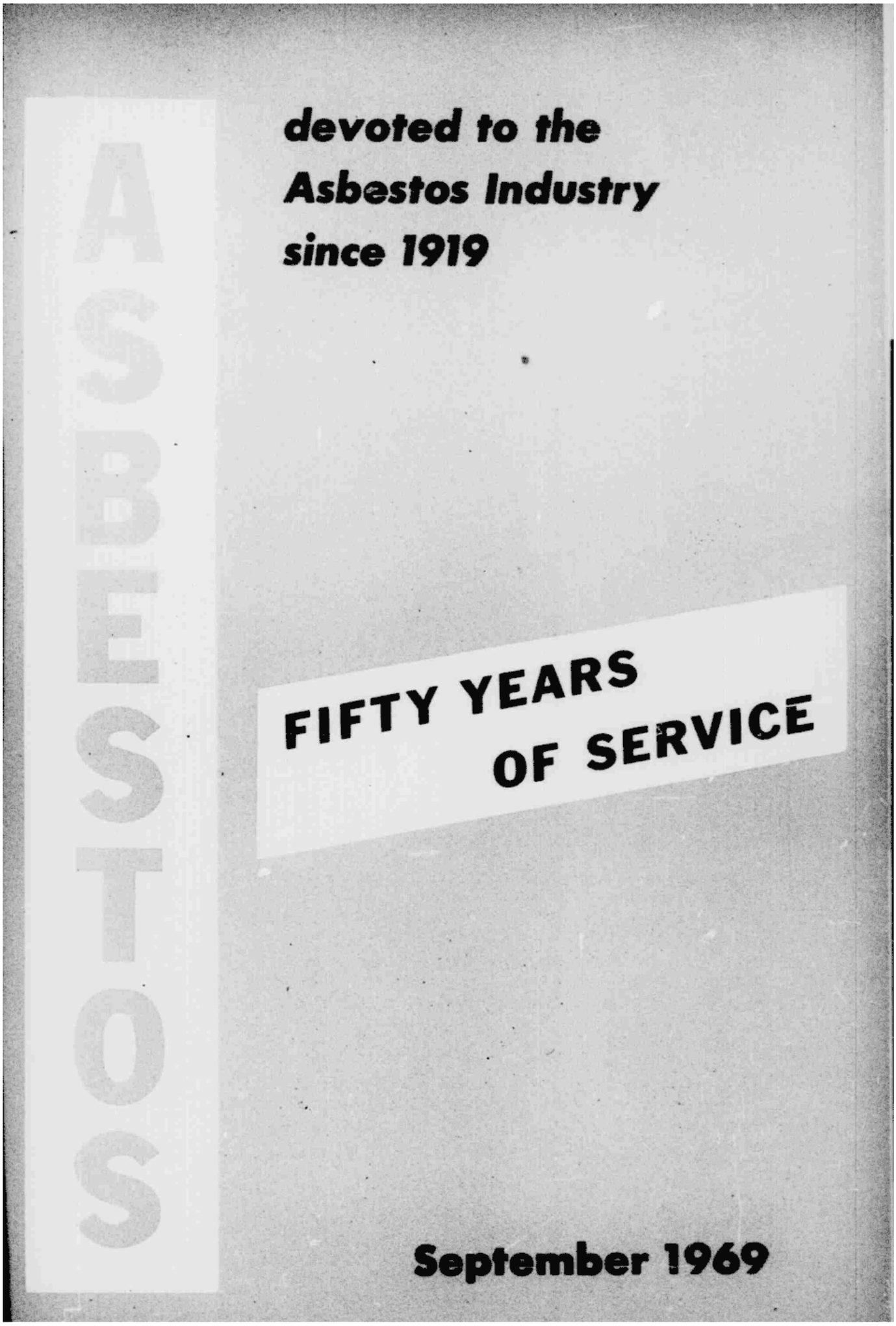


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Reports from a leading U.S. shipbuilder indicate that R/M Style 25 Thermal Insulating Tape (asbestos cloth sheath, glass sliver insulating medium) offers these outstanding advantages:

- Faster installation than sectional molded covering, particularly around curves where cutting, mitering, and cementing are required.
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- More durable and resistant to hard usage conditions than standard sectional insulating materials.

Used successfully for the past two years, the R/M tape currently is being applied aboard three destroyers and a 45,600-ton container ship. Service includes water and steam lines involving temperatures to 499°F.

For complete information on R/M Style 25 Thermal Insulating Tape conforming to MIL-I-15349 or Coast Guard specifications, contact us.

Raybestos R/M Manhattan

Asbestos Textile Division, 205 Middle St., Bridgeport, Conn. 06603
Raybestos-Manhattan, Inc.

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ASBESTOS

VOLUME 51 SEPTEMBER 1969 NUMBER 3

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CAREY-CANADIAN MINES USES ONE TRACTOR SHOVEL TO MINE TWO PITS

For years, asbestos mine operators have successfully pioneered some of the mining industry's most imaginative and advanced processing techniques. On the other hand, their excavating methods, for the most part, have continued to follow conventional lines.

Practically all asbestos producers strip and load ore by the use of swing shovels. This was the standard mode of operation until the advent of the rubber-tired, rock-loading tractor shovel. Now asbestos producers are participating in the growing trend toward the use of mobile, versatile tractor shovels as prime ore excavators. Result: One rubber-tired tractor shovel now does the work of two swing shovels and a smaller dozer while cutting time required for the job by 28.5 percent. It does all this even though it must shuttle two miles back and forth between two pits.

A pioneer in the use of rubber-tired excavators is Carey-Canadian Mines, Limited, East Broughton, Quebec. They operate two pits on a three-shift, six-day week in the Thetford Mines area about midway between Montreal and Quebec City. Their entire 4500 ton per day production of asbestos ore, a blend from the two pits, is excavated and loaded into 37-ton and 50-ton rear-dump hauling units by the 635 hp., 138,000 lb. tractor shovel with a 12 cubic yard rock ore bucket.

Average ore weight is 2.08 tons per cubic yard and it is excavated from the lightly shot mine face by the tractor shovel without assistance. The asbestos rock is loaded into a fleet of nine haulers with five or six units operating and the others on standby. Equipped with aluminum dump bodies, the smaller trucks have a 37-ton rated operating capacity for ore hauling (34-ton capacity for overburden). Waste stripping continues to be performed at night by a pair of electric swing shovels—one a 6 cubic yard model and the other a 4½ cubic yard machine. These are the ore-excavating units

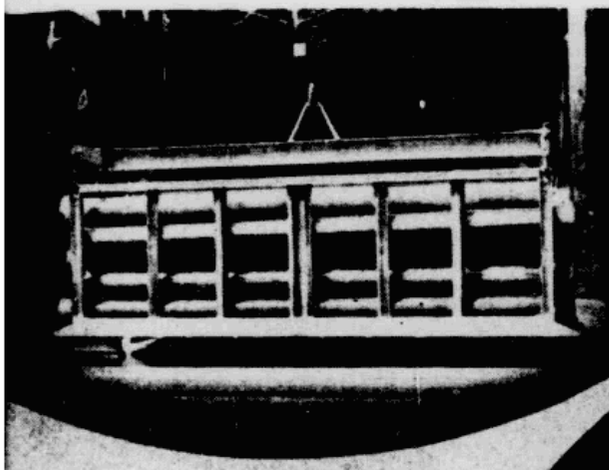
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UTOMATIC PLANTS TO MAKE SOCKETED PIPES

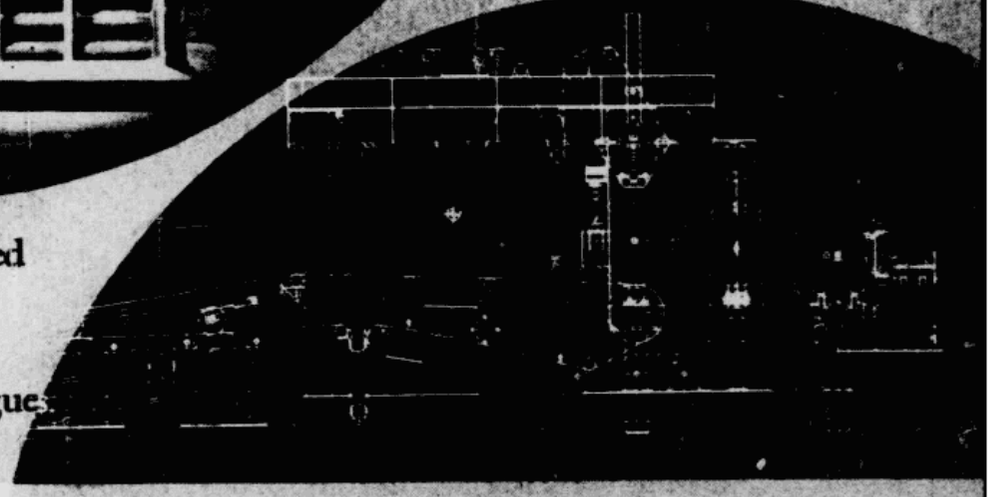


AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

ASBESTOS CEMENT ENGINEERING CO.

