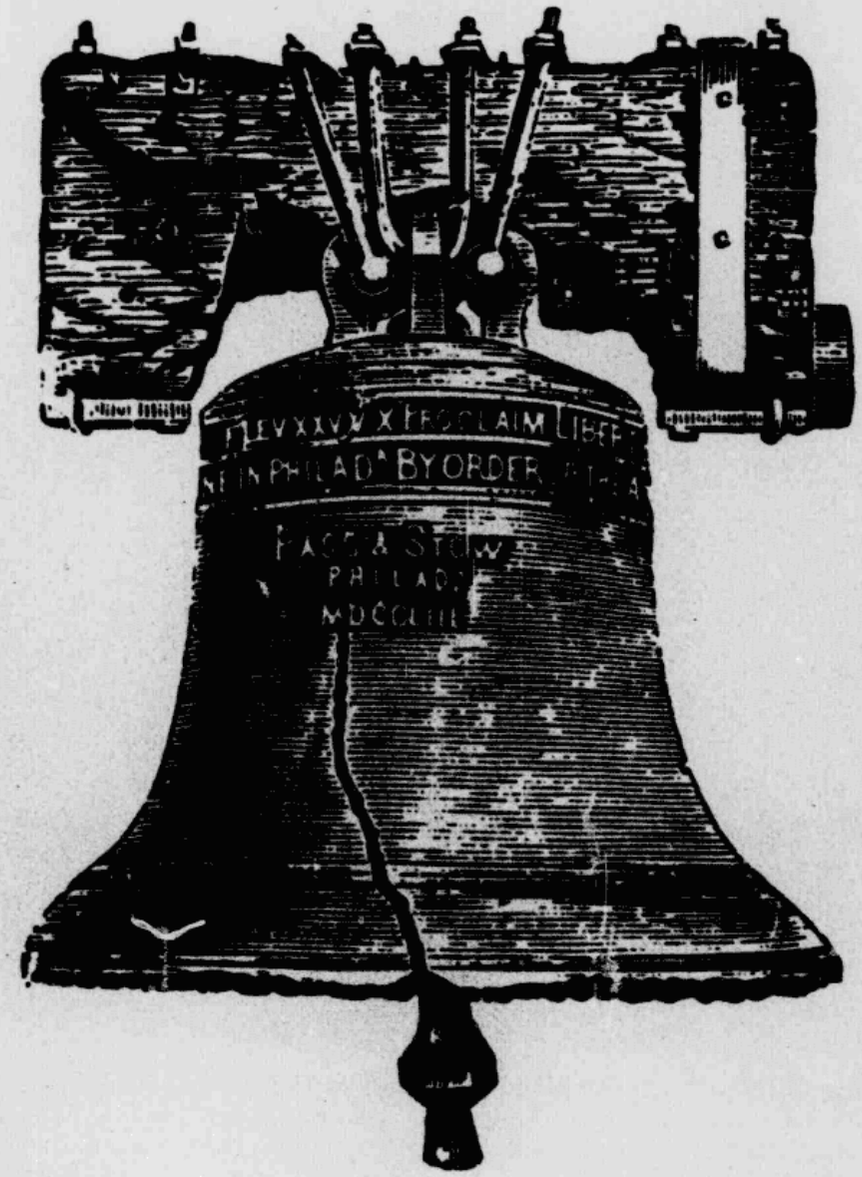


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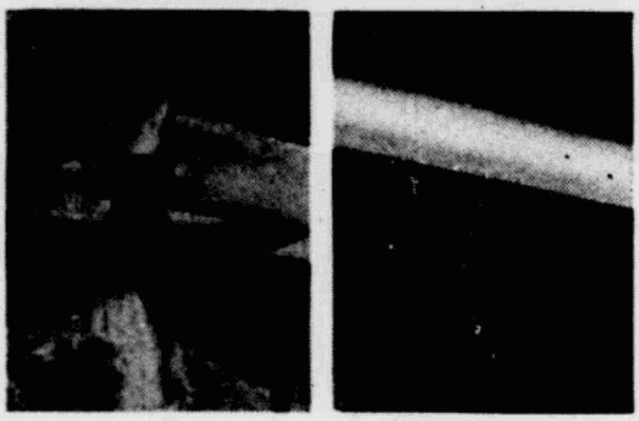
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VOLUME 50 JULY 1968 NUMBER 1

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ASBESTOS IN CALIFORNIA

(Editor's Note: The following was taken almost in its entirety from the Chapter on Asbestos, by S. J. Rice, which appeared in Bulletin 191—Mineral Resources of California, 1966, published by the California Division of Mines and Geology. Wherever possible, we have added information from the files of ASBESTOS to establish complete and current statistics and other data.)

USES, MINERALOGY AND GEOLOGY

Asbestos is one of the few important nonmetallic minerals that the United States largely imports from foreign sources. Of the 794,708 short tons apparently consumed by the United States in 1965, only 118,275 short tons were produced from domestic deposits. Most of the remainder was imported from Canada.

Certain grades of asbestos are indispensable to the construction and transportation industries and all grades occupy important places in the general industrial economy. Most of the important uses of asbestos are based on the fact that it has physical characteristics similar to those of organic fibers, yet it is both noncombustible and noncorrosive. As used in the manufacture of numerous products, asbestos acts as a reinforcing agent or as a friction or insulation material. The principal use is in the manufacture of asbestos-cement products such as pipe, shingles, wallboard and corrugated sheets. Large quantities also are used in the manufacture of vinyl and asphalt floor tiles, friction materials such as clutch facings and brake linings, insulation materials and gaskets. Smaller amounts of the spinning grades of strong-fiber varieties are woven into asbestos fabrics for various special uses.

The word asbestos is not a mineral name, but a term applied to several naturally fibrous minerals that are used primarily because of their fibrous characteristics. These minerals include Chrysotile, Crocidolite, Amosite, Anthophyllite and Tremolite.

Chrysotile is the most important asbestos mineral and accounts for the major portion of the world's asbestos production. Good quality Chrysotile fibers are silky, highly flexible and have a tensile strength somewhat greater than that of silk. It occurs only in serpentine, a fine-grained rock composed almost entirely of hydrous magnesium silicate minerals similar to Chrysotile in composition. Almost all masses of serpentine contain Chrysotile, most commonly in cross-fiber

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veins that rarely are more than one-half an inch thick. In some places, however, the fibers lie along faults or shear planes and are not so apparent. Only rarely is Chrysotile sufficiently abundant in the rock to constitute an asbestos orebody. Although some Chrysotile fibers are as long as three-quarters of an inch or more, most of the fibers are very short (less than one-sixteenth of an inch) and clean extraction of the asbestos requires complicated and expensive milling equipment. Therefore, a large volume of fiber rich rock is required for a commercially valuable orebody. About 40% of the world production of Chrysotile comes from cross-fiber deposits in a relatively small district in the Province of Quebec, Canada. The discovery of these rich deposits in 1877 laid the foundation of the modern Asbestos Industry. Substantial amounts of Chrysotile are produced from similar deposits in the U.S.S.R. and Africa. Chrysotile is also located in many other countries including Cyprus, Australia, China, India, Italy, South America and the United States.

Amphibole asbestos is a general term for all varieties other than Chrysotile. These are all members of an exceedingly common group of rock-forming silicate minerals characterized by perfect prismatic cleavage. Only a few of the Amphibole minerals, principally those that are aluminum-poor, become sufficiently fibrous to be used as asbestos. These are Crocidolite, Amosite, Anthophyllite and Tremolite.

Crocidolite (Blue) asbestos is principally found in the Republic of South Africa but lesser quantities have been produced in Australia and Bolivia. Commercial deposits of this variety have not been located in California.

Amosite, a yellowish-brown, long-fiber variety of asbestos, is produced in Africa and has not been found elsewhere. Both Crocidolite and Amosite occur as cross fiber veins in metamorphosed sedimentary rocks rich in silica and iron and both have strong fibers.

Anthophyllite asbestos fibers usually occur in massive deposits derived by metamorphism of peridotite. The fibers have no preferred orientation but are arranged in bundles of varying sizes oriented at random. Deposits of this type have been discovered in Finland, Georgia, Maryland and North Carolina. In California, long-fiber Anthophyllite occurs as veins along faults in serpentine and the fibers are oriented

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roughly parallel to the walls of the veins. The latter mode of occurrence is characteristic also of *Tremolite* asbestos deposits in California and, in this environment, the two varieties cannot easily be differentiated. Tremolite is also found in Maryland and its qualities are excellent for filtering purposes.

HISTORY OF CALIFORNIA ASBESTOS DEPOSITS

Although asbestos has been mined sporadically in California since 1887, a full-fledged asbestos industry did not emerge in the State until 1960. This dramatic emergence is demonstrated by the following production figures. Prior to 1960 only 9,049 short tons, valued at $331,454, had been produced whereas production during the interval 1960-1964 was 87,782 short tons, valued at $6,412,764. For the 1965-1966 period, production reached 156,258 short tons, valued at $13,122,000. The estimated production figure for 1967 is 78,000 short tons, valued at $6,663,000.

During and immediately after World War I, when asbestos prices were high, attempts were made to develop Chrysotile deposits in California, particularly those near Copperopolis, Calaveras County, and Washington, Nevada County. These operations failed largely because there was only a very limited market for asbestos on the Pacific Coast at that time. For the Eastern market, transportation rates made fiber from the Pacific Coast area noncompetitive with asbestos fiber from Quebec.

The recent surge of development of California deposits was stimulated by the post-World War II population and industrial boom on the West Coast. Several new plants for the manufacture of asbestos products were constructed in California and older plants were enlarged. The principal asbestos products manufactured in the State utilize the shorter grades of Chrysotile that can be produced in abundance in California. This growing demand resulted in extensive exploration of deposits in Calaveras, Fresno and San Benito Counties in 1959 and 1960. Late in 1961 the first modern asbestos mill in California went into operation and by 1964 four asbestos mills had been constructed to process ores from these deposits. Thus, the production of asbestos is now making a significant contribution to California's economy. In fact, this recent growth has made the State the leading as-

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bestos producer in the United States.

It is interesting to note that reference is made to the marketing of California asbestos in the February 1968 issue of "Mineral Information Service," a publication of the California Division of Mines and Geology. It is stated that although a major stimulus for the recent development of California asbestos deposits was the large potential market for fiber in the California area, most of the asbestos produced to date has been marketed outside the State. The fiber is shipped to floor tile plants in the eastern, midwestern and southern States and exported to India, Australia, the Philippines and other Pacific areas. Only in the last two to three years have some California markets been captured. Most asbestos used in the California manufacturing industry is still imported from Canada.

