the period January through September 1968 was 1,040,953 tons, against 996,840 tons for the same period in 1967.

Canada produced 36,573,229 square feet of vinyl-asbestos floor tile during the Third Quarter of 1968 and shipments for the same period amounted to 44,046,454 square feet. The figures for the period January through September 1968 are 132,574,454 square feet for production and 135,099,379 square feet for shipments. Imports of vinyl-asbestos floor and wall tiles from January through June 1968 amounted to 11,187 square feet, valued at $1,000. These figures were reported by the Dominion Bureau of Statistics, Ottawa.

Swaziland produced 20,400 short tons of asbestos during the first half of 1968, compared with 19,800 tons for the same period in 1967. Exports of asbestos to Great Britain were valued at £2,063,000 during the first nine months of 1968.

NOTES FROM 1968 ANNUAL REPORTS

MSAULI ASBES BEPERK

For the year ended June 30, 1968, consolidated profit, before taxes, was R139,519, compared with a loss of R136,065 for the previous year. Capital expenditure on fixed mining assets amounted to R700,764 to erect a new milling plant, for quarry and mining equipment, and for other items to increase production. The company has registered "Msauli Krisotielasbes Limited" as an additional subsidiary.

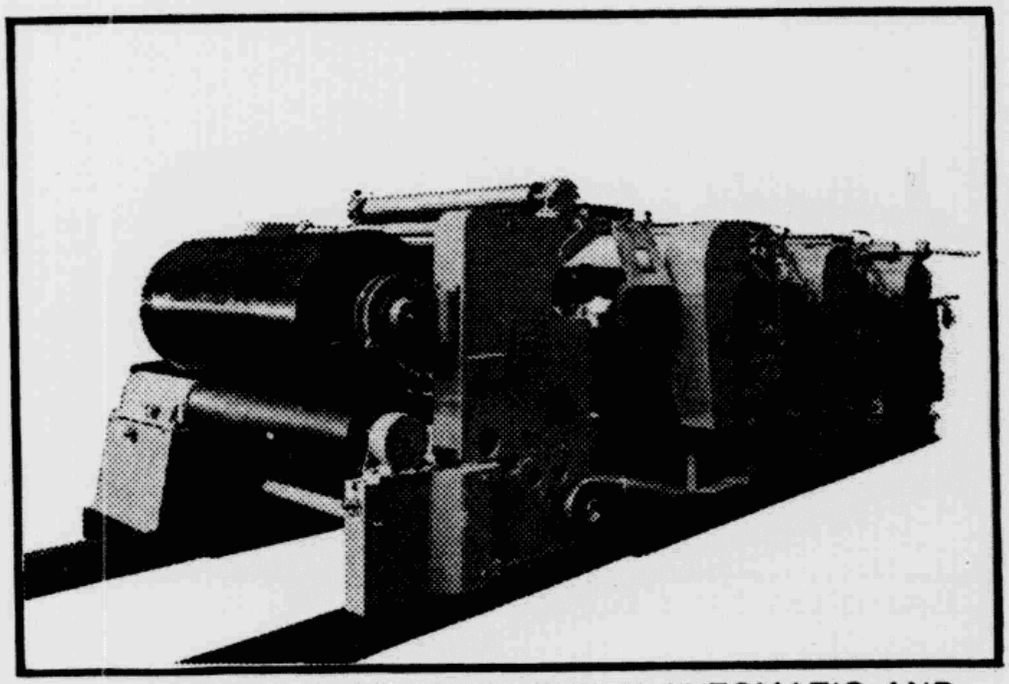
It is planned to gradually replace the remaining obsolete quarry equipment with new equipment to make more ore avail-

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INDUSTRY NEWS

HAPPY BIRTHDAY

Walter D. Baldwin, Vice President-Administration, Uniroyal, Inc., New York City, January 16.

P. C. McCarroll, Superintendent, Durabestos Works, Wunderlich Limited, Rosehill, N.S.W., Australia, January 16.

John K. Whittaker, Vice President-Marketing, Nicolet Industries, Inc., Ambler, Pennsylvania, January 18.