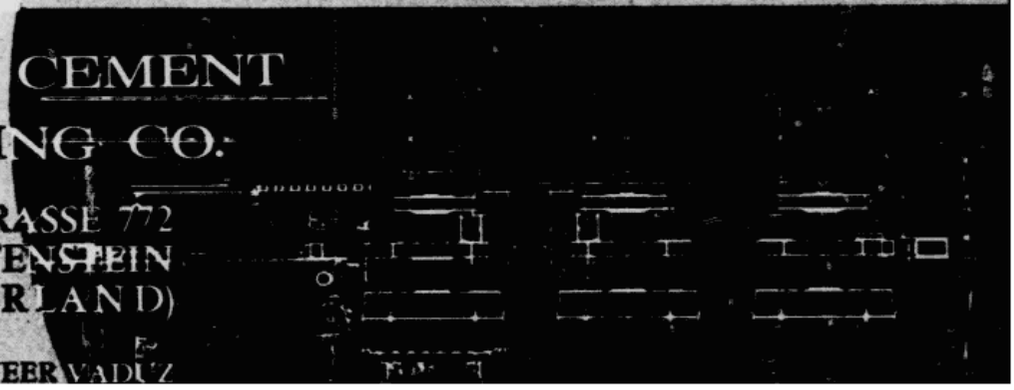


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The asbestos ore lies at an angle of 30 to 35 degrees from horizontal, and is being bench mined with work in the larger pit currently progressing on Number 5 level. Plans call for development to level Number 13 with benches averaging 45 ft. high. Mining is being done on level Number 3 in the smaller pit two miles away. Three other ore bodies are being held in reserve. Overburden is largely blue clay and barren rock.

To uncover ore, barren rock is blasted utilizing 4″ diameter holes 48′ to 54′ long on 10′ by 10′, 10′ by 12′ and 12′ by 12′ centers. Explosive is 3″ by 16″ Cilgel, Hi-Cap and Amex II. The ore is shot with Belite "A" in an asbestos shell to eliminate ore contamination. Holes are 4″ diameter, 45′ to 49′ long on 12′ by 12′ to 18′ by 18′ centers. Necessity for secondary blasting is negligible, according to mine management.

A most significant fact about blasting in relation to utilization of the tractor shovel is that no special measures are required, attributable in part to the generally soft nature of asbestos ore. In fact, the material is merely loosened in bank. The 12 cubic yard "V" nose rock bucket, equipped with teeth, depends on the tractor shovel's crowd, breakout and lift for standard heaped loads in the 2.08 tons per cubic yard ore. Rated operating capacity of the tractor shovel is 36,000 lbs.

Before the advent of the highly mobile tractor shovel, two diesel swing shovels of 2½ and 4 yd. capacity working alternately were required to meet normal processing plant demand for asbestos ore. A shovel stationed in each of the two pits was eliminated when the tractor shovel's 10 mph travel speed was utilized to shuttle it the two miles between loading sites. Also, actual production working time was reduced to seven hours, providing more than enough extra time for the tractor to maintain pit floor and loading sites, and receive standard preventive maintenance on a normal eight hour shift basis.

The loader has a torque converter, eight-speed power

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which mount 37.5 × 33 — 36 PR (L-5) wide-base nylon rock tires. An articulated frame permits a 70 degree angle of steer, a substantial advantage in close quarters.

A straight-frame tractor dozer previously used for ore shovel cleanup is now assigned full time to out-of-pit haul-road maintenance and overburden shovel support.

The economies achieved by this application of the most modern equipment available are obviously of considerable magnitude both in manpower and most efficient utilization of equipment.

(Clark Equipment Company is the supplier of the tractor shovel mentioned above.)

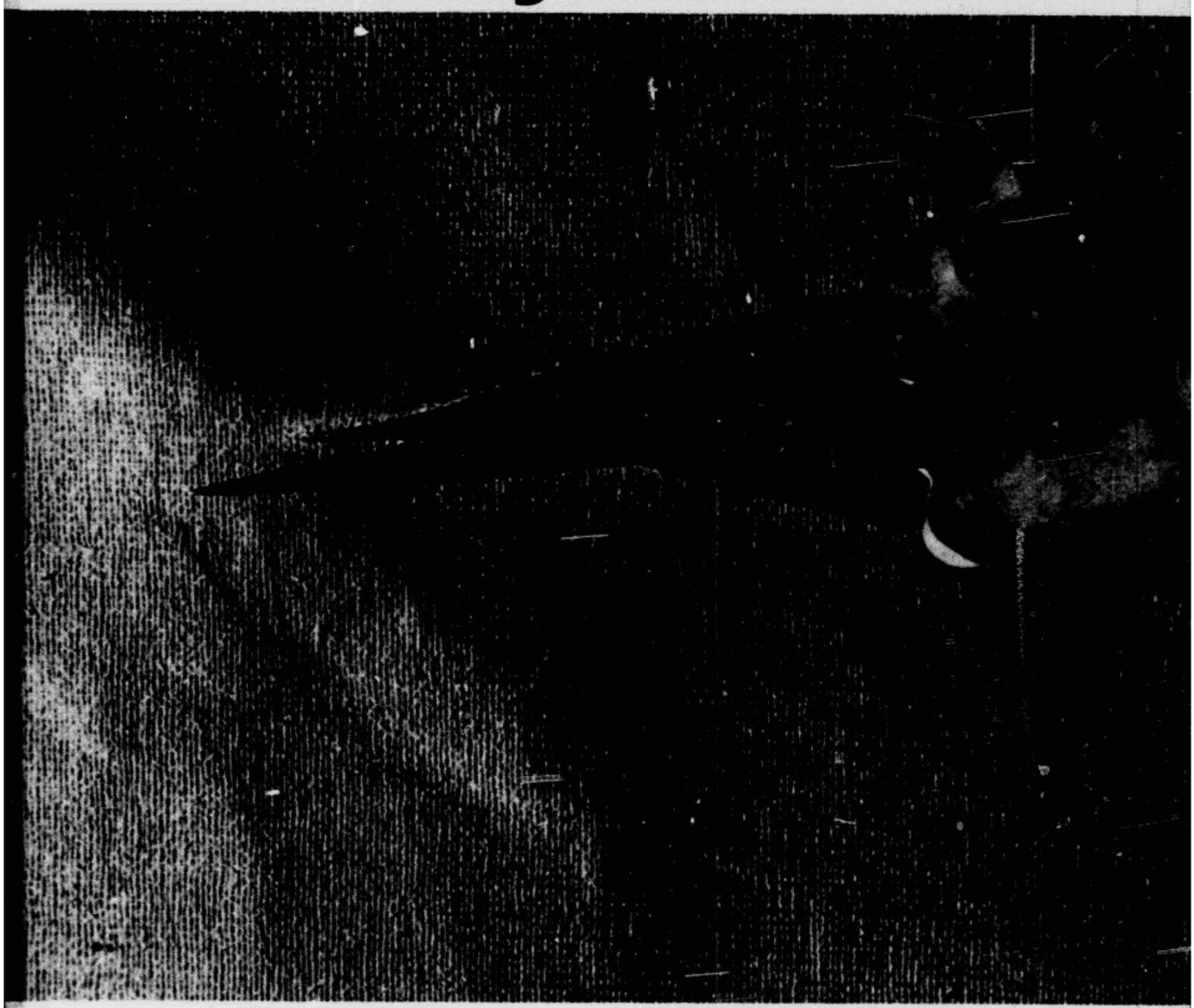
ASTM/NEW COMMITTEE—The American Society for Testing and Materials has authorized the formation of *Committee F-7 on Aerospace Industry Documentation of Materials*. This Committee has been formed to promote knowledge of aerospace and allied industry materials and techniques and to make recommendations for the development of needed standards to technical committees of ASTM and other organizations, as appropriate. One of the first tasks of the Advisory Committee for Committee F-7 will be a detailed review of the scope of the Committee and the definition of the term "documentation."