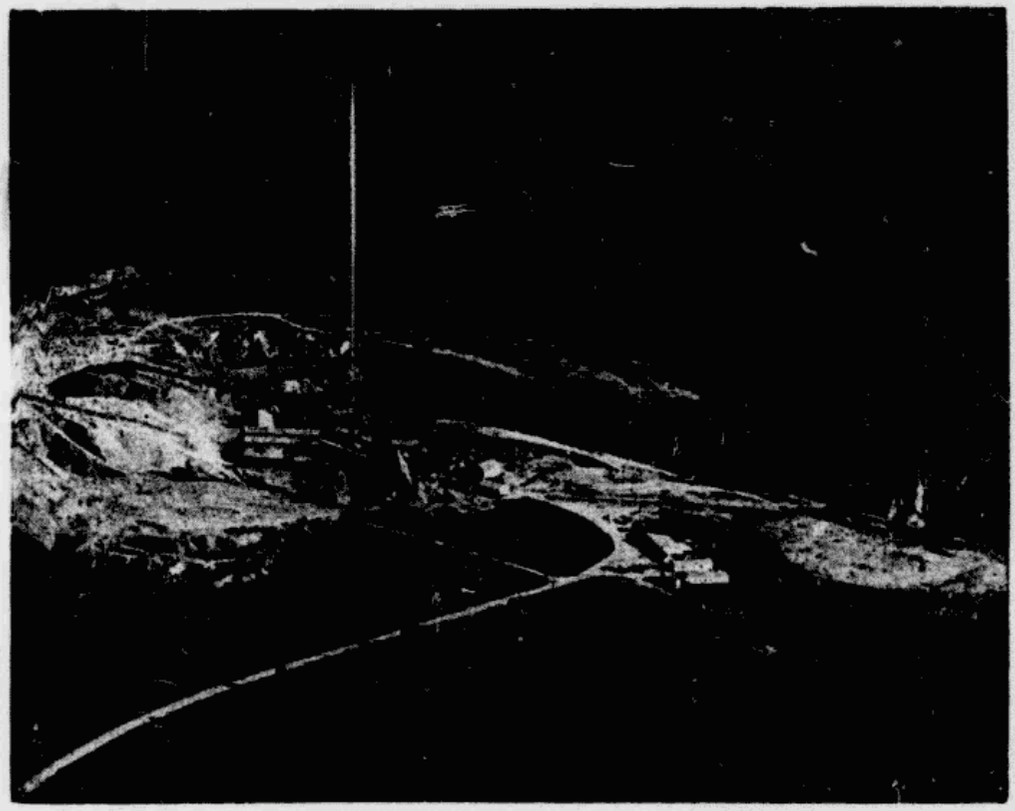
OCCURRENCES IN CALIFORNIA

Serpentine, the principal host rock for asbestos deposits, is abundant in California and asbestos has been found at numerous localities in the State. Most of the deposits that have been worked have been described by F. J. Wiebelt and M. C. Smith, 1959, in "A Reconnaissance of Asbestos Deposits in the Serpentine Belt of Northern California: U.S. Bureau of Mines Information Circular 7860." Only four areas contain deposits of Chrysotile asbestos that are presently being mined.

Copperopolis—The first Chrysotile asbestos deposit worked in California is located 7 miles southeast of Copperopolis, Calaveras County. This deposit is similar to those in Quebec in that the Chrysotile occurs as stockworks of cross fiber veins in massive serpentinized peridotite. Width of the veins is highly variable, from less than 1/32 of an inch to about one inch, but only a small percentage of them will yield fibers more than one-quarter of an inch long. The orebody apparently occupies the crest of an anticline in a large sill of serpentine. Although several unsuccessful attempts were made to develop this deposit in the early 1900's, it was not until 1959 that it was thoroughly explored by trenching and core drilling. This work indicated an elliptical-shaped orebody some 1,800 feet long and 375 feet in average width. Sufficient tonnage was proved (more than 20,000,000 tons of ore con-

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taining about 6½% asbestos) to indicate a commercial deposit. In 1962, Jefferson Lake Sulphur Corporation (now Pacific Asbestos Corporation) constructed a 2,500-ton per day asbestos mill at this property. Pacific Asbestos was one of the four producers of Chrysotile Asbestos in California during 1967.

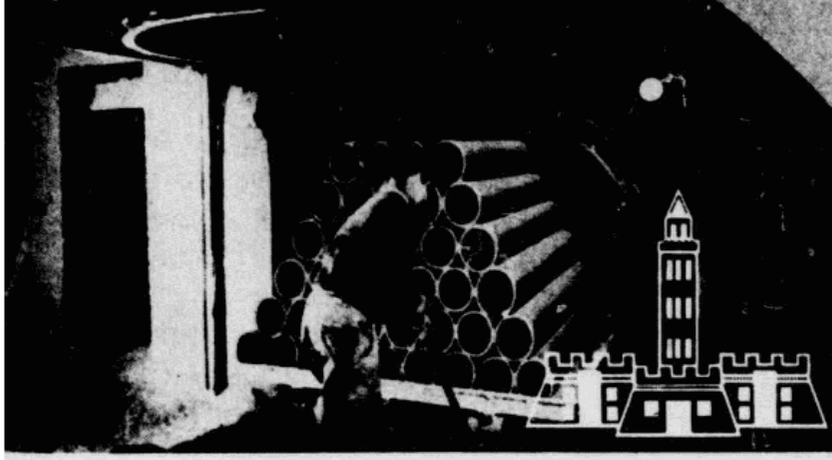
Napa—A deposit of cross-fiber Chrysotile asbestos in sheared serpentine, about 18 miles northeast of Napa, was the site of a small asbestos operation during World War II and during the middle 1950's. The veins are narrow, ordinarily yielding fibers less than 1/16 of an inch long so that only the shorter fiber grades can be recovered from the rock. A 40-ton per day mill installed on the property in the early 1940's was inadequate for modern operations. Therefore, Asbestos Bonding Corporation built a new mill in 1959 to process approximately 125 tons of ore per day.

Coalinga—A large asbestos deposit is located in a serpentine mass which runs approximately fourteen miles long and four miles wide in the southern Coast Ranges, some 20 miles northwest of Coalinga, Fresno County. The bulk of this mass has been highly sheared and much of the serpentine recrystallized to flaky, matted Chrysotile along the closely spaced shear planes. Cross fiber veins are rare in this deposit and the recoverable fiber is all short but the Chrysotile content is very high and in some places exceeds 50%. Fiber produced from this deposit has attributes that promise an interesting future for the district. Among these, Coalinga fiber is superior to Canadian short fiber in whiteness and in its ability to absorb hydrocarbons.

The commercial asbestos potential of this enormous deposit, which contains an estimated 100 million tons of ore or more, was not recognized until 1959 when Union Carbide Nuclear Company began filing mineral claims in the area, then largely open Federal land. Other companies soon were attracted to the area and by 1965 three mills having an aggregate productive capacity of about 50,000 tons of fiber per year were in operation. During 1967, companies active in the area in Fresno and San Benito Counties were Atlas Minerals Corporation, Union Carbide Nuclear Company and Coalinga Asbestos Company (jointly owned by Johns-Manville Corporation and Kern County Land Company.)

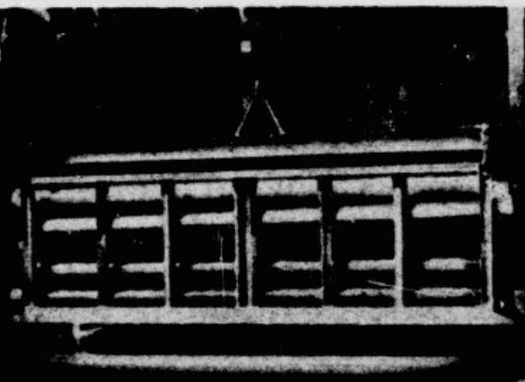
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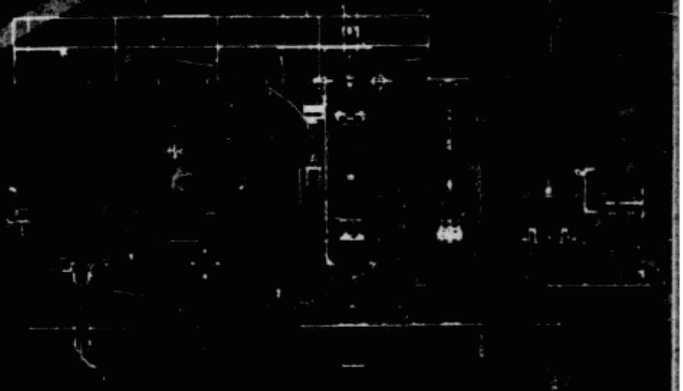


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Recent discoveries and commercial development indicate a good potential for new asbestos properties in California. The total outcrop area of serpentine in the Coast Ranges, Sierra Nevada and Klamath Mountains is about 2,000 square miles and significant portions of this have not, as yet, been prospected for asbestos. It seems probable that more discoveries will be made of Coalinga-type deposits in the southern Coast Ranges. Also, many interesting Chrysotile prospects in the serpentine masses in Shasta, Trinity and Siskiyou Counties suggest that this relatively remote area is a promising one.

ASTM OFFICERS & DIRECTORS—The following men were elected as the new national officers of the *American Society for Testing and Materials* for the year 1968-69: President—Harold N. Bogart of Ford Motor Company, succeeding Frank J. Mardulier of W. R. Grace & Company; Vice President—Raymond B. Smith of Reynolds Metals Company; and Vice President—L. Stanley Crane of Southern Railway System.

The new members of ASTM's Board of Directors elected for a three year term are: William E. Andrus, Jr., IBM Corporation; Daniel Chaucer, R. H. Macy & Company, Inc.; John E. Hanna, Canadian Government Specifications Board and Department of Defense Production, Ottawa; Malcolm W. Jensen, National Bureau of Standards; Rudard A. Jones, Building Research Council, University of Illinois; and Emil G. Wiest, E. I. du Pont de Nemours & Company, Inc.

ASTM will hold its Fall Meeting and Materials Testing Exhibit at the Marriott Motor Hotel, Atlanta, Georgia, September 29 to October 4, 1968.

JOHN C. POLLOCK has been appointed Executive Director of the *Insulation Distributor-Contractors National Association*. Mr. Pollock has over eight years of experience as a major department head of the National Association of Home Builders and has been a recognized authority on new home marketing for the past sixteen years.

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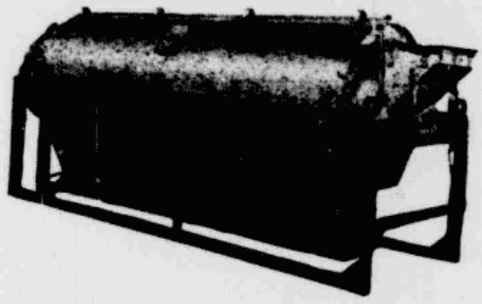
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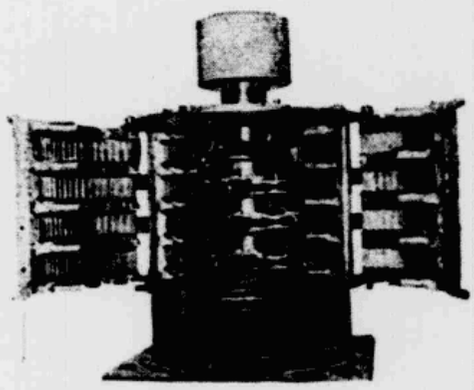
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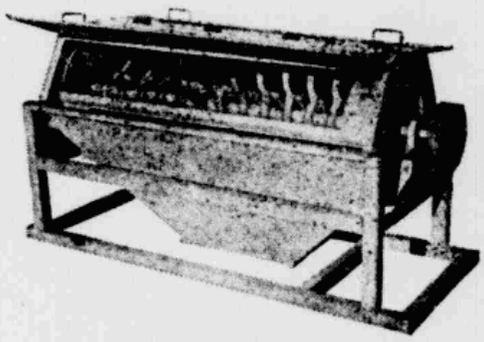
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United Nations Assisting in Bolivia

The United Nations Industrial Development Organization, a Participating and Executing Agency of the United Nations Development Programme (UNDP) is assisting in the developing of Bolivia's asbestos industry.