L. C. Dawson, Director, The Cape Asbestos Company Limited, London, England, January 21.

William E. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, January 21.

John Arthur Brown, Jr., Sales Manager, Asbestos Textile Division, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, January 24.

William A. Schreyer, Treasurer, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, January 25.

Eric G. Scott, Finance Director, Wunderlich Limited, Sydney, N.S.W., Australia, January 25.

H. G. (Mike) Donovan, Sales Manager (U.S.), Asbestos Fibre Division, Johns-Manville Research & Engineering Center, Manville, New Jersey, January 27.

Herbert S. Hirschfeld, Manager, Standard Asbestos Company, New York City, January 27.

T. I. Read, Director of Research, H. K. Porter Company, Inc., Thermoid Division, Russell Works, Middletown, Connecticut, January 27.

Nelson Bain, President, Asbestos Erectors of Canada Limited, Montreal, Canada, February 1.

William G. Neel, Export Manager, Building & Industrial Products Division, GAF Corporation, New York City, February 1.

Mrs. L. H. Saitta, Chairman of the Board, Asbestos Corporation of America, Garwood, New Jersey, February 2.

George F. Ducker, Vice President & General Manager, General Asbestos & Rubber Division, Raybestos-Manhattan, Inc., North Charleston, South Carolina, February 5.

Joseph P. Flynn, Manager of Public Relations Services, GAF Corporation, New York City, February 7.

C. G. Bourne, Production Manager, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, February 8.

Ralph L. Bullock, Sales Manager, Industrial Products Division, GAF Corporation, Staffordville, Connecticut, February 8.

Dudley T. Colton, Vice President for International Division, Johns-Manville Corporation, New York City, February 8.

A. Joseph Fontana, Director of Industrial Relations, Uniroyal, Inc., New York City, February 8.

R. H. Dent, Group Chairman & Managing Director, The Cape Asbestos Company Limited, London, England, February 9.

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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.
Stanley E. Price, Vice President-Marketing, Pipe Division, Certain-teed Products Corporation, Fort Washington, Pennsylvania, February 10.
John K. Locher, Assistant Secretary, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, February 11.
James D. Moran, Executive Vice President, 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.

Surveyer, Nenniger & Chenevert Inc., Montreal, was engaged to undertake a feasibility study for the Hellenic Industrial Development Bank to determine if it is economically feasible to develop an asbestos deposit in Greece. To carry out this study, SNC associated itself with *Watts, Griffis and McOuat,* mining geologists based in Toronto. WGM will handle the mining and geological aspects of the investigation and SNC will study the milling of the asbestos, estimate what capital will be needed and analyze the financial side of the venture. Together they will investigate potential markets for asbestos-cement products in the Mediterranean Basin and in Eastern Europe.

Also in collaboration with WGM, SNC engineers are engaged in a study of the white asbestos deposit near Barraba, Australia, which is owned by Pacific Asbestos Company.

SNC also specializes in hydro power development and river control and drew up the specifications for a hydroelectric complex at Idikki, in Kerala, India, was called in to appraise the assets of the American Foreign Power Corporation in Colombia, and obtained a commission from the World Health Organization to review and report on a water treatment and sewage disposal project in Mongolia.

Hume Industries (Far East) Limited shipped 16,000 asbestos-cement pipes to Saigon for use in the domestic water supply system. The pipes were made available under the American Aid Program, through the Agency for International Development.

Stolley and Orlebeke, Inc., Elmhurst, Illinois, has been appointed manufacturers representative in the Chicago area for *Sturtevant Mill Company.* Sturtevant is a major manufacturer of

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PERSONNEL NEWS

ABEX CORPORATION

Richard A. Pinto, Vice President of Sales, Engineered Products Division.

BIRD & SON, INC.

Kenneth M. King, Jr., Vice President-Special Services.

CAPE ASBESTOS FIBRES LIMITED

Rupert St.G. Riley, retired as Chairman and Managing Director; *Dr. Richard Gaze,* Chairman; *John R. Owens,* Managing Director.

PHILIP CAREY CORPORATION

H. R. Palmer, Senior Vice President; *A. R. Morgan,* Director of Research; *Paul R. Antoun,* Assistant Director of Research; *Robert J. Gaskins,* Director of Transportation; *J. W. Adams,* General Manager, Industrial Insulation Contract Division.