ASTM MEETINGS IN OCTOBER—Committee D-14 on Adhesives, ASTM Headquarters and Sheraton Hotel, Philadelphia, Pennsylvania, October 8-10; Committee G-3 on Deterioration of Nonmetallic Materials, ASTM Headquarters, Philadelphia, October 9-10; 1969 Materials Engineering Exposition and Congress (ASTM will sponsor five symposia), Civic Center, Philadelphia, October 13-16; Committee D-13 on Textile Materials, Belmont Plaza, New York City, October 13-17; and Committee E-5 on Fire Tests of Materials and Construction, ASTM Headquarters, Phila-

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Asbestos and Apollo 11

As might be expected, asbestos in various forms played a quiet but important role in the successful mission of Apollo 11, as it had in other programs leading to the landing of men on the Moon. Companies in the asbestos business also supplied other products which contributed to the success of the mission. While complete data on all those who participated and the materials used are not yet available, the following is based on information in our hands at this writing.

Raybestos-Manhattan supplied asbestos-metallic cloth in a number of forms which were used as heat shields in a variety of locations on and around the engines of the Saturn booster vehicle which lifted the spacecraft from Earth (See ASBESTOS, November 1968). At the other end of the line, the interior (including the furniture) of the Mobile Quarantine Facility, which the astronauts entered after landing and in which they were isolated during their transfer from the landing area to NASA's manned spacecraft center in Houston, was spray painted with an R/M compound called REFSET to provide an additional margin of safety against propagation of fire within the MQF. The compound is available in a range of colors and the resulting finish resembles leatherette.

Uniroyal supplied an asbestos fabric that was used as part of the equipment stowage system in "Eagle," the Lunar Excursion Module. This material resists temperatures up to 1800° F and was the only asbestos material meeting the nonflammability requirements of NASA. Another Uniroyal product, TRILOCK, which is a patented, three-dimensional spacer material made of polyethylene and polypropylene yarns, was incorporated inside the boots used in walking on the Moon to distribute air for cooling the astronauts feet, thus providing protection against the extremes of temperature encountered on the Moon's surface. After splashdown in the Pacific the astronauts donned waterproof, airtight suits before being lifted to the rescue helicopter. A special Neoprene adhesive, also supplied by Uniroyal, was used to bond metal to rubber parts in these suits to insure against leakage at the joints.

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used to protect the servo-actuator arms on the F-1 engines of the Saturn V booster from the high temperature exhaust of the rocket motors to which the arms are exposed immediately after ignition and during the first few seconds after lift-off. These arms are hydraulically actuated and serve to vector the four outboard engines, controlling the direction of their thrust and hence actually steering the vehicle. The same material was also used as a back-up insulation between the ablative heat shield and the Command Module structure, helping protect the structure and the cabin interior against the tremendous amounts of heat generated on the outer surface of the heat shield during re-entry. MIN-K, also a J-M product, served as insulation to protect the gimbal assembly of the high-gain, S-band antenna, to provide insulation, gasketing and support for the five windows of the Command Module and for insulating certain components of the fuel cells of the Service Module. It was also used in certain portions of the descent stage of the Lunar Module.

ASBESTOS would be pleased to learn of any other specific applications of asbestos-based products in the actual flight and landing stages of the Apollo program.

FIRE PREVENTION WEEK will be celebrated October 5-11, 1969. This annual event is internationally sponsored by the *National Fire Protection Association.*

PACKAGING/CONVERTING MACHINERY SHOW '69 is scheduled for October 27-30, 1969, in Cobo Hall, Detroit, Michigan. The Show will be conducted annually after 1971 and is produced by the *Packaging Machinery Manufacturers Institute.*

IDCNA CONVENTION—The 14th Annual Convention of the *Insulation Distributor-Contractors National Association, Inc.* will take place November 1-5, 1969, at Mt.

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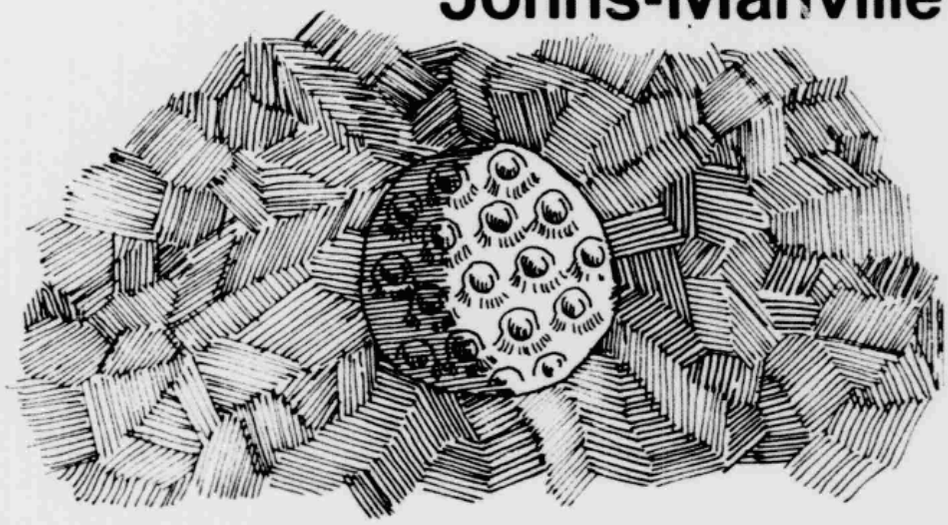
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Asbestos Textile Institute

25th Anniversary

The July 1969 issue of ASBESTOS contained a report of the General Meeting of the Asbestos Textile Institute held in June. The report closed with an announcement that the Institute would commemorate its 25th Anniversary at the next meeting in October. A short history of this organization may be of interest to our readers.

The Institute was formed on November 16, 1944, as a voluntary, non-profit unincorporated organization designed to render service to manufacturers, to the trade and to users of asbestos textiles. Membership was originally open to asbestos textile manufacturers in the United States. The following companies, representing a major portion of the asbestos textile production capacity in the U.S. were the charter members: Asbestos Textile Company, J. Franklin Burke & Company, Carolina Asbestos Company, Garlock Packing Company, Johns-Manville Corporation, Keasbey & Mattison Company, Philadelphia Asbestos Company, Raybestos-Manhattan, Inc., Southern Asbestos Company, and Union Asbestos & Rubber Company.

Among the various activities contemplated by the Institute were the establishment of uniformly high standards of quality, research to develop new uses and new markets for asbestos textiles, and the preparation and distribution of technical and general information of interest and value to engineers, designers, distributors, manufacturers and to the general public.

The first officers of the Institute were C. H. Carlough of Carolina Asbestos Company, President; George Marshall, Jr. of Raybestos-Manhattan, Inc., Vice President; William C. Scott of Keasbey & Mattison Company, Treasurer; and Harris D. McKinney, Manager and Secretary. The Board of Governors was composed of C. H. Carlough, Chairman; G. S. Fabel of Southern Asbestos Company; George Marshall, Jr., W. C. Scott, E. R. Teubner, Jr., of Philadelphia Asbestos Company; and F. J. Wakem of Johns-Manville Corporation.