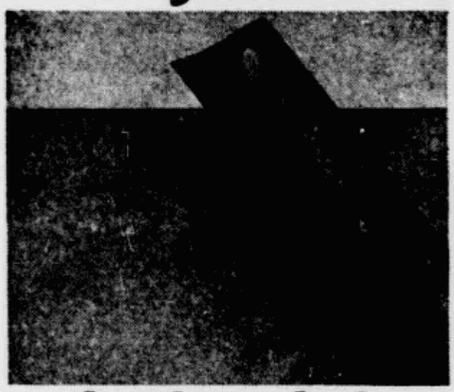
An asbestiferous zone containing ore deposits with from 5-9% asbestos content is located in the Alto Chapare region of Bolivia. Many small mines exploit these deposits on a reduced scale and the overall production varies between 100 and 900 tons annually. The national market absorbs about 150 tons of this production and the remainder is exported. The Government of Bolivia believes the amount of exports could greatly increase with an improvement in the processing and classification of asbestos fibers and has carried out partial geological surveys which have established that there are reserves of a minimum of 300,000 tons of 9% ore in 18 of the 40 deposits presently being worked. Laboratory studies have indicated the asbestos to be a good quality Crocidolite with chemical and physical characteristics which make the fiber suitable for processing.

The UNDP is presently initiating a two-year project to assist in the establishment of an experimental production plant for asbestos processing in Cochabamba and to develop the national and export market for asbestos fiber and products. It will also stimulate investment by providing financial and technical assistance to develop and modernize the exploitation of asbestos deposits and to develop new industries requiring processed raw asbestos. The experimental plant will determine whether or not the Bolivian asbestos industry can become competitive both nationally and internationally. It will have a capacity of 1,500 tons of fiber per year of which, initially, 650 tons will be for domestic consumption and the remainder will be for export. The plant will consist of equipment for crushing, fiberizing, air separation, classifying, screening, drying and handling. In addition, the plant will be equipped with a laboratory.

Bolivia is presently constructing an asbestos-cement plant in Cochabamba for the manufacture of flat and corrugated sheets. Initially, this plant will utilize about 500 tons a year of Bolivian Crocidolite. Sociedad Asbestera Boliviana has

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been established by the Bolivian Government to further the exploitation and industrial development of the country's asbestos resources. An expert financed by the Technical Assistance component of the UNDP aided in the implementation of this project.

DR. E. H. E. ANDREAS, Owner of HAZEMAG, Munster (Westphalia), Germany, has received the Certificate of Investiture for the "Cross of Merit, First Class" of the West German Federal Order of Merit. This honor was conferred upon Dr. Andreas in recognition of special services rendered to the State and to the People of West Germany.

JOHN W. HUMPHREY, Chairman of the Board, Philip Carey Corporation, has been appointed Chairman of the National Association of Manufacturers' Area Development Program Group of the Area Industrial Problems Committee. In conjunction with this appointment, Mr. Humphrey has also been named Chairman of an interim committee to begin solving low-income housing needs in Cincinnati, Ohio.

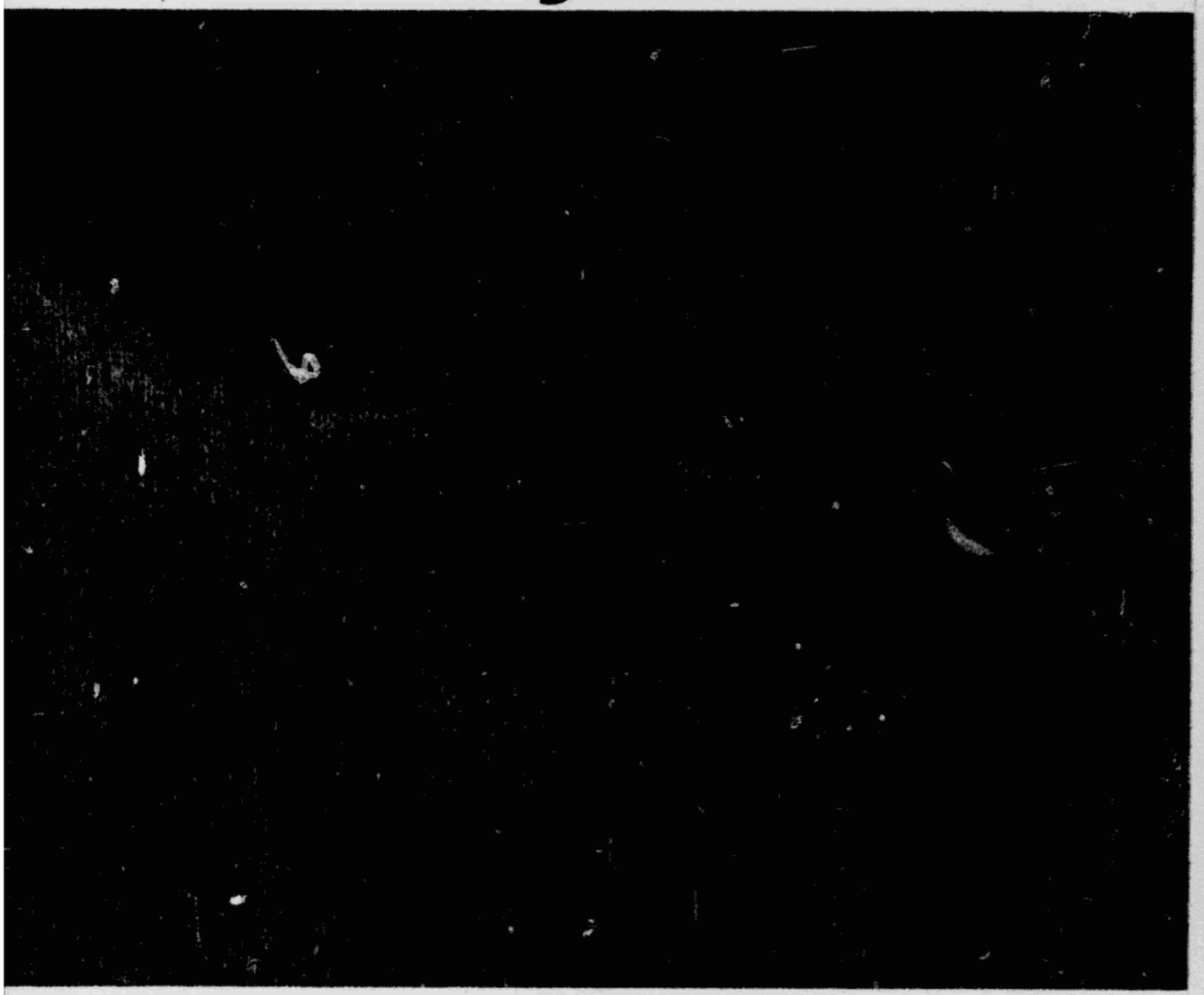
SIR WILLIAM PERRY, Director of *Hume Industries (N. Z.) Limited* died March 20, 1968, at the age of 82. Sir William had been Chairman of Directors of Hume (N. Z.) from the company's incorporation in 1951 until 1967.

CHARLES ROSS NEAL, age 73, passed away in Globe, Arizona, May 23, 1968. Mr. Neal had retired as President of *Metate Asbestos Corporation* in 1958 having organized the company in 1952. He began his career in asbestos mining and milling in 1932 and built and operated the Phillips Asbestos Mill in Gila County, the Apache Mill and Bear Canyon Mill. He also operated the Bear Canyon, Emsco, Crown, Apache and Lucky Seven Mines. The new Central Mill in Globe, Arizona, which is still in operation, was also built by Mr. Neal. Mr. Neal will be greatly missed by his many friends and associates.

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ATI General Meeting

The Asbestos Textile Institute held its second General Meeting of the year at The Regency Hyatt House, Atlanta, Georgia, June 6 and 7, 1968.

Included in the activities was a meeting of the four working committees and detailed reports of their efforts were presented by the respective chairmen.

P. Jay Flocken, of Cadwalader, Wickersham & Taft, Legal Counsel for the Institute, commented on the great number of business mergers in recent years and gave his interpretation of current Government merger guidelines.

Wm. J. W. Smith, Director, Vice President & General Sales Manager of Bell Asbestos Mines Ltd., reported on the present situation of the supply of asbestos fiber, the rate of production of mines in Canada, business conditions in world markets for asbestos fiber and prospects for the balance of this year.

The principal speaker was Dr. G. R. Cuthbertson, Technical Director of the Fiber and Textile Division of Uniroyal, Inc. Dr. Cuthbertson's talk was entitled "The Acceleration of Textile Technology" and those in attendance found it well prepared and extremely interesting.

The next general meeting will be held at the Hotel Hershey, Hershey, Pennsylvania, October 3 and 4, 1968.

SHAKE-SHIELD is a new asbestos felt specifically researched and developed by *Philip Carey Corporation* as an underlayment and interlayment membrane for wood shingle and shake roofs to retard flame spread to the structure beneath. The new product is clear white to reflect heat and light and contains an ingredient which helps to prevent embrittlement. Continuous glass fiber reinforcing strands on ¼" centers throughout the full length of the sheet give added strength to resist tearing and puncturing. *Form 6849* is available from the company and contains facts and application data which are printed on an actual sample of this new asbestos felt.

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J-M MOLTEN METAL MARINITE—Huge coils of continuously-cast metal sheets made of aluminum and zinc are being produced in several foundries in the United States by a machine process called the Hunter Process. This method converts heated and liquified molten metal almost instantaneously into a strip. The key to the success of the continuous-casting process is attributed to *Johns-Manville Corporation's* Molten Metal Marinite which is a strong board insulation consisting of asbestos fiber, diatomaceous silica and a hydrothermally-produced inorganic binder. In the Hunter Process, Molten Metal Marinite is being used for launders, tap-out box, distributor and nozzles which convey, feed and cast the molten metal. The greatest advantage is that the sheets are not wetted by molten aluminum, zinc, lead or other non-ferrous metals. They do not adhere when they cool and solidify so there is no metal contamination. Operating costs in melting and casting operations can be reduced by low heat storage and high thermal efficiency at all stages. By minimizing heat losses during the process, it is unnecessary to add much additional heat to the holding furnace. (From Johns-Manville ACTION, Spring 1968 edition)

BEL-AIR ROOF SHINGLES, the asbestos roof shingles which simulate hand-split shakes, are described in a new four-page brochure from *Johns-Manville Corporation*. Booklet AS-204A, available free, contains full-color photographs which show the weathered, cedar-type shingles in a variety of situations from application to finished installations. Among the performance benefits described is the shingle's Class "A" Fire Rating from the Underwriters' Laboratories. Complete architectural specifications and product data are included.

PACIFIC ASBESTOS LIMITED has been approved as the new corporate name of the former *Merit Oil Ltd.* The company feels this new name more accurately reflects its activities. Pacific Asbestos Limited is presently testing its Woodsreef asbestos property in New South Wales, Australia.

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Building

From: McGraw-Hill Information Systems Company

DODGE FORECAST: Scarce credit and cutbacks in public spending in the second half of 1968 will lead to an erosion of some of the gains registered by the construction industry during the early months of the year. The final six months should bring the year's total construction values to $56.65-billion, a nominal 4% gain over the $54.54-billion the industry reported in 1967. Business-related construction is likely to pick up toward the close of the year. However, mortgage problems will slow housing activity in the second half and most types of public construction will feel sharp cutbacks in Federal spending. The "Revenue and Expenditure Control Act of 1968" will relieve inflationary pressures by reducing the combined spending power of all three sectors of the economy—consumer, business and government—by an annual rate of some $15-billion.

While the rate of housing starts might dip as low as 1.25-million during the second half, the year's total still can reach a level between 1.40 and 1.45-million if credit conditions by year-end permit the start of a strong upswing.

The pickup in business construction has already lost much of its impetus. Although many firms are operating somewhat below their optimum rates, industry as a whole intends to spend about 7% more for new facilities this year. Store and warehouse contracts may run into some financing problems but office building seems strong for the balance of 1968. Utilities will provide the biggest support with contract value exceeding the 1967 total by as much as 10%.