CERTAIN-TEED PRODUCTS CORPORATION
PIPE DIVISION

Stanley Price, Vice President-Marketing; *Lloyd C. Ambler,* Sales Engineering Manager, Marketing Department; *Alvin I. Leff,* Manager of Quality Control and Standards; *Clyde R. Hutchcroft,* Technical Materials Manager; *William A. Hild,* Process Engineering Manager.

GAF CORPORATION

Raymond J. Wilcox, District Sales Manager, Building Products Division; *Peter J. Lavelle,* Advertising and Promotion Supervisor for Building and Floor Products.

JOHNS-MANVILLE CORPORATION

Dr. Fred L. Pundsack, Vice President, J-M Products Corporation (Dr. Pundsack is Director of Division and Corporate Research and Development for J-M); *Chester J. Sulewski,* Manager for Long Range Planning and Growth, Pipe Division.

NATIONAL GYPSUM COMPANY

Andrew L. Lewis, Jr., Assistant to the Chairman of the Board; *Edward J. Killian,* Divisional Vice President-Manufacturing Operations, succeeding *Leonard L. Hank* who will retire March 31, 1969. To provide for an orderly transition of duties, Mr. Hank will continue as Senior Vice President-Operations with staff responsibilities.

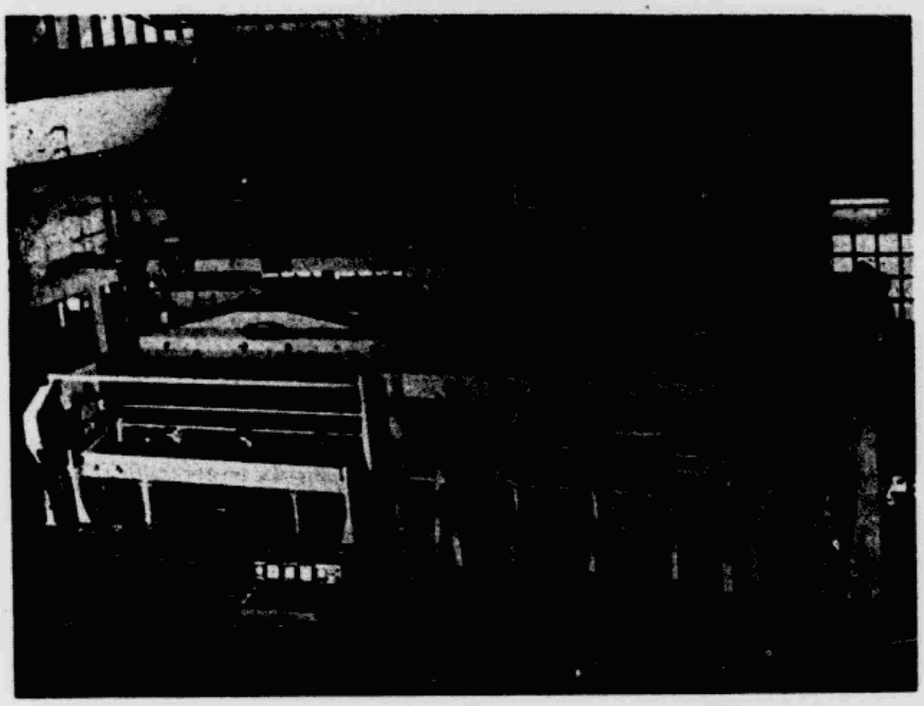
H. K. PORTER COMPANY, INC.

Rafael Conde V., General Director, H. K. Porter Company de Mexico, S.A.