Since its founding, Associate Membership in the Institute

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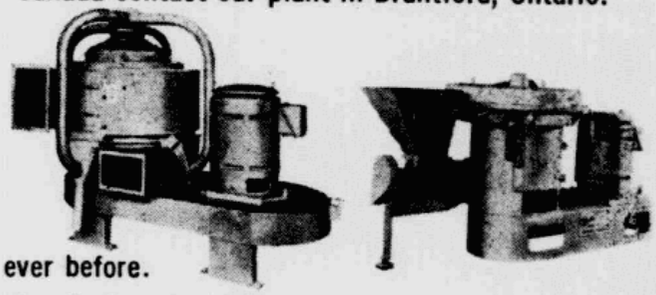
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The Hurricane Pulverizer-Classifier is a rugged air attrition mill with integral classifier. Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. Also excellent for recovering usable fibre from material normally sent to the tailings dump, and for classifying fibres collected in dust filters, etc. Simultaneously, this one machine pulverizes, provides sharp classification, extracts impurities, and air conveys material to next operation. Sizes to 150 HP.

When fibre cannot be separated from gritty impurities by conventional methods, add the Centri-Sonic Classifier. This high capacity centripetal classifier does the job with ease! Three sizes, up to 100 HP and 10 tons per hour. Ask for descriptive Bulletins G-4 and G-8.

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facturers of asbestos textiles. The present membership, numbering 15, includes 8 such organizations.

Over the years, the work of the Institute has been extended in scope and it now has committees specializing in air hygiene and manufacturing, sales promotion, environmental study, technical matters, and fiber testing.

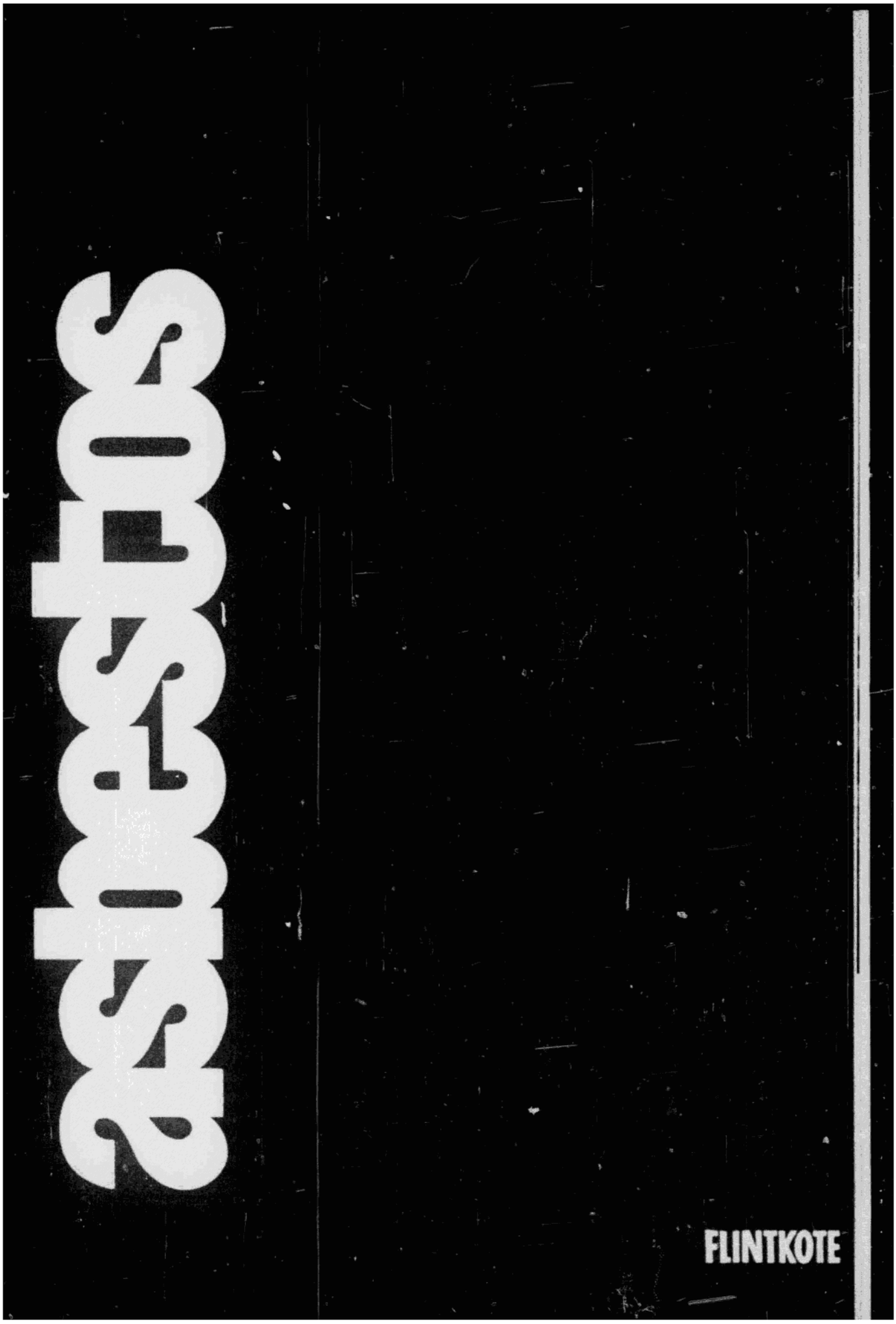
The Asbestos Textile Institute has proven to be a most valuable adjunct to the asbestos textile industry and is to be congratulated for its past accomplishments and its present constructive activities on behalf of the producers and users of asbestos textiles.

ARMSTRONG CORK COMPANY sold its subsidiary, ACandS, Inc., to North Lime Corporation, a new company recently formed by a group of ACandS management people. North Lime purchased from Armstrong all of its ACandS stock. Included in the transaction, which was effective August 1, was Armstrong Contracting Canada Limited, an ACandS affiliate in Canada. North Lime was formed for the sole purpose of acquiring the capital stock of ACandS and does not plan to conduct other business in its own name.

ACandS was founded in 1958 as Armstrong Contracting and Supply Corporation. The name was recently changed to ACandS, Inc. As noted by James W. Liddell, President of ACandS, the contracting subsidiary's sales volume has increased substantially since its founding and the success the organization has achieved in insulation contracting indicates it should continue to broaden the scope of its business through the establishment of an independent company.

According to James H. Binns, President of Armstrong Cork, the sale of ACandS is the latest step in the company's long-range plan to consolidate its resources behind marketing areas best suited to its corporate capabilities and growth objectives. Within the past two years, Armstrong has acquired Thomasville Furniture Industries, Inc. and E & B Carpet Mills, Inc., has divested itself of its packaging materials and consumer packaged-goods businesses, and has invested considerable capital in programs to further strengthen its businesses in resilient flooring, ceiling systems, and build-

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asbestos
FLINTKOTE

RAYBESTOS-MANHATTAN, INC. has completed the acquisition of *Milford Rivet & Machine Company*. The transaction was approved by shareholders of both companies and received a favorable tax ruling from the Internal Revenue Service. The newly-acquired firm will continue to operate as a separate company under its President, Robert M. Gordon. Milford Rivet has its main office and plant in Milford, Connecticut, and operates manufacturing plants in Elyria, Ohio; Hatboro, Pennsylvania; Aurora, Illinois; and Santa Fe Springs, California.

Milford manufactures and sells tubular and split rivets and cold-headed specialties and produces automatic rivet-setting machines which are sold or leased to a variety of industries. R/M is a leader in the manufacture and distribution of friction materials, asbestos textiles, industrial rubber goods, abrasive and diamond wheels, plastic products and composites.

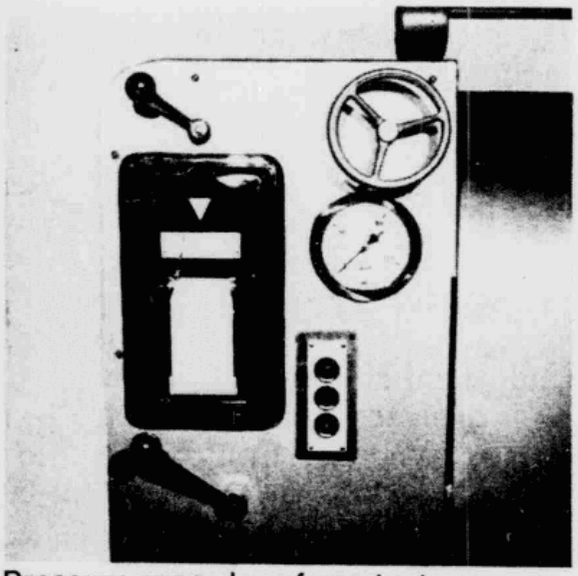
GAF CORPORATION reached an agreement to purchase *Uniroyal, Inc's.* Research Center in Wayne, New Jersey. This center, to be used by GAF as its central research facility, was constructed in 1957 and contains four main building complexes and several accessory buildings. Under the terms of the purchase agreement, GAF will occupy the research center in 1972 when Uniroyal will complete its move to the new administrative, research, training and computer center in Oxford, Connecticut.