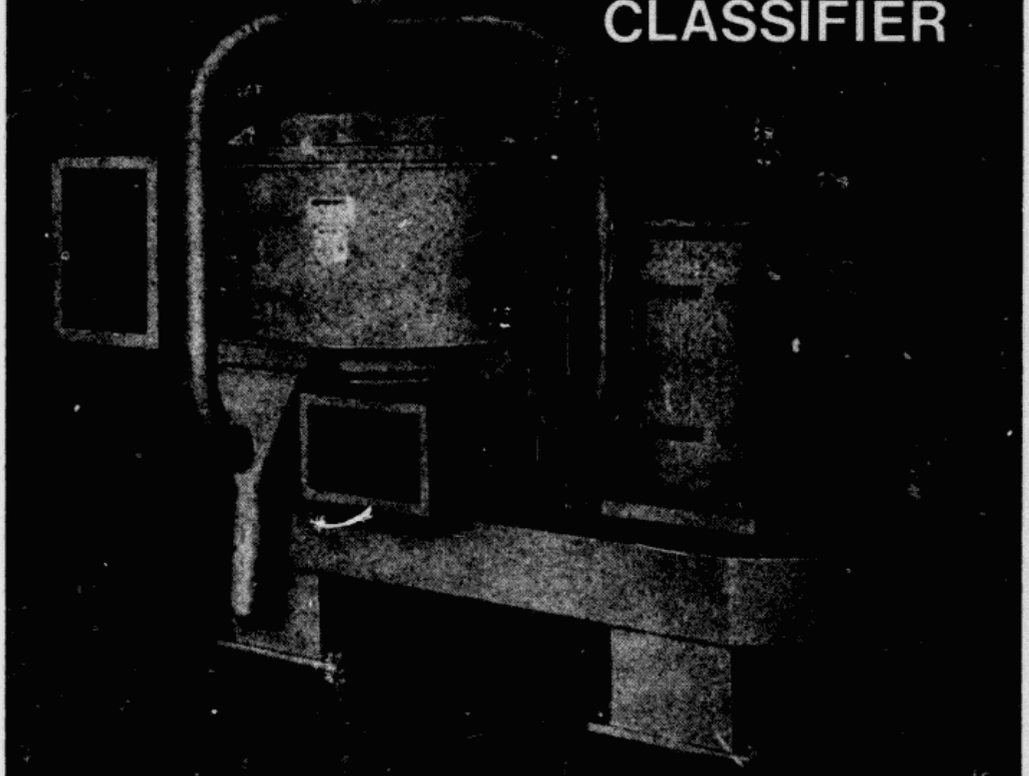
The second half outlook for institutional building is about in line with original 1968 forecasts: a pickup in hospital building but little expansion in education construction.

So far this year public facilities construction has piled up large gains. However, publicly-sponsored construction will lose a lot of its thrust since public works will be the prime targets for spending cuts as a result of the $6-billion budget reduction.

MAY 1968: Nonresidential, $2,227,237,000, up 23%; Residential, $2,542,976,000, up 17%; and Nonbuilding, $1,400,258,000, up 9%—Total Construction, $6,170,471,000, up 17% from the total value of contracts in May 1967.

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Automobile Sales

APRIL 1968 motor vehicle factory sales from plants in the *United States* totaled 941,697 (passenger cars — 782,706, trucks and buses — 158,991). The total for April 1967 was 792,188.

Motor vehicle factory sales from plants in *Canada* totaled 98,414 for April 1968 compared to 83,895 in April 1967.

McGRAW-HILL, INC. has acquired additional equity in *Photronix, Inc.* Photronix will become a subsidiary of McGraw-Hill and will be devoted primarily to the processing and marketing of the "SCAN Microfilm System" which provides subscribing construction industry business firms with microfilm copies of architects' blueprints and specifications.

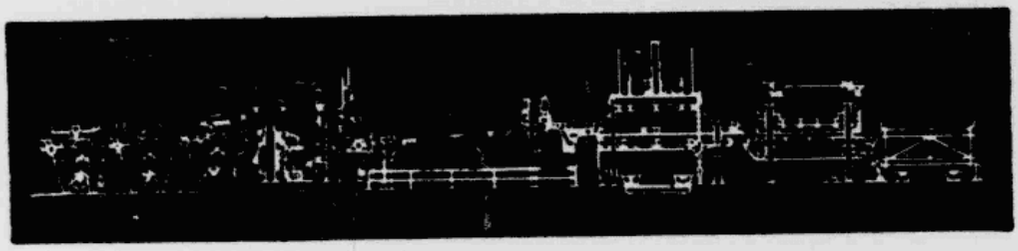
Mr. Philiip Berg, former President of Photronix, will form a new corporation to manufacture equipment for the SCAN operation and to produce and sell, under Photronix license, microfilm equipment to selected markets.

NHIC RESEARCH REPORT—The Research Committee of the National Home Improvement Council has reported, to the Council, the results of a research project conducted in cooperation with F. W. Dodge Company and Market Facts, Inc. The purpose of the project was to determine the size of the home remodeling market in the United States. The study indicates the dollar value of the single family dwelling market to be $12-billion, $5-billion over the U.S. Bureau of the Census estimate. The survey was designed not only to determine the dollar value of the products used but also the square footage and linear footage volume of products in various broad categories, since these last are factors unaffected by inflationary or downward trends. This compendium of information was obtained by the NHIC research team between July 1, 1966 and June 30, 1967 and represents residential additions, alterations, maintenance and repairs and replacements for owner-occupied single family

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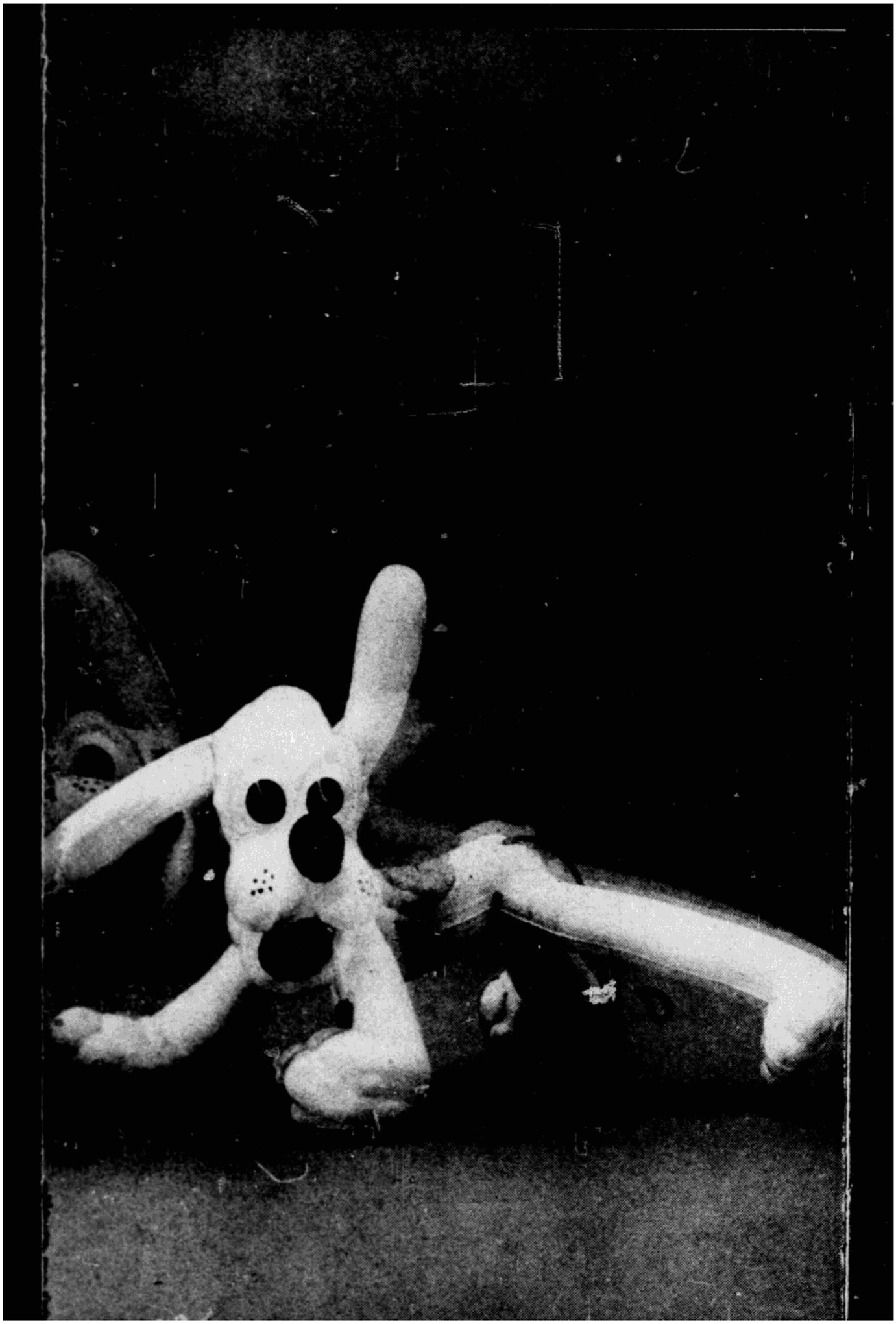
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MARKET CONDITIONS

General Business.

General business continues fairly stable despite the many uncertainties with which we are faced at the moment. Labor-management negotiations in the steel industry are continuing but have not reached the point where the union's wage demands have been put forward. Informed observers feel that, should these demands exceed a certain figure, management will find them completely unacceptable and a strike will almost certainly result. Should the strike be of short duration, which is widely predicted, steel production would drop sharply as users would start to work off the large inventories accumulated in recent months.

Passage of the 10% income tax surcharge, accompanied by the proposed cut in federal spending now seems almost certain. These deflationary moves should increase world-wide confidence in the dollar and, somewhat later, result in a reduction in interest rates which will lead to an improvement in such things as new housing starts.