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ASBESTOS STOCK QUOTATIONS

Close—December 31, 1968

Advocate	*$3.10	G-Alden (pfd 3)	134
Asarco	90	G-Alden (pfd 2.25)	66
Armstrong Cork	77¾	Grace	49½
Asbestos Corp.	*25⅛	Gulf & Western	49⅞
Bendix	49	G&W (pfd 1.75)	156⅝
Bendix (pfd 3)	75½	G&W (pfd 3.50)	197
Carlisle	33¼	G&W (pfd 3.87)	83
Cassiar	*$15.25	G&W (pfd 5.75)	76⅜
Certain-teed	34½	Johns-Manville	87¼
C-teed (pfd .90)	34¼	Maremont	20½
Conwest	*$9.50	National Gypsum	59
Flintkote	30¼	Natl Gypsum (pfd 4.50)	73¼
F-kote (pfd-A 4.50)	89¼	Patino	*$34.00
GAF	31	Raybestos	59⅞
GAF (pfd 1.20)	40¼	Unarco	17¾
Garlock	25½	Union Carbide	45¼
Glen-Alden	19¼	Uniroyal	59½
G-Alden (pfd 3.15)	145⅜	Uniroyal (pfd 8)	123

*Canadian currency

Lonrho Limited has been prospecting an asbestos property at Emlembe, Swaziland, adjacent to the Havelock Mine, to determine whether or not it would be economically feasible to open a new asbestos mine in the area.

Hammersley Iron Pty. Ltd. is to investigate the feasibility of reactivating the Blue asbestos mining property at Wittenoom, Australia, which was closed down in 1966 when the Wittenoom mine was sold to the Australian partnership of Hancock and Wright.

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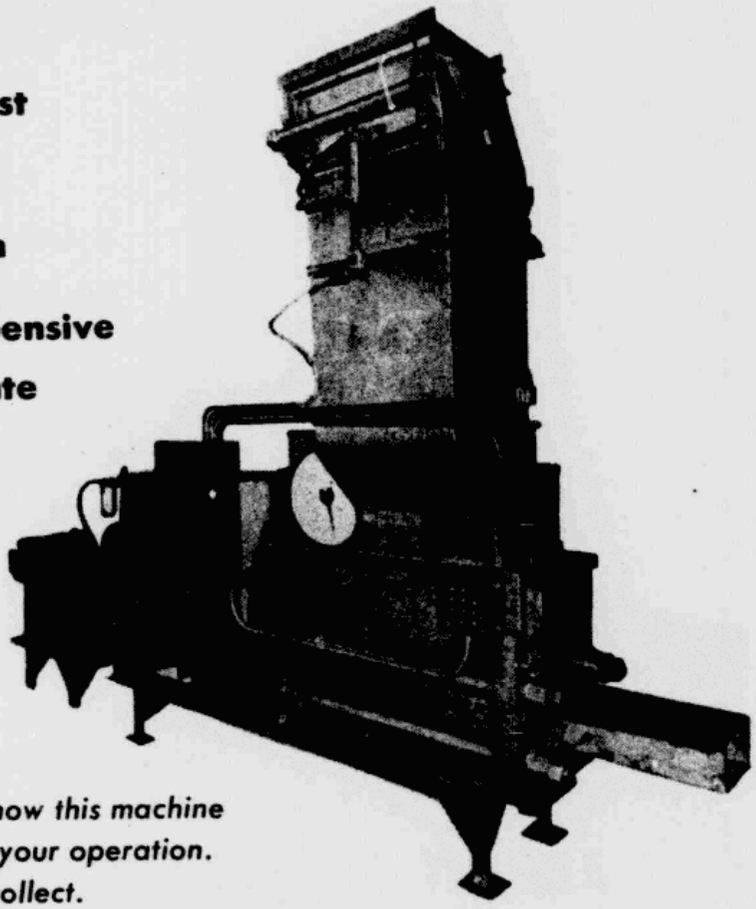
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ASBESTOS PRICES

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

(As of August 1, 1968)

	U. S. Dollars
No. 1 Crude	$1,410.00 to $1,650.00
No. 2 Crude	700.00 to 950.00
AAA	.. 800.00
Group No. 3 (non-ferrous filtering-plastic)	425.00 to 700.00
Group No. 4 (non-ferrous filtering-plastic)	400.00 to 500.00
Group No. 5 (non-ferrous filtering-plastic)	385.00 to 425.00
Group No. 6 (non-ferrous plastic)	.. 250.00
Group No. 7 (white shorts)	65.00 to 90.00