Acquisition of the center will enable GAF to centralize its principal research activities in one location and more effectively apply the knowledge and skills of its research scientists and technicians to longer-range research on present and future product lines for all of its operating divisions. With the consolidation at the new center, GAF will close its present central research laboratory at Easton, Pennsylvania, but will continue to conduct research and development activities at its other laboratories.

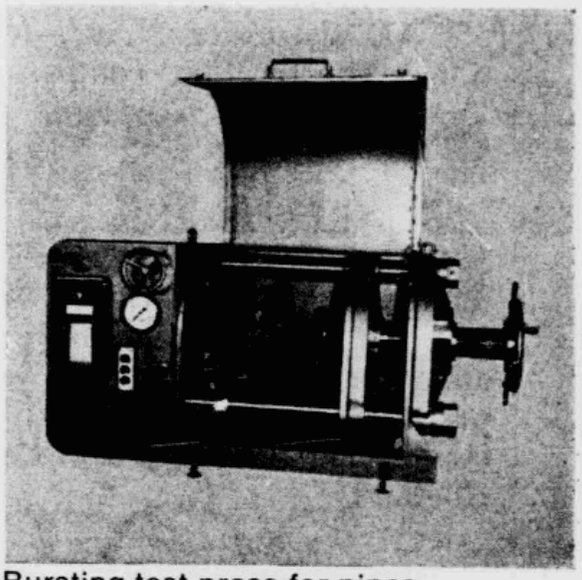
In view of the new agreement, the 100-acre tract which GAF purchased in 1966 in the Township of Parsippany-Troy Hills, New Jersey, as the potential site for its new research

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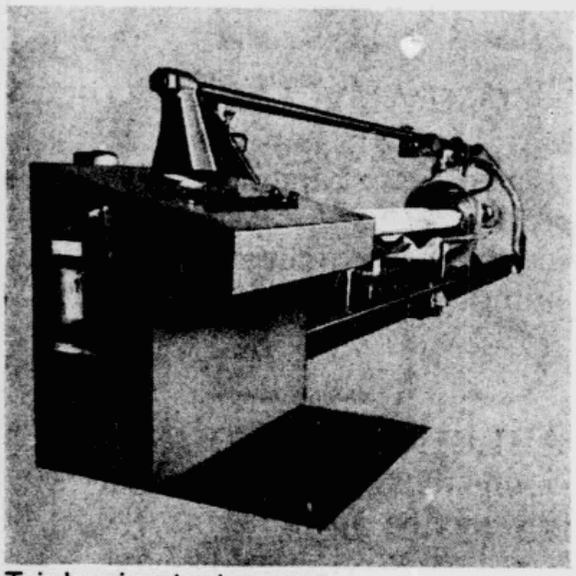
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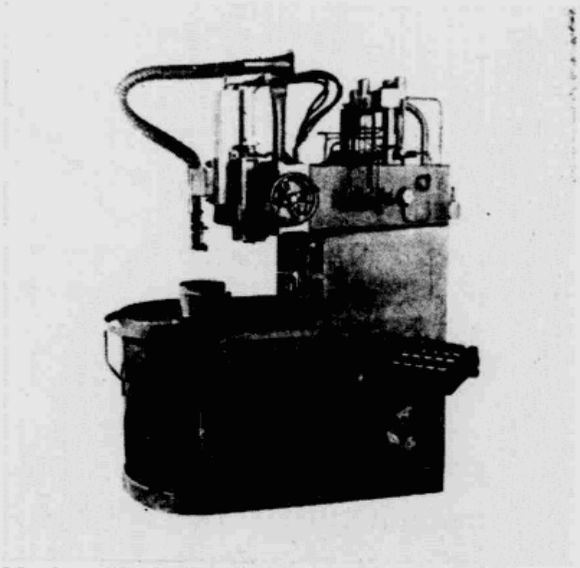
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NATIONAL GYPSUM COMPANY has secured, as an investment, a common stock ownership position of 550,000 shares of *H. H. Robertson Company,* an international construction company headquartered in Pittsburgh, Pennsylvania.

GARLOCK INC. has purchased a 35% interest in *Arai Seisakusho Company Limited,* a firm in Japan that manufactures oil seals and precision molded rubber products. Garlock manufactures engineered components for industry such as mechanical packings, oil seals, industrial rubber and plastic products and asbestos textiles and operates manufacturing facilities in the United States, Canada, Mexico, France and England.

THE CAPE ASBESTOS COMPANY LIMITED, subsidiary of Charter Consolidated Limited, has made an offer to acquire the whole of the issued share capital of *Trist Draper Limited*. Trist Draper is the holding company of a group of companies concerned with the manufacture and sale of "Top-Dog" brake and clutch linings and automatic transmission components.

CAPE UNIVERSAL BUILDING PRODUCTS LIMITED will modernize and consolidate its asbestos-cement manufacturing operations. The production facilities at the Chalford Works in Gloucestershire will be transferred to Cape Universal's other manufacturing plants, primarily to the Bowburn Plant in the North East Development Area.

CAPE ASBESTOS FIBRES LIMITED has relocated to Iver Lane, Cowley, Uxbridge, Middlesex, England. The new office is near the company's fiber research laboratory and in the future, both commercial and technical services will be available from the same address. Cape Asbestos Fibres' Head

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MARKET CONDITIONS

General Business.

While there are some definite signs of a slowdown in the real growth of the economy, latest figures indicate the rise in consumer prices is continuing at an excessive rate. The rise in July was attributable, in large part, to increases in food products, particularly in the case of meats. However, prices of basic industrial materials such as steel have also been increased to compensate for the profit squeeze being felt by producers. Although the stock market has shown some signs of strength recently, many analysts and investors are not convinced the long decline which started in May is as yet reversed and there is much uncertainty as to the future outlook for business in the face of continued monetary restraints designed to "cool" the inflationary economy.

Devaluation of the French franc, long anticipated, has not resulted in any serious disruption in international money markets up to now. There is still the threat that France's labor unions will force wage adjustments which could largely negate the desired effects of devaluation.

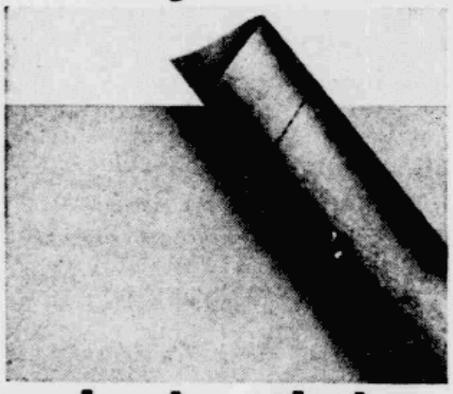
The Vietnam situation is still in a muddled state and no progress has been reported in the Paris peace talks. In the Middle East overt acts by both sides in the controversy are continuing and no complete solutions of the problems appear imminent.

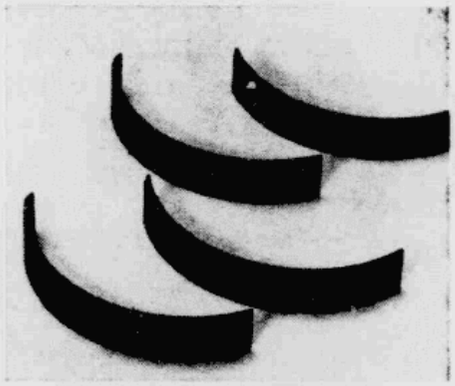
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LAKE ASBESTOS

Asbestos Magazine, 1969, September 1969
ACL Doc 12629 · Page 23 of 59
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asbestosclaims.law/library/12629/23

CERTAIN-TEED PRODUCTS CORPORATION's Asbestos and Plastics Division has formed a *New Orleans Sales District* to market its asbestos-cement and PVC pipe products in the area encompassing Arkansas, Louisiana, Mississippi and Western Tennessee. District headquarters will be at Suite 30, 3968 North Boulevard, Baton Rouge, Louisiana 70806. The former representative in Baton Rouge, John H. Selleck, has been appointed District Manager.