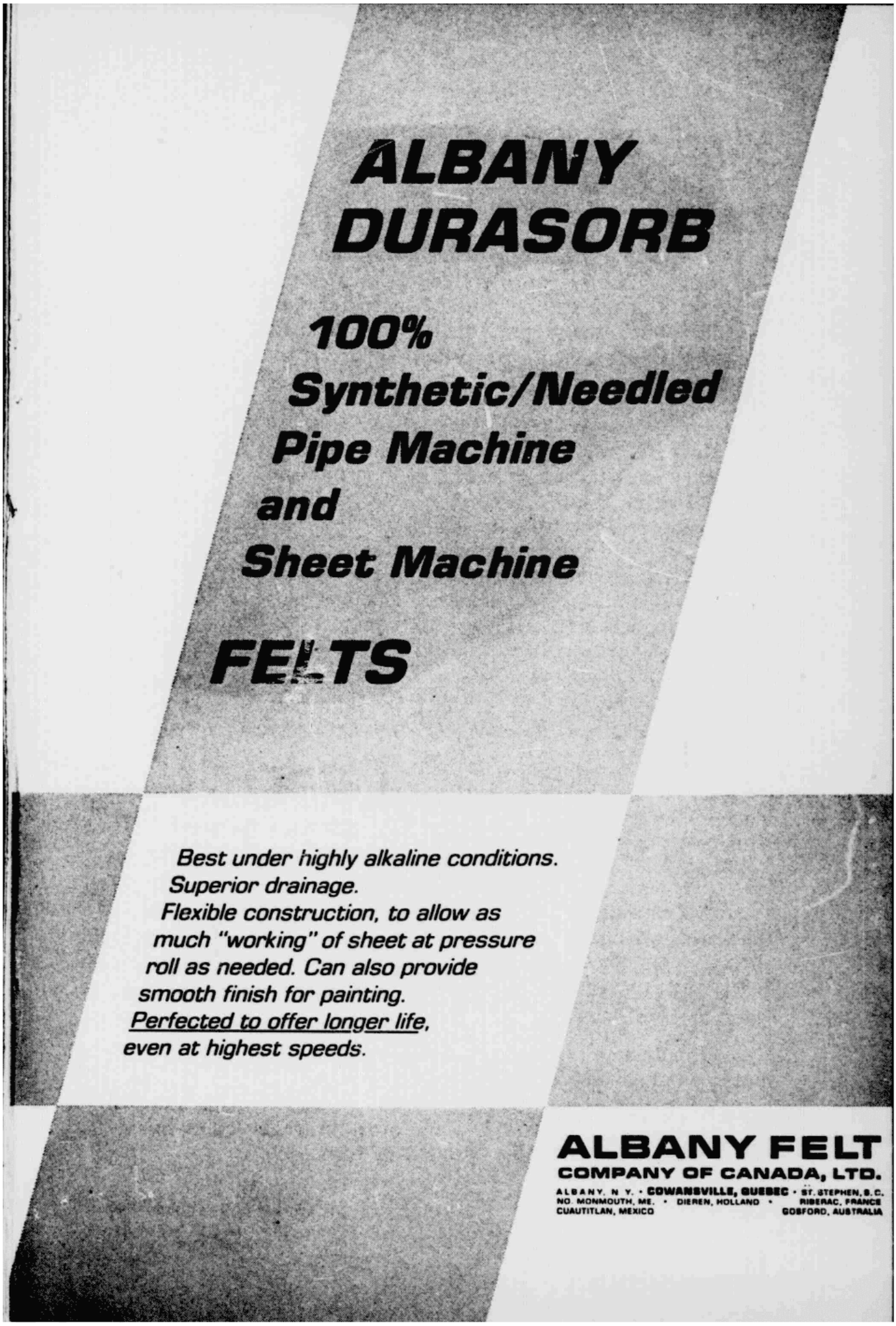
The stock market has been very active and new highs for the number of shares traded in one day have been recorded recently. Prices have been firm to higher on this heavy volume, indicating either real confidence in the future of corporate profits or an increase in out-and-out speculation.

On the political scene, the regrettable assassination of Senator Robert Kennedy has created even more confusion in an already confusing situation. At the moment, it would appear that Mr. Humphrey and Mr. Nixon will be their parties' choices for the Presidential nomination.

Internationally, the unrest in France has been of world-wide concern but preliminary election results indicate the Gaullists will continue in power by even wider majorities than heretofore.

The Paris negotiations on Vietnam are continuing with little or no progress reported to date. However, there is still hope that they will, in due time, lead to a cessation of hostilities which may enable this country to concentrate more of its brainpower, manpower and other resources on solutions to its domestic problems.

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Asbestos—Manufactured Goods.

Asbestos Textiles: The asbestos textile industry is presently operating at capacity on a majority of its products. Prices are firm. Sales volume for the first six months of this year should equal, and possibly exceed, that of the same period last year. There is considerable optimism, based on current order positions, that the present high demand will continue well into the second half of 1968. Deliveries in the third quarter however, will, as usual, be adversely affected by plant vacation periods.

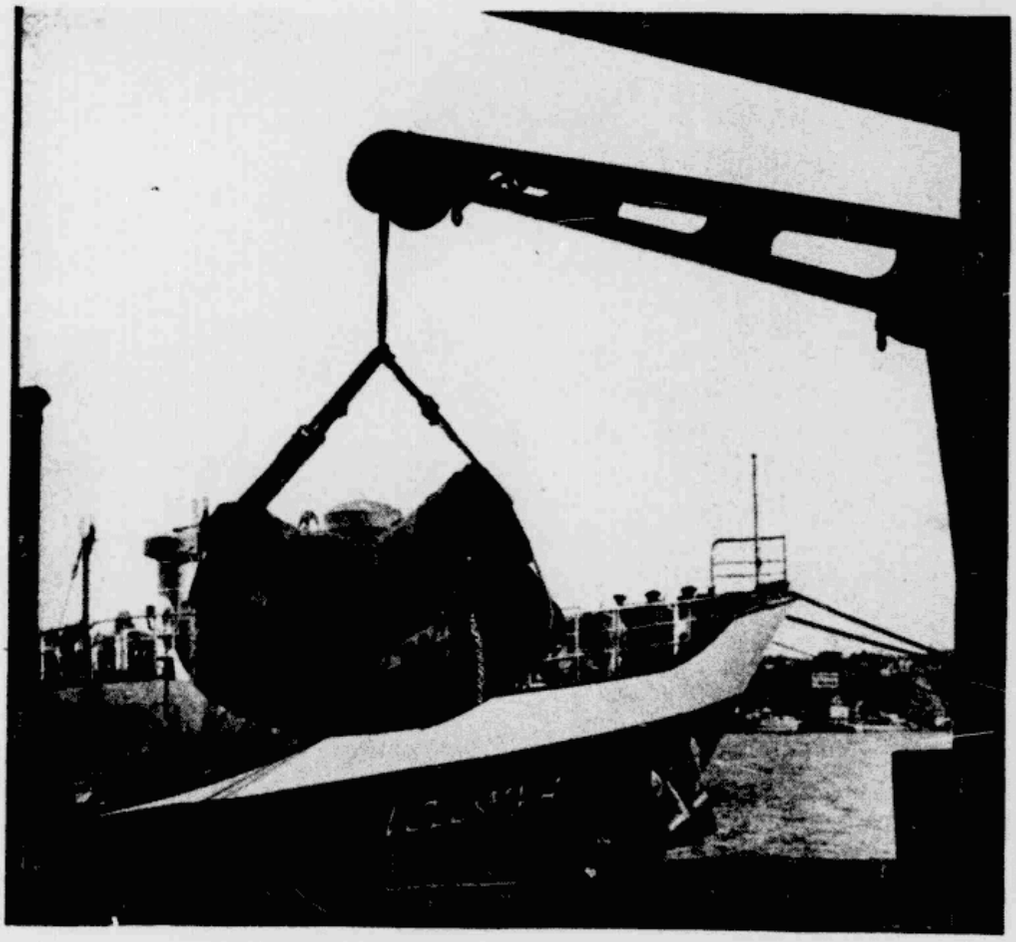
Asbestos Brake Lining: The current market for Friction Materials is strong. Sales are holding up well. Apparently, all the State and Federal proposed safety standards have made people more conscious of brakes and this is reflected in a strong replacement market situation. The outlook for the balance of the year is very good. There are no current signs to indicate any substantial decrease in volume in the near future. Factory sales of cars equipped with disc brakes have increased sharply during 1968. Should this trend continue, it is predicted that 1969 OEM sales of disc brake pads may well be double those of the current year. Replacement sales of such pads should also show a substantial increase.

Asbestos Felt: Demand continues strong but prices are weak. There is nothing to indicate a major change in this situation in the immediate future.

Flat: Sales of flat asbestos-cement sheets are slightly lower than last year. A pickup in sales, particularly in painted sheets, is expected but total volume for the year will probably be less than that of 1967.

High Pressure Insulation: The current market for these materials is strong and prices have moved upward recently. The current level of industrial plant expansion, particularly in the public utility power plant area, presages good business in this line for many months to come.

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Gold Bond
ASBESTOS FIBRES

Asbestos Magazine, 1968, July 1968
ACL Doc 12615 · Page 35 of 60

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Asbestos-Cement Shingles, Roofing & Siding: Despite the tight money situation, new construction activity is at a higher level that it was at this time last year. Should the expected deflationary effect of the new tax bill and reduced Federal spending make itself felt within a reasonable time, a reduction in interest rates might be made, resulting in an improvement in the residential building field. This should have a beneficial effect on the market for these materials.

Asbestos-Cement Pipes: Current market for these products shows signs of substantial improvement. Usage in public works remains steady and in housing projects demand has been quite strong. Reduced Federal spending and continued high interest rates could influence both these markets adversely. However, many municipalities are proceeding with public works financed by sales of their own bonds in the improved market for such issues so the outlook is still favorable for Asbestos-Cement Pipes.

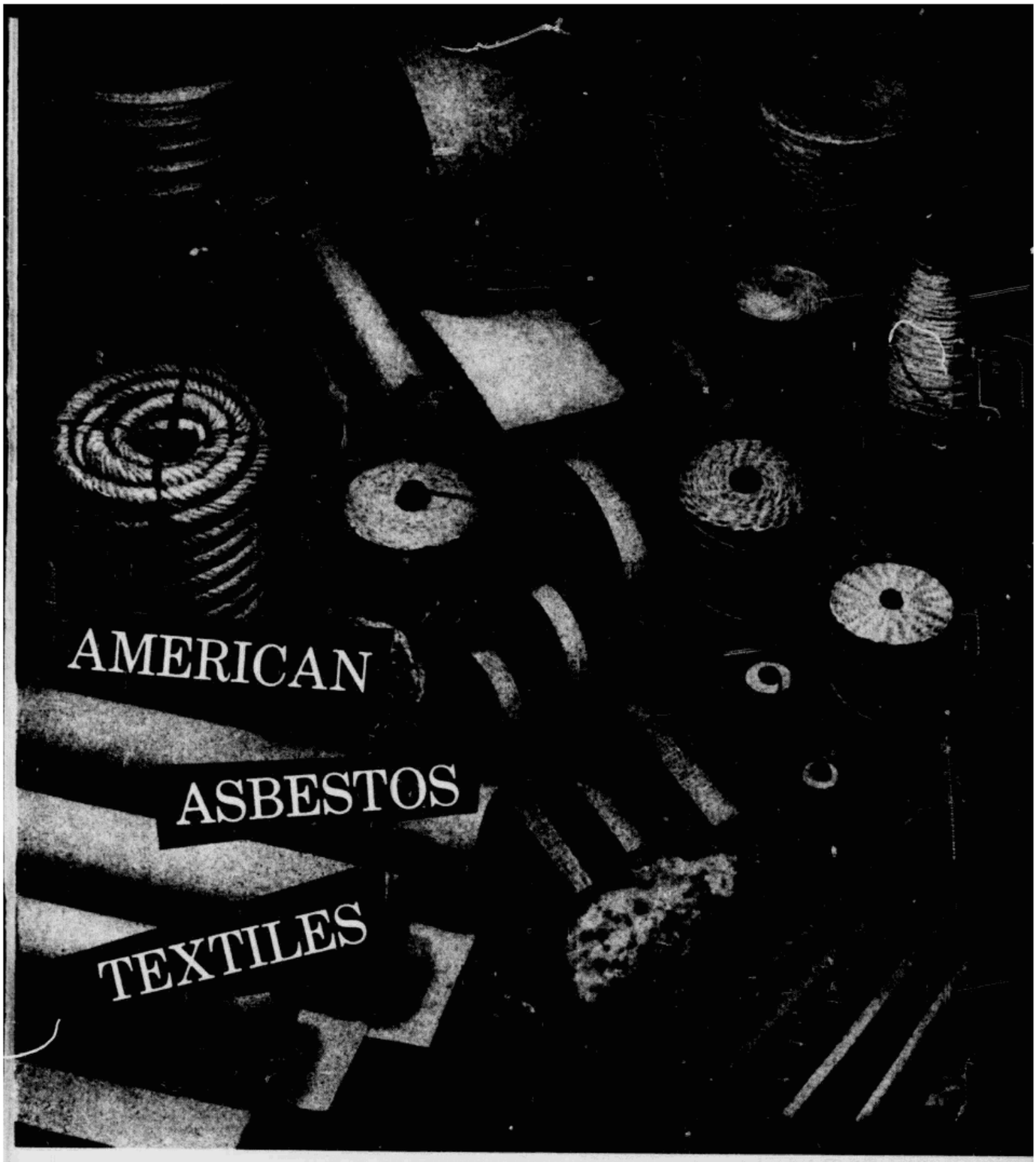
Asbestos Filter Fiber: The market for Arizona filter fiber is increasing steadily and the Arizona mills are all increasing production in an attempt to keep up with demand. It appears as though exploratory and blocking operations will also have to be extended in the light of projected future requirements.