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

(As of January 1, 1969)

	Canadian Currency
Crude No. 1	$ .. $1,480.00
Crude No. 2	.. 800.00
Group No. 3 (spinning fiber)	385.00 to 630.00
Group No. 4 (shingle fiber)	212.00 to 360.00
Group No. 5 (paper fiber)	152.00 to 180.00
Group No. 6 (waste, stucco or plaster)	.. 110.00
Group No. 7 (refuse or shorts)	50.00 to 92.00

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

(As of January 1, 1968)

	Canadian Currency
AAA grade (non-ferrous spinning fiber)	$ 810.00
AA grade (non-ferrous spinning fiber)	643.00
A grade (non-ferrous spinning—Canadian Group 3)	484.00
AC grade (asbestos-cement—Canadian Group 4)	345.00
AK grade (shingle fiber—Canadian Group 4)	241.00
CP grade (shingle fiber—Canadian Group 4)	220.00
AS grade (shingle fiber—Canadian Group 4)	200.00
CT grade (shingle fiber—Canadian Group 4)	195.00
AX grade (shingle fiber—Canadian Group 5)	177.00
CY grade (shingle fiber—Canadian Group 5)	126.00
AY grade (shingle fiber—Canadian Group 5)	126.00

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

(As of January 1, 1969)

	U. S. Dollars
Group No. 3 (spinning & filtering)	$ 356.00 to $ 382.00
Group No. 4 (shingle fiber)	195.00 to 331.00
Group No. 5 (paper fiber)	143.00 to 165.00
Group No. 6 (waste, stucco or plaster)	.. 106.00
Group No. 7 (shorts & floats)	49.00 to 89.00

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Remittance should be in coin, currency, or check and the number of the patent, name of inventor and date of issue should be shown.

U.S. Patents issued from November 19 through December 10, 1968.

3,411,926—Joint Cement, J. L. Gogek & D. L. Wilhelm (assigned to A. E. Staley Manufacturing Company, Decatur, Illinois), November 19, 1968.

3,415,456—Method and Apparatus for Dry Defibering of Fibrous Materials. H. Bidwell, December 10, 1968.

Ontario Department of Mines has issued its "Annual Report For The Year 1966." It is the 76th such report and contains complete statistics of the mineral industry and mining operations in the Province of Ontario in 1966. Included is a chapter on "Asbestos" which gives production figures and information on "Hedman Mines Limited" and "Johns-Manville Mining and Trading Limited."



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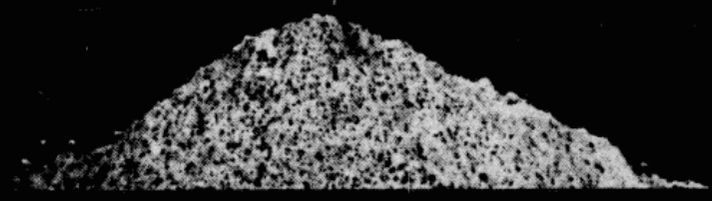
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Dallas	Thompson-Hayward Chem. Co.
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Denver	Plateau Supply Co.
Des Moines	Thompson-Hayward Chem. Co.
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Los Angeles	E. S. Browning Co.
Memphis	Thompson-Hayward Chem. Co.
Milwaukee	Sprinkmann & Sons
Minneapolis	Thompson-Hayward Chem. Co.
Mobile	Wittichen Chem. Co.
Montgomery, Ala.	Wittichen Chem. Co.
New Orleans	Thompson-Hayward Chem. Co.
Oklahoma City	Thompson-Hayward Chem. Co.
Omaha	Thompson-Hayward Chem. Co.
Philadelphia	George A. Rowley & Co., Inc.
Pittsburgh	McCann-Shields Paint Co.
Shreveport	Thompson-Hayward Chem. Co.
St. Louis	Thompson-Hayward Chem. Co.
San Francisco	E. S. Browning Co.
Trenton, N. J.	H. M. Royal, Inc.
Tulsa	Thompson-Hayward Chem. Co.
Wichita	Thompson-Hayward Chem. Co.
Winchester, Mass.	W. D. Egleston Co., Inc.