J-M EXPANDS PRODUCTION—New lines of asbestos-cement extrusion (ACE) products developed by Johns-Manville Corporation have gained widespread acceptance so rapidly that demand has surged throughout the United States. The company is, therefore, investing in full-scale production facilities at Manville, New Jersey, to convert ACE production from new product status to high volume manufacturing. The new facility is expected to be completed by the end of this year. The materials to be produced are primarily Corspan and Facespan, masonry architectural materials used as sidewall, facia and spandrel panels.

SMALL AND PARKES LIMITED, Manchester, England, signed an agreement with Czechoslovakian Authorities which is worth the equivalent of an immediate £250,000 direct export, with long-term prospects worth many times this amount. The Czechoslovakians will build a factory for the manufacture of Don formula disc brake pads, with an estimated production of close to a million units per year. The first Don formula disc brake pads to be produced at the new factory are designed especially for a new model of Skoda car —due to be announced this autumn. Don brake linings exported from the United Kingdom are already well known to Czechoslovakian automobile engineers as they are original equipment on Skoda cars, Tatra cars and trucks and Zetor tractors. This latest agreement confirms S&P as the largest foreign supplier of brake linings to the fast-growing Czecho-

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ASBESTOS CEMENT MACHINES

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All machines for asbestos cement plants also for special sheet profiles and pipes from stock preparation to testing of the finished goods.
Sheet machines with four cylinder moulds and adjacent fully automatic sheet production lines and pre-curing means.
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ASBESTOS/ASPHALT THIN OVERLAY—The use of asbestos/asphalt mixtures to repave streets increases the initial cost from 20-25% over that of ordinary asphalt. However, since resurfacing is accomplished with 50% less material, the cost factor is nullified. Asbestos produces a tougher surface, is more resilient and extends the usable life of a repaired street by 20-25%. Also, because a one-inch layer of the asbestos mix is needed instead of two inches or more of the regular asphalt mixture, costs of raising curbs are saved.

An asbestos-asphalt overlay that has proved highly successful for street repairs in St. Louis, Missouri, is being tried in an effort to salvage the 10,000-foot main runway at Lambert-St. Louis Municipal Airport. A similar application has already been completed at the Municipal Airport in Toledo, Ohio.

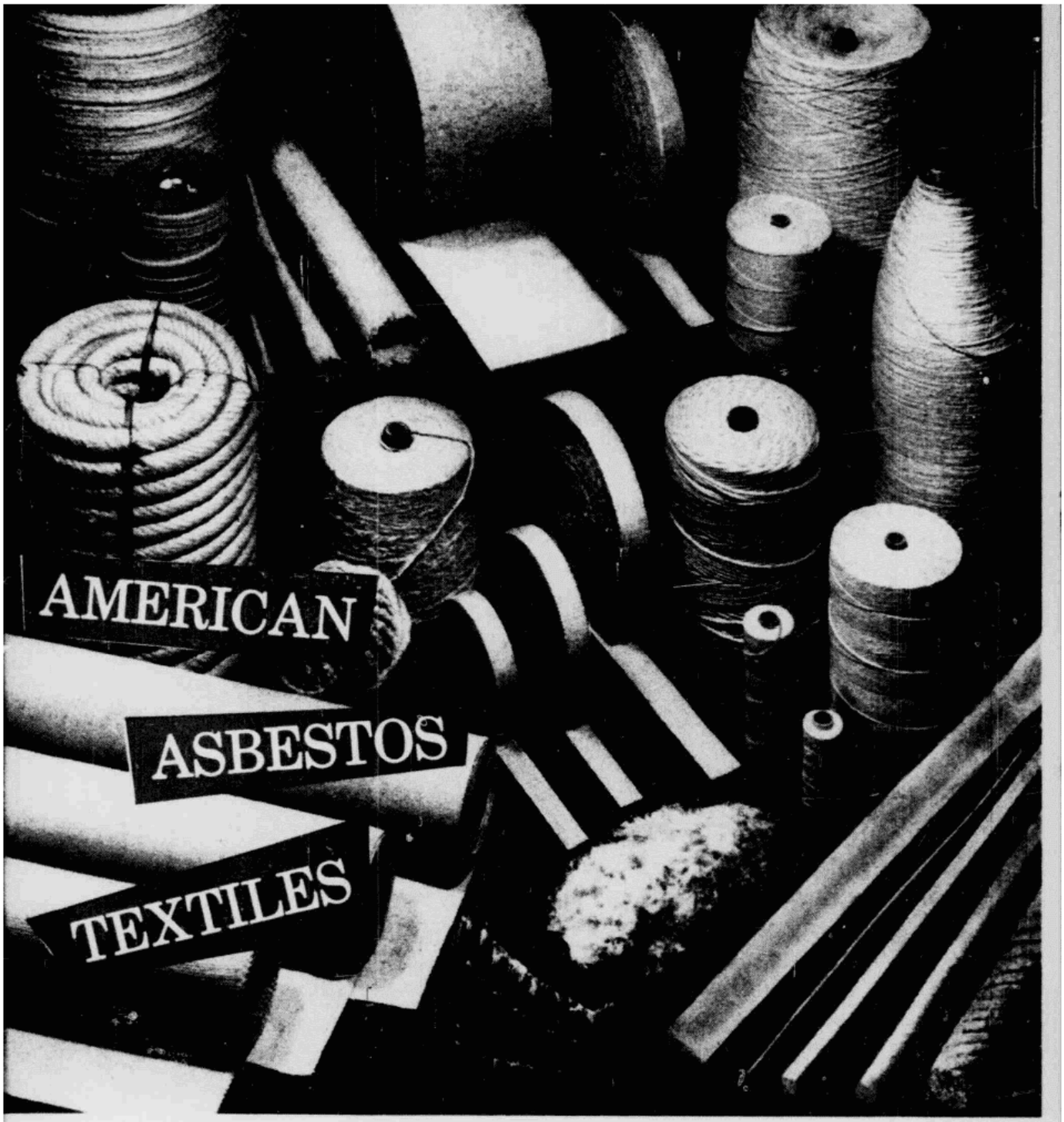
The critical 5,000 feet of the runway at St. Louis was surfaced with a four-inch layer of regular asphalt topped by a one-inch course of asbestos fiber mixture. A concrete overlay would have required an eight-inch slab costing up to $8 million and the runway would have been shut down for two or three months. If the asbestos mix does the job for as much as a year, it will have justified its cost. One problem encountered during mixing was that, as the asbestos was added to the asphalt, it had a tendency to fluff up, thus limiting the capacity of the mixer.

Johns-Manville Corporation assisted in both the St. Louis and the Toledo projects. For the past ten years, J-M has been foremost in the research, engineering and follow-up on the use of asbestos fiber in asphalt mixes used for thin overlays, curbing, bridge decks and many problem areas including the decking on a barge.

NATIONAL GYPSUM COMPANY's Board of Directors, on August 5, declared a regular quarterly dividend of $.26¼ per share on its common stock payable October 1 to holders of record September 10.

H. K. PORTER COMPANY, INC. has declared a quarterly dividend of 40¢ per share on its common stock, payable September 30 to stockholders of record September 10

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Building

From: McGraw-Hill Information Systems Company

JULY 1969—The Dodge Index of contracts for new construction declined for the second straight month. The July Index at 176 (1957-59=100) showed a seasonally-adjusted decline of 2% from the June rate of contracting and 16% below the all-time high of 210 set in May. The total of newly-contracted construction work during July came to $6,168,473,000, 4% higher than the amount for last July.

Nonresidential building contracts, at $2,369,805,000, slipped 2% below the year-ago level. July-to-July declines in industrial and commercial buildings were largely offset by gains in hospitals and other institutional construction. On a seasonally-adjusted basis, nonresidential building held about even with June, but was down sharply from earlier this year. July's index of 217 compares with the January 1969 peak of 257.