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

CANADA produced 46,921,934 square feet (21,310 tons) of *vinyl-asbestos floor tile* during the First Quarter of 1968 compared to 50,721,311 square feet (23,639 tons) during the same period in 1967. (Dominion Bureau of Statistics, Ottawa)

AUSTRALIA—According to the Commonwealth Bureau of Census and Statistics, Canberra, 9,814,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the *Fourth Quarter of 1967*. The total for the *Year 1967* was 33,284,000 square yards.

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AMERICAN ASBESTOS TEXTILE CORPORATION

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

GAF CORPORATION is the new company name of the former *General Aniline & Film Corporation.* This name change was approved by the shareholders of GAF at the company's annual meeting on April 23, 1968.

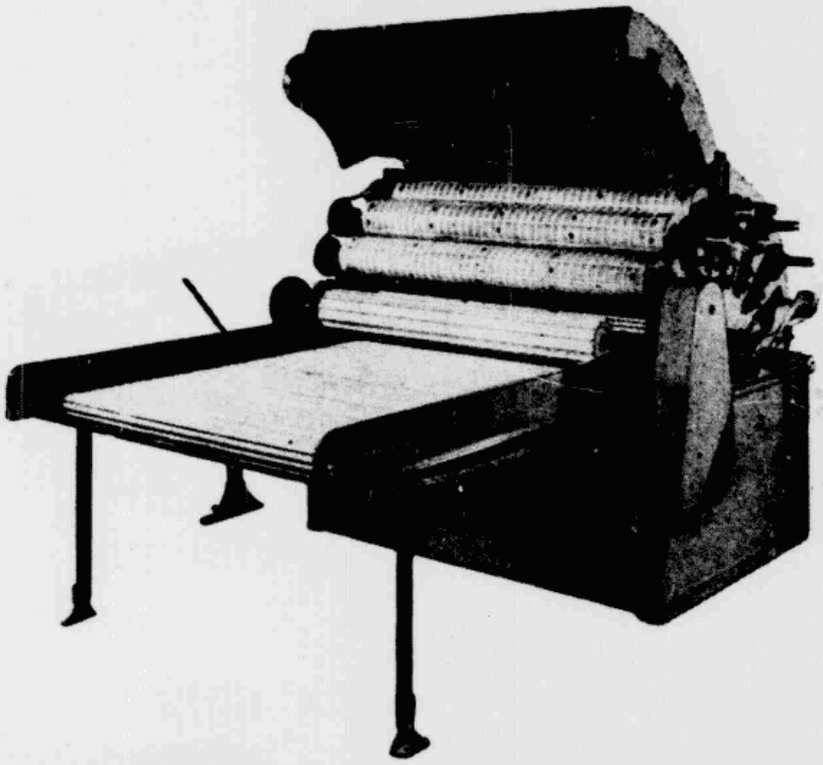
DRYCOR FELT COMPANY and AMERICAN FELT COMPANY, which operated as subsidiaries since their merger with *GAF Corporation* as part of the former The Ruberoid Co. in May of last year, have been merged into GAF and form the nucleus of the new Industrial Products Division which was established May 24, 1968.

NATIONAL GYPSUM COMPANY and *Binswanger Glass Company* have announced that an agreement has been approved by the Boards of Directors of the respective firms for the acquisition of Binswanger Glass by National Gypsum. The acquisition is subject to contract ratification, IRS tax ruling and final approval by Binswanger's shareholders. Binswanger Glass Company manufacturers and markets a wide variety of glass products to wholesale and retail outlets. National Gypsum Company is a highly-diversified building materials manufacturer marketing in excess of 300 products through four divisions.

NATIONAL SAFETY COUNCIL has presented 27 awards, including its highest commendation, the Award of Honor, to *National Gypsum Company's Building Products Division* in recognition of outstanding safety performance during 1967. National Gypsum's low frequency record of 2.6 lost time accidents per million manhours worked is considered by safety experts as an exceptional record in comparison to the national average frequency of 12.8 as compiled by the United States Department of Labor.

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Asbestos Magazine, 1968, July 1968
ACL Doc 12615 · Page 39 of 60
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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures from U.S. Bureau of the Census) Short Tons

Unmanufactured Asbestos:	MARCH 1968	APRIL 1968
Amosite, Crude, South Africa	1,112	2,570
Crocidolite (Blue), Crude, South Africa	575	845
Chrysotile, Crude, Canada	4	..
Finland	..	165
Chrysotile, Spinning Fibers, Canada	1,219	1,688
Finland	..	110
Chrysotile, Other, Canada	58,471	55,937
Italy	..	2
South Africa	..	40
Asbestos, Other, Canada	1,407	2,265
Bolivia	3	..
Finland	33	..
Mozambique	10	..
South Africa	80	..
	62,914	63,622

March 1968 valued at—$6,414,164
April 1968 valued at—$6,164,016

Manufactured Asbestos Goods:

			MARCH 1968
Asbestos Yarn, Slivers, etc.	Lb	391,501	$157,146
A-C Pipes, Tubes & Fittings	Lb	7,090,264	275,862
Asbestos-Cement Articles, Other	Lb	1,474,197	190,915
Asbestos Articles, Other		..	74,704
			$698,627

			APRIL 1968
Asbestos Yarn, Slivers, etc.	Lb	81,077	$ 70,855
A-C Pipes, Tubes & Fittings	Lb	5,988,689	247,627
Asbestos-Cement Articles, Other	Lb	1,309,401	190,047
Asbestos Articles, Other		..	47,156
			$555,685

Swaziland exported over R1,990,000 worth of goods to Britain in February 1968, including R100,000 for asbestos.

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Asbestos Fibres leads you
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ized field, highly selective quality control from
superior resources, and a combination of
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Exports From U.S.A.

(Figures from U.S. Bureau of the Census)

Unmanufactured Asbestos:		MARCH 1968	
Crude & Spinning Fibers	s. tons	14	$ 7,400
Non-Spinning Fibers	s. tons	1,274	153,119
Waste & Refuse	s. tons	1,072	101,057
		2,360	$ 261,576
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,817,045	$ 161,391
Other A-C Articles	Lb	357,995	62,711
Gaskets & Packing	Lb	435,832	524,684
Textiles & Yarns	Lb	381,257	116,282
Mfrs. Other than Friction Materials			341,640
Clutch Facings & Linings for auto use	No	240,348	174,503
Clutch Facings & Linings, Other	No	24,939	13,953
Brake Linings for automotive use	Lb	351,775	227,254
Brake Linings, Other	Lb	141,421	141,228
			$1,763,646

Ontario Department of Mines has issued its *Annual Report For the Year 1965"* which covers statistics of the mineral industry and mining operations in Ontario, Canada. This report contains a brief chapter on asbestos and includes a report on the asbestos mining activities of Canadian Johns-Manville Company Limited and Hedman Mines Limited.

1967 Directory of Mining Establishments has been issued by the Quebec Bureau of Statistics as Publication No. 0-2M. Included is a list of the locations of the 9 asbestos mines in Quebec.

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requires highly experienced Technical Director with minimum 10 years of experience in manufacturing asbestos-cement pipe and sheets. Please write enclosing resume to: Box 78ACC, c/o ASBESTOS, P. O. Box 471, Willow Grove, Pennsylvania 19090 U.S.A.

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Exports From Canada

(Published by Dominion Bureau of Statistics) **MARCH 1968**

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	12	1,280	19,148	39,230
United Kingdom	..	140	4,317	1,407
South America	..	13	1,816	285
Central America & Mexico	.	95	1,664	398
Europe	1	251	10,253	6,422
Japan	12	5	614	190
Other Countries	..	..	3,877	641
	25	1,784	41,689	48,573

Total Unmanufactured Asbestos—92,071 Valued at—$11,575,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 19,000
Asbestos-Cement Building Materials	152,000
Asbestos Basic Products, Other	112,000
	$283,000

Unmanufactured Asbestos: **APRIL 1968**

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	8	1,407	13,641	38,848
United Kingdom	..	915	5,025	3,887
South America	..	4	1,682	554
Central America & Mexico	..	55	1,495	666
Europe	..	1,159	21,113	11,479
Japan	7	178	2,843	2,352
Other Countries	..	..	5,134	468
	15	3,718	50,993	58,254

Total Unmanufactured Asbestos—112,980 Valued at—$14,981,000

Manufactured Asbestos Goods:

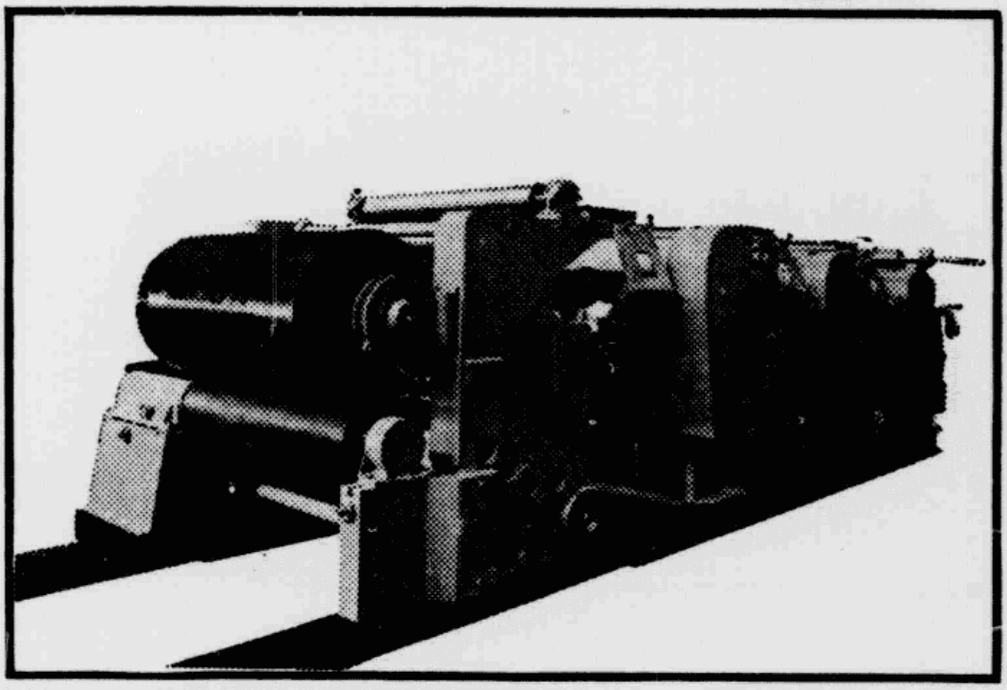
Asbestos Brake Linings & Facings	$ 7,000
Asbestos-Cement Building Materials	43,000
Asbestos Basic Products, Other	87,000
	$137,000

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ASP/HAC/19

asbestos cement *plants*





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PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