Residential contracts totaled $2,224,847,000. With mortgage sources drying up, every category of housing declined and the July total of contracts was 3% below the level of last July.

Nonbuilding construction contracts reached $1,573,821,000, 25% above last July. Expansion of electric generating capacity by utilities in several parts of the nation led the strong gain. The amount of highway contracts indicated that the period of catching up on last year's postponed Federal highway work is about ended. After the heavy surge of road contracting earlier this year, when most of the delayed Federal highway funds were released, volume has now returned to its normal level.

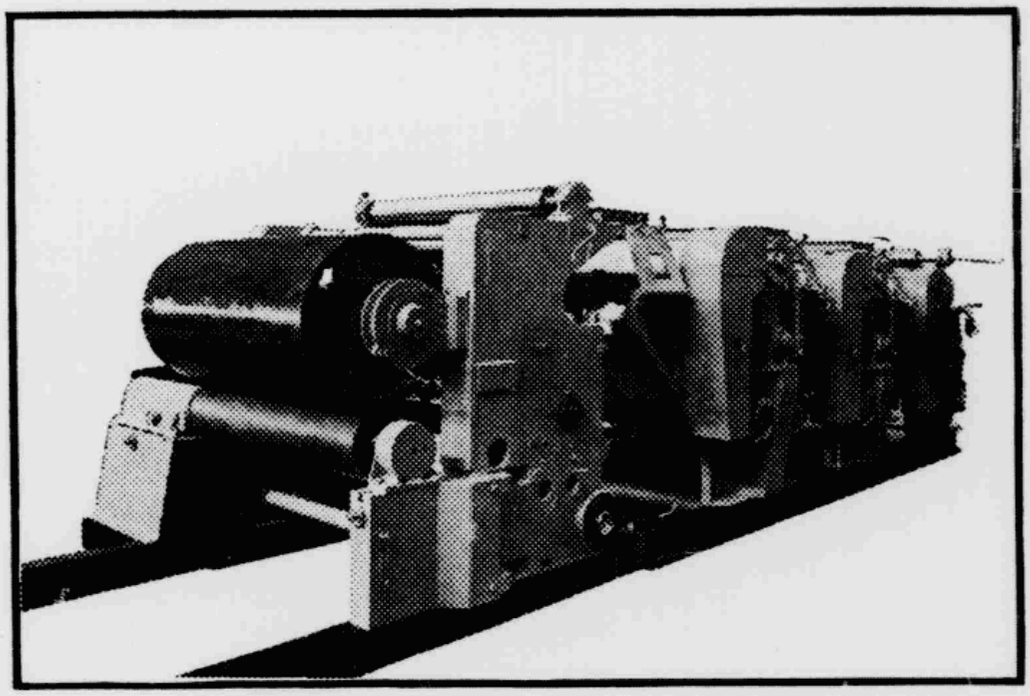
PERFORMANCE OF DEEP FOUNDATIONS is a new book, No. STP 444, available at $20.00 per copy from the *American Society for Testing and Materials*. It presents the most important state-of-the-art symposium covering experience and research on the problems of deep foundations. The 15 papers cover studies involving dynamic and static loading for deeply placed piles under many soil conditions and

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ASP/HAC/19

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CALIDRIA ASBESTOS IN CAR BODIES—The Fiberfab Division of Velocidad, Inc., Santa Clara, California, produces custom-body conversion kits containing special panels, fenders, hood and other components made of glass fiber. To make a component, the cavity of a female mold is sprayed with a polyester gel coat to a thickness of .025". After the gel coat sets, it is sprayed with the base structure of glass fiber and polyester resin to a nominal thickness of 3/16". The completed component is then removed from the mold.

The gel coat was originally formulated from a polyester resin, a filler and a viscosity control agent (thixotrope) of colloidal silica. Substitution of a resin-grade asbestos for the colloidal silica as the thixotrope in the gel coat has resulted in significant cost savings for the manufacturer. The asbestos costs about half as much as silica, has higher yields, gives better batch consistency using less thixotrope and is more readily wetted by the resin without fluffing up, making spraying quicker and easier.

The asbestos used is *Union Carbide Corporation's CALIDRIA Asbestos, Resin-Grade 244*. Material cost savings in the range of $10.00 per 800-pound batch are being realized, stability problems are eliminated and viscosity is maintained during lengthy storage periods.

GENUINE PITSEAL is an emergency gasketing material that will become semi-plastic with the natural heat generated by the metal surfaces between which it is used. It is for use where a flange or a joint is badly pitted, scored or distorted and when plant down-time is impracticable due to cost factors or loss of production. The material is composed of long-strand asbestos fibers which are interwoven with white alloy wire containing a special imported graphite. It will take pressures up to 350 psi and temperatures to 450°F and is available in sheet sizes 40" x 40" and 40" x 80" with 1/8", 3/16" and 1/16" thicknesses. Free samples of the gasketing material are available from the manufacturer, *Industrial Hermetic Materials, Inc.*, Miami, Florida.

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AMMANN Asbestos Mill



The *ONLY DISINTEGRATOR* treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestos Mines of the whole world.

The above illustration shows a large plant comprising several AMMANN disintegrators. This plant works in an asbestos mine in South Africa.

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Automobile Sales

JUNE 1969 motor vehicle factory sales from plants in the *United States* totaled 940,874 (passenger cars—777,115, trucks and buses—163,759). The total for June 1968 was 990,063. The total for the FIRST HALF OF 1969 was 5,452,195 compared with 5,788,237 for the same period in 1968.

Motor vehicle factory sales from plants in *Canada* totaled 128,044 for June 1969 compared to 118,104 in June 1968. The total for the first six months of 1969 was 703,386 against 582,897 for the same period in 1968.

TURNALL WEATHERALL—As a result of a nation-wide survey, *Turners Asbestos Cement Company Limited* has introduced a new product called Turnall Weatherall asbestos-cement slates. Blue-black in color, the slates are manufactured in 6.35 mm thickness and can be applied without tail rivets. The company recommends a minimum pitch of 25° for the 24" x 12" slates, although in certain applications a 22½° pitch may be used. Site tests of the slates have been carried out over a period of 18 months in varying weather conditions and the results have been satisfactory. Turners Asbestos is a Turner & Newall company located in Trafford Park, Manchester, England.

CANADIAN GOVERNMENT SPECIFICATIONS BOARD, on February 28, 1969, issued *Standard No. 51-GP-9 for "Thermal Insulation: Mineral Fiber, Sleeving, for Piping and Round Ducting."* This Standard applies to inorganic fibrous thermal insulation sleeving for use with surface temperatures below 400° F. It is essentially for but not restricted to land installations. Basic materials are fibers made from mineral substances such as rock, slag or glass processed from the molten state with or without binders and surface coverings

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It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P. Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

Asbestos Magazine, 1969, September 1969
ACL Doc 12629 · Page 34 of 59
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KLINGERPAC, a new soft asbestos sheeting for low to moderate pressures, has been introduced by *Richard Klinger Limited*, Sidcup, Kent, England, to supplement its range of compressed asbestos jointing materials. The new material consists of asbestos fiber bonded with a synthetic rubber binder and is available in three grades. A special manufacturing process insures that the asbestos fiber throughout the sheet is coated with the binder, thus minimizing the possibility of fibers becoming detached and contaminating the contained media. High compressibility together with relatively high recovery enables the gasket to form readily and compensate for imperfections in flange faces. It is produced in continuous 48" width rolls, with standard thicknesses of 1/16", 1/32" and 1/64". Each thickness is also available in a standard sheet size of 48" x 48". Other dimensions can be manufactured to required specifications. Klingerpac is the newest of the "beater process" materials— a type of gasket sheet widely utilized in the automotive industry.

(It is interesting to note that the first compressed asbestos sheet was produced in 1895 by Richard Klinger, Founder of the Klinger Group, thus paving the way for today's high-pressure steam engineering processes.)

THE U.S. BUREAU OF MINES has proposed stronger requirements for testing and certifying filter-type breathing apparatus used in mining and other industrial applications. The new rules include exacting tests for fitting respirator facepieces and requirements for lower resistance to breathing, making respirators more comfortable to wear. According to John F. O'Leary, Director of the Bureau, "Results of recent studies on the health and safety of workers in non-coal mines make it imperative that we bring our regulations up to date. We must incorporate provisions for technological advances in design and construction of filter-type respirators, provide a greater variety of equipment to meet new environmental conditions, and make our administrative procedures and requirements consistent with those followed in implementing other Bureau regulations."