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INDUSTRY NEWS

HAPPY BIRTHDAY

Harry A. Jensen, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, July 17.
John F. D. Rohrbach, Chairman of the Board, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.
George J. Sampson, Eastern Regional Sales Manager, Floor Products Division, GAF Corporation, New York City, July 18.
Wallace R. Tyrie, General Manager, Melamite Division, Johns-manville Corporation, New York City, July 19.
C. Brown Whitley, President, Scandura, Inc., Charlotte, North Carolina, July 20.
Joseph A. Colagreco, Sales Manager, Asbestos Corporation of America, Garwood, New Jersey, July 21.
Albert G. Kovacs, Assistant Manager of Industrial Relations, GAF Corporation, New York City, July 21.
Seymour Milstein, Member of the Board of Directors, GAF Corporation, New York City, July 21.
William S. Simpson, President & Chief Executive Officer, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 21.
Roscoe T. Tallman, President & Chairman of the Board, Tallman-McCluskey Fabrics Company, Kirkwood, Missouri, July 22.
Richard D. Deininger, Vice President-Operations, Nicolet Industries, Inc., Florham Park, New Jersey, July 24.
Dimitry Poutiatine, Vice President, Johns-Manville International Corporation, New York City, July 25.
Mrs. Nina Schwezoff, Vice Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, July 25.
George C. Anderson, Director of Marketing for Granules, Building & Industrial Products Division, GAF Corporation, New York City, July 29.
Clinton B. Burnett, President & Chief Executive Officer, Johns-Manville Corporation, New York City, July 29.
Jay T. Derrick, Director of Industrial Relations, Philip Carey Corporation, Cincinnati, Ohio, July 29.
Thomas A. Dent, Vice President-Commercial Development, GAF Corporation, New York City, July 30.
George R. R. Wahl, Assistant General Manager, Pipe Division, Johns-Manville Corporation, New York City, July 30.
C. B. Brown, Director, Bell Asbestos Mines Ltd., Thetford Mines, Canada, August 1.
Frederic H. Main, Director, Hedman Mines Limited, New York City, August 1.
Herbert H. Anderson, Vice President-Research and Engineering, Philip Carey Corporation, Cincinnati, Ohio, August 4.
H. Kenneth Passmore, Secretary-Treasurer & Director, Hedman Mines Limited, Timmins, Ontario, Canada, August 5.
G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.

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A. P. Keasbey, Sr., President & General Manager, Robert A. Keasbey Company, New York City, August 6.
H. A. Woody, Mine Superintendent, Clinton Mine, Cassiar Asbestos Corporation Limited, Yukon Territory, Canada, August 6.
R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.
Arthur C. Smith, Vice President for Research, Development and Engineering & Director, Johns-Manville Corporation, New York City, August 8.
J. M. Dunn, Executive Vice President, Standco Industries, Inc., Houston, Texas, August 9.
Melvin H. Baker, Honorary Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.
R. A. Dodge, Chairman & Managing Director, R. A. Dodge & Associates Pty. Limited, Sydney, Australia, August 12.
Leo J. Monahan, Product Promotion Manager-Building Products, GAF Corporation, New York City, August 13.

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

Asbestos in 1967 (annual Mineral Industry Survey published by the U.S. Bureau of Mines)—Reduced construction activity resulted in a decrease in asbestos production and output dropped 2% from the record high of 1966. California continued as the leading producing State but output was 6% below the previous year. Output in Arizona was 14% below 1966 and the three producers were Asbestos Manufacturing Company's Phillips Mine, Jaquays Mining Corporation's Chrysotile Mine and Metate Asbestos Corporation's Lucky Seven Mine. Powhatan Mining Company continued to produce Anthophyllite at its Burnsville Mine in Yancy County, North Carolina, but production declined 5% from the year before. Vermont was the only State in which an increase in production was recorded. Production at the Lowell Mine, near Hyde Park, was 6% greater than in 1966.

Imports of Amosite and Crocidolite from South Africa were less than in the previous year. Exports of asbestos manufactured products rose 8%.

Production (sales) in the United States reached 123,189 short tons, valued at $11,102,000. Exports and reexports (unmanufactured) amounted to 47,718 short tons, valued at $6,025,000. Exports and reexports of asbestos products were valued at $23,767,000. Imports for consumption (unmanufactured) reached 645,112 short tons, valued at $65,743,000. Apparent consumption was 720,583 short tons. Chrysotile asbestos accounted for 96% of the total consumed, Crocidolite 2% and Amosite 2%. U.S. mines supplied nearly 17% of total consumption.

Statistics were not available from some countries and, therefore, a world total production figure could not be calculated.

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PERSONNEL NEWS

CAREY-CANADIAN MINES LIMITED

GORDON C. SCOWCROFT—Vice Chairman of the Board (is also a Director and the President of The Philip Carey Company Limited), DR. ROBERT J. MERRILL—Director, President and General Manager.

PHILIP CAREY CORPORATION

ROBERT G. LILLIBRIDGE—Director of Research and Engineering Planning, A. J. MATLIN—Director of Engineering, WILLIAM B. McALISTER—Manager of Careytemp Industrial Insulation Engineering and the General Design Group, GILBERT D. LORTZ—Architectural Representative.

JOHNS-MANVILLE CORPORATION

A. B. MARCHANT—Vice President for Industrial Relations, WILLIAM L. VanDERBEEK—Vice President for Production, JOHN B. JOBE—Vice President for Industrial Divisions, LEO J. BARTOLANZO—Treasurer, JAMES M. SHACKELFORD—retired as Treasurer, ANDREW J. WALLNER—Director of Traffic, ARTHUR J. KROLL—retired as Director of Traffic, DIMITRY POUTIATINE—Vice President of J-M International, J. R. M. HUTCHESON—Operations Manager for Asbestos Fibre Division, JOSEPH E. KINDREGAN—Operations Manager for the Building and Flooring Materials Divisions.

RAYBESTOS-MANHATTAN, INC.

RICHARD P. STOUT—Director of Research and Product Development for the U.S. Asbestos Grey-Rock Division, HARRY CHRISTIANSON—Vice President (is also General Manager of the Raybestos Division), GEORGE F. DUCKER—Vice President (is also General Manager of the General Asbestos & Rubber Division), DR. EUGENE P. STEFL—Vice President (is also General Manager of the U.S. Asbestos Grey-Rock Division).

" Tropag "

Hamburg —:— Ballindamm 6

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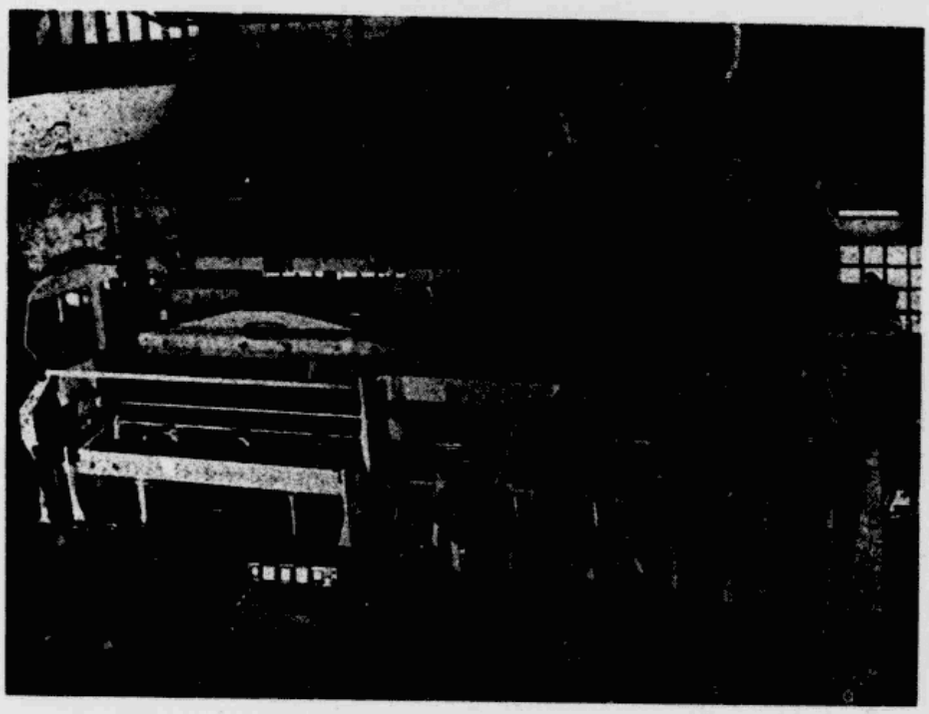
ASBESTOS-ORES-MINERALS

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NOTES FROM 1967 ANNUAL REPORTS

BBA GROUP LIMITED

Net profit after tax for BBA Group Limited was £1,543,601, an increase of 2.8% above the 1966 figure of £1,501,026. After deducting minority interests, the net profit attributable to BBA was £1,342,458. The value of Group external sales reached £21,230,030, 9.5% above the 1966 figure of £19,394,134. Direct exports from companies in the United Kingdom accounted for 18% of the Group's sales. Direct exports, together with sales by overseas companies, accounted for 56% of total Group sales.

The principal products manufactured by the Group are brake and clutch linings, asbestos-based textiles, jointings and packings, textile beltings and webbings for transmission and conveying and glass fiber products for insulation.

The reorganization of the BBA Group of Companies became effective on January 2, 1967.

Scandura Limited—Good progress has been made with the transfer of the asbestos yarn manufacturing plant to West Auckland, County Durham, England, and further expansion will be necessary to handle weaving. The company expects to increase the volume of the sale of conveyor belting in Export markets and its Research and Development staff is devoting its energy toward developing products to meet a wider range of applications.

Cresswell's Asbestos Company Limited is still undergoing reorganization and when completed, the company should be in position to make a reasonable contribution to the profits of the Group.

Scandura, Inc.—In order to meet the high demand in the United States for Scandura conveyor belting, buildings have been enlarged and additional machinery has been installed at the factory in Charlotte, North Carolina.

Frenos y Embragures S.A.—Steps are being taken to widen the range of products manufactured in Spain and Frenos is now producing disc brake pads for use on Spanish-made vehicles.

AMBEX, the Association of British Mining Equipment Exporters, has selected the markets in Latin America and Romania as its main "targets" during 1968.

A Market Research Mission will leave the United Kingdom to investigate the mining industries of Argentina, Brazil, Bolivia, Colombia, Chile, Jamaica, Mexico and Peru. The Mission hopes to strengthen interest in British design and equipment.

In Romania, AMBEX will be participating in the British Industrial Exhibition sponsored by the Eastern European Trade Council, which will be held October 17-27, 1968, in Bucharest.

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ASBESTOS STOCK QUOTATIONS

Close—June 28, 1968

Abex	36⅜	Glen-Alden	15⅞
Advocate	*$3.10	G-Alden (pfd 3.15)	121½
Asarco	90	G-Alden (pfd 3)	110½
Armstrong Cork	73⅞	G-Alden (pfd 2.25)	55½
Arm. Cork (pfd 3.75)	64½	Grace	36-⅝
Asbestos Corp.	*12⅛	Gulf & Western	47⅞
Bendix	39½	G&W (pfd 1.75)	146¾
Bendix (pfd 3)	66¾	G&W (pfd 3.50)	182
Certain-teed	26¾	G&W (pfd 3.87)	80
Certain-teed (pfd .90)	26⅜	G&W (pfd 5.75)	75
Fiberboard	49¼	Johns-Manville	64⅜
Flintkote	26¼	National Gypsum	55⅛
F-kote (pfd-A 4.50)	84	Porter (pfd 5.50)	81⅞
F-kote (pfd 2.25)	39	Raybestos	56½
F-kote (4-pfd 4)	63	Unarco	12⅛
GAF Corp.	25	Union Carbide	41⅞
GAF (pfd 1.20)	33	Uniroyal	52¾
Garlock	21½	Uniroyal (pfd 8)	125
		United Asbestos	*$8.45

*Canadian currency

Cytechno Ltd. holds Asbestos Prospecting Permits covering an area of five square miles in Troodos Mountain in the central part of Cyprus. This property is adjacent to the asbestos properties of Cyprus Asbestos Mines Limited and Chrome Mines (presently owned by Hellenic Mining Company Limited).

Chrysotile asbestos fibers appear in cross fiber veins and range in lengths up to one-half of an inch. Fibers of one inch or longer have also been observed. The average fiber content in the rock is roughly estimated to be about one per cent and extended rich zones are estimated to contain two to three per cent fiber content.

In 1963 a team of specialists from Polservice, a Polish firm, tested a portion of this area and reported that a total of 3,000,000 tons of fiber were available for open-cast mining. In 1964 a geologist from the United Nations' Special Fund Project for Cyprus investigated this same area and reported it to be of commercial value.

Cytechno conducted a preliminary feasibility study and estimated that £50,000 would be needed to finance a project to establish actual content, quality and grade of the fiber. Prospecting will include samples from surface surveying and drilling and test processing in a specialized laboratory. The company expects to commence working on this project by the early part of next year.

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Complete Consulting Engineering
Services for the Asbestos Industry



ILLUSTRATED: New Plant of Johns-Manville Mining & Trading Ltd., Reeves Township, Ont.

1550 de Maisonneuve Blvd. West, Montreal, Canada.

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ASBESTOS PRICES

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

(As of July 1, 1968)

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)	400.00	to	500.00
Group No. 5 (plastic & filtering)	250.00	to	400.00
Group No. 7 (refuse & shorts)	58.00	to	90.00

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

(As of April 1, 1968) Canadian Currency

Crude No. 1	$ ..		$1,410.00
Crude No. 2	..		760.00
Group No. 3 (spinning fiber)	367.00	to	600.00
Group No. 4 (shingle fiber)	201.00	to	341.00
Group No. 5 (paper fiber)	143.00	to	169.00
Group No. 6 (waste, stucco or plaster)	..	to	104.00
Group No. 7 (refuse or shorts)	45.00	to	87.00

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 April 1, 1968) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 319.00	to	$ 342.00
Group No. 4 (shingle fiber)	186.00	to	296.00
Group No. 5 (paper fiber)	132.00	to	156.00
Group No. 6 (waste, stucco or plaster)	..		96.00
Group No. 7 (shorts & floats)	44.50	to	80.00
Group No. 8 (shorts)	..		26.50

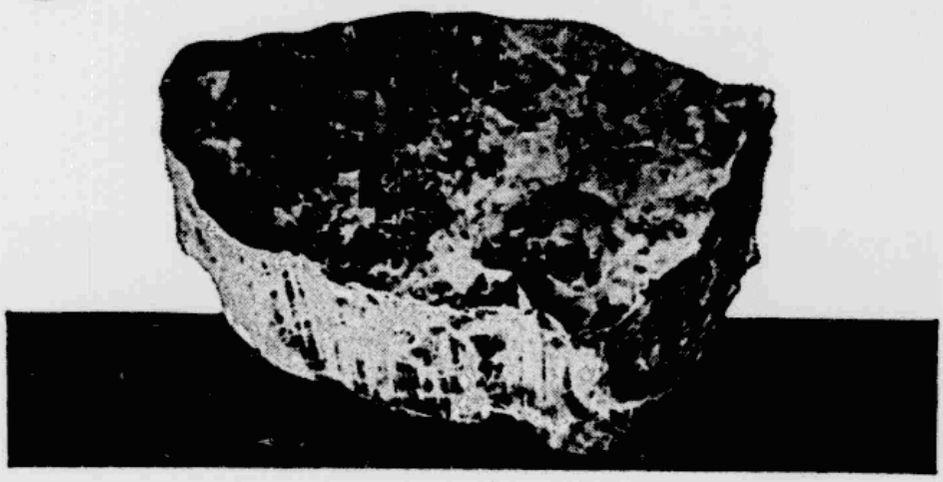
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BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

A MEMBER OF THE BBA GROUP CLECKHEATON · YORKSHIRE · ENGLAND



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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 May 14 through June 11, 1968.

3,382,541—Pipe Apparatus, R. W. Campbell (assigned to Johns-Manville Corporation, New York City), May 14, 1968.

3,382,650. Gas Filters, R. Peteri (assigned to Compagnie de Saint-Gobain, Neuilly-sur-Seine, France), May 14, 1968.

3,383,230—Phosphoric Acid Bonded Asbestos Fiber Sheets and Method of Manufacture, W. C. Streib and C. H. Shuih (assigned to Johns-Manville Corporation, New York City), May 14, 1968.

3,387,980—Heat Resistant Inorganic Bodies, J. T. Trainor and E. R. Kaufman (assigned to Raybestos-Manhattan, Inc., Bridgeport, Connecticut), June 11, 1968.

JAMES united steel limited

HALL MACHINERY DIVISION

124 Des Grandes Fourches South

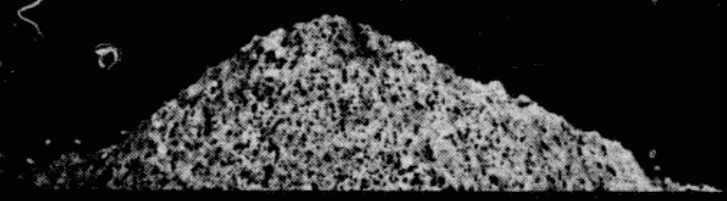
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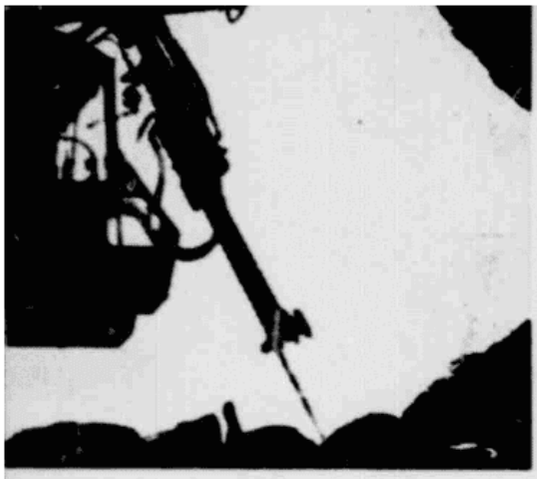
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Grit-free Carey-Canadian 7RF-9 is specified in great quantities by resin compounders, joint cement manufacturers and others who have improved their products with these floats.

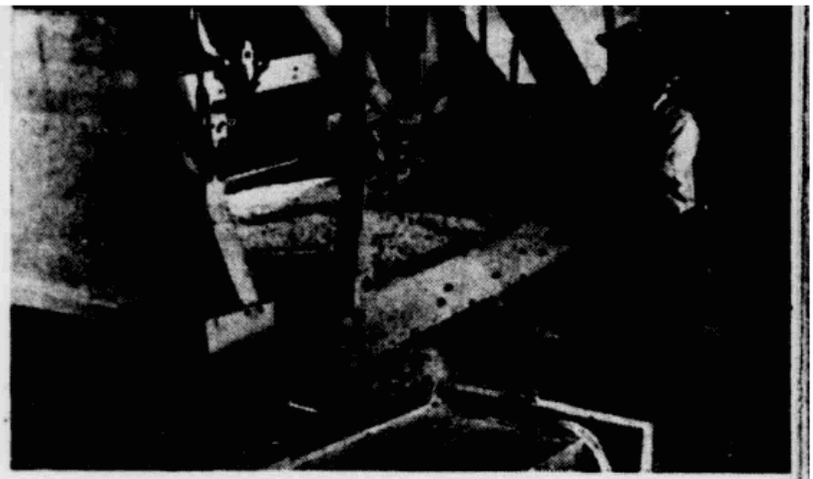
Get samples and data from the Warehouses below or from Carey-Canadian Mines, Ltd., P.O. Box 15070, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Co. Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada.

Warehouse stock at:

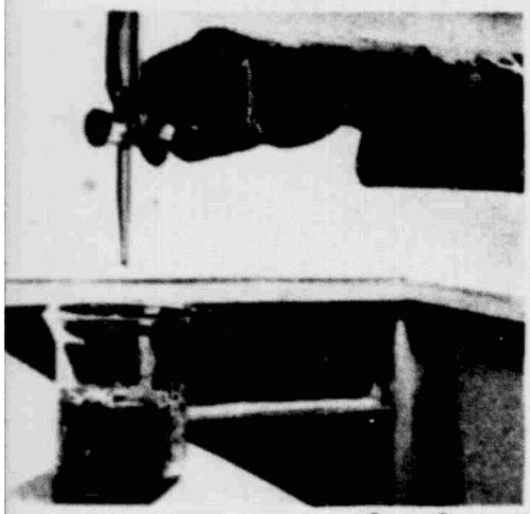
Baltimore ..... A. B. Kohl Sales Co.	Los Angeles ..... E. S. Browning Co.
Birmingham ..... Wittichen Chem. Co.	Memphis ..... Thompson-Hayward Chem. Co.
Brooklyn ..... Empire Ace Insul. Mfg. Co.	Milwaukee ..... Sprinkmann & Sons
Brooklyn ..... Smith Chem. & Color Co.	Minneapolis ..... Thompson-Hayward Chem. Co.
Buffalo ..... Commercial Chemicals, Inc.	Mobile ..... Wittichen Chem. Co.
Chicago ..... Chicago Firebrick Co.	Montgomery, Ala. ..... Wittichen Chem. Co.
Cleveland ..... Donald McKay Smith, Inc.	New Orleans ..... Thompson-Hayward Chem. Co.
Dallas ..... Thompson-Hayward Chem. Co.	Oklahoma City .... Thompson-Hayward Chem. Co.
Davenport, Iowa... Thompson-Hayward Chem. Co.	Omaha ..... Thompson-Hayward Chem. Co.
Denver ..... Plateau Supply Co.	Philadelphia ..... George A. Rowley & Co., Inc.
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Huntsville, Ala. ..... Wittichen Chem. Co.	Trenton, N. J. ..... H. M. Royal, Inc.
Indianapolis ..... Thompson-Hayward Chem. Co.	Tulsa ..... Thompson-Hayward Chem. Co.
Kans. City, Mo. ... Thompson-Hayward Chem. Co.	Wichita ..... Thompson-Hayward Chem. Co.
Little Rock ..... Thompson-Hayward Chem. Co.	Winchester, Mass. ..... W. D. Egleston Co., Inc.



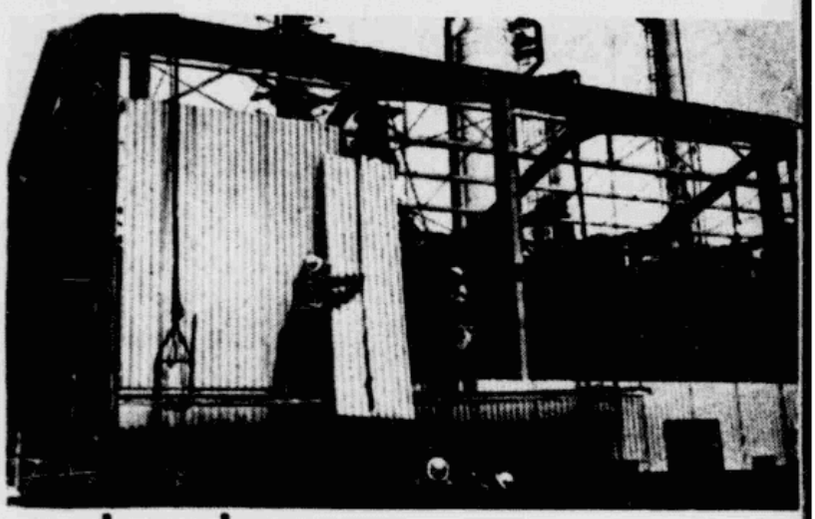
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