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PRODUCTION - IMPORTS - EXPORTS

Canada produced 108,891,544 square feet (49,952 short tons) of vinyl-asbestos floor tile during the *First Half of 1969*. Shipments for the same period amounted to 96,539,038 square feet (45,203 tons). These figures were supplied by the Dominion Bureau of Statistics, Ottawa.

South Africa—According to the Department of Mines, Johannesburg, 67,634 short tons of asbestos were produced during the *1st Quarter 1969*: Amosite, 22,786; Chrysotile, 11,172; Cape Blue, 32,282; and Transvaal Blue, 1,394.

South Africa exported 49,814 short tons of asbestos fiber, valued at R5,575,134, during the *1st Quarter 1969*. The breakdown is as follows: Amosite, 18,294, R1,827,341; Chrysotile, 5,145, R380,395; Cape Blue, 25,382, R3,227,526; and Transvaal Blue, 993, R139,872. These figures were supplied by the Department of Mines, Johannesburg.

Cassiar Asbestos Corporation Limited reports that production from the *Cassiar Mine* is being maintained at a rate of 75,000 tons of fiber per year and production from the *Clinton Mine* has increased to the rate of 80,000 tons of fiber per year. Both mines are operating efficiently and sales are at the anticipated level for the six-month period from January through June 1969.

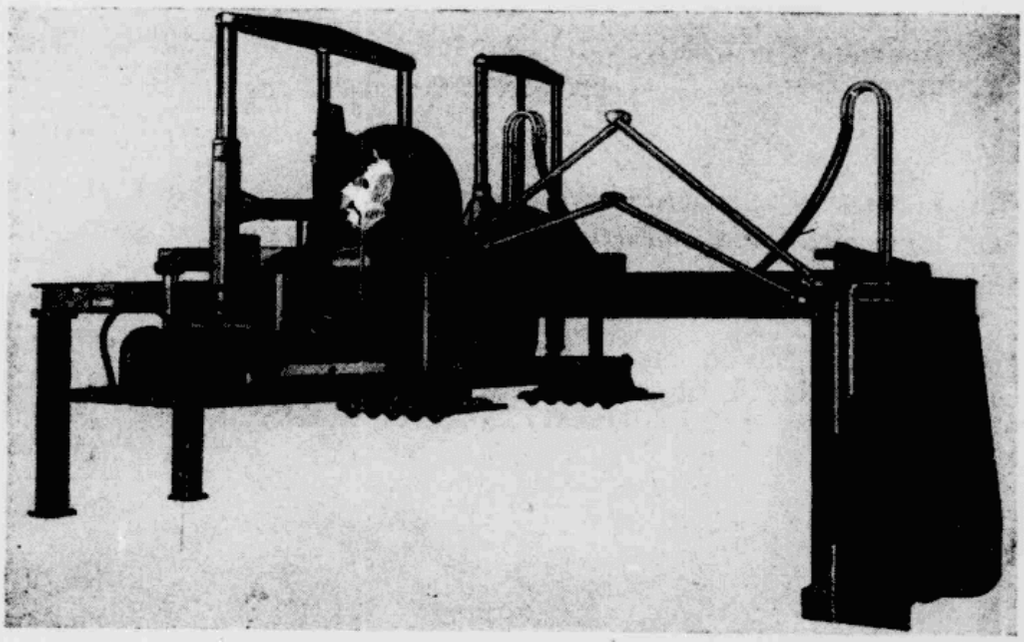
Cyprus Asbestos Mines Limited quarried 3,357,375 tons of rock during 1968 and its three mills produced 19,012 tons of asbestos fiber from the 1,344,410 tons of raw material treated. Of the total production, 10,986 tons constituted fiber of long grades and 8,026 tons were of the short grades. During the year, 19,830 tons of fiber were exported and 139 tons were used in the factory for the manufacture of molded goods and corrugated and flat sheets. No prospecting was undertaken by Cyprus Asbestos Mines as its known ore reserves are estimated to last for many years.

Freeport Sulphur Company's wholly-owned subsidiary, *Freemex, S.A.*, and a Mexican mining and chemical company, *Metalurgica Mexicana Penoles, S.A.*, have been carrying on an exploration program in southern Mexico through *Compania Minera Pegaso, S.A.*, a company in which Freemex has a 49% interest. As part of the program, "Pegaso" has completed 12 drill holes on an asbestos prospect and has encountered asbestos-bearing rock ranging in thickness from 93 to 385 feet. While further drilling and testing will be required to obtain an accurate measure of tonnage, quality and grade, current indications are that substantial tonnages of commercial material are

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Imports Into U.S.A.

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

Unmanufactured Asbestos:	MAY 1969 (Short Tons)	JUN 1969 (Short Tons)
Amosite, South Africa	1,643	1,267
United Kingdom	1	..
Crocidolite (Blue), South Africa	540	1,047
Chrysotile, Crude, Canada	525	..
Finland	275	237
Mozambique	25	..
South Africa	591	50
United Kingdom	..	10
Chrysotile, Spinning Fibers, Canada	810	1,388
Chrysotile, Other, Canada	48,449	54,047
Other Crudes & Fibers, Angola	..	53
Canada	737	1,351
Finland	50	1,024
Portugal	115	74
Mozambique	10	..
South Africa	500	120
	54,271	60,668

May imports of unmanufactured asbestos were valued at $5,664,898.
June imports of unmanufactured asbestos were valued at $6,632,221.

Manufactured Asbestos Goods:		MAY 1969	
Asbestos Yarn, Slivers, etc.	Lb	115,127	$ 91,702
A-C Pipes, Tubes & Fittings	Lb	3,532,915	166,576
Asbestos-Cement Articles, Other	Lb	2,561,211	281,717
Asbestos Articles, Other		..	90,217
			$630,212

		JUNE 1969	
Asbestos Yarn, Slivers, etc.	Lb	406,720	$242,490
A-C Pipes, Tubes & Fittings	Lb	12,626,302	542,573
Asbestos-Cement Articles, Other	Lb	1,548,359	204,154
Asbestos Articles, Other		..	84,838
			$1,074,055

The Thetford Mines Branch of *The Canadian Institute of Mining and Metallurgy* held its May 1969 meeting at the Asbestos Golf and Country Club, Asbestos, Quebec. The guest speaker at the meeting was J.-P. Drolet, Assistant Deputy Minister, Mineral Resources, Department of Energy, Mines and Resources, Ottawa. Mr. Drolet discussed "Elements of a Mineral Policy for Canada," which he stated would shortly be ready for release.

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Exports From U.S.A.

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

Unmanufactured Asbestos:		MAY 1969	
Crude & Spinning Fibers	s. tons	239	$ 51,674
Non-Spinning Fibers	s. tons	1,212	187,818
Waste & Refuse	s. tons	1,720	207,620
		3,171	$447,112
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,439,489	$126,019
Other Asbestos-Cement Articles	Lb	1,983,537	334,314
Gaskets & Packing	Lb	473,027	661,070
Textiles & Yarns	Lb	829,365	224,903
Mfrs. other than Friction Materials		..	510,831
Clutch Facings & Linings for auto. use	No	578,239	346,533
Clutch Facings & Linings, Other	No	155,813	51,536
Brake Linings for automotive use	Lb	660,891	632,079
Brake Linings, Other	Lb	271,437	239,352
			$3,076,637

Exports From Canada

(Published by Dominion Bureau of Statistics) **MAY 1969**

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	33	1,865	122
Western Europe	..	1,065	20,757	12,141
Middle East	..	..	1,424	..
Africa	..	..	200	30
Asia	2	289	6,273	4,029
Oceania	..	..	2,422	1,013
So. & Cen. America & Antilles	..	42	4,427	1,493
United States	..	1,506	15,840	37,967
	2	2,935	53,208	56,795

The total amount of unmanufactured asbestos exported in *May 1969* was 112,940 short tons, valued at $15,696,000.

Manufactured Asbestos Goods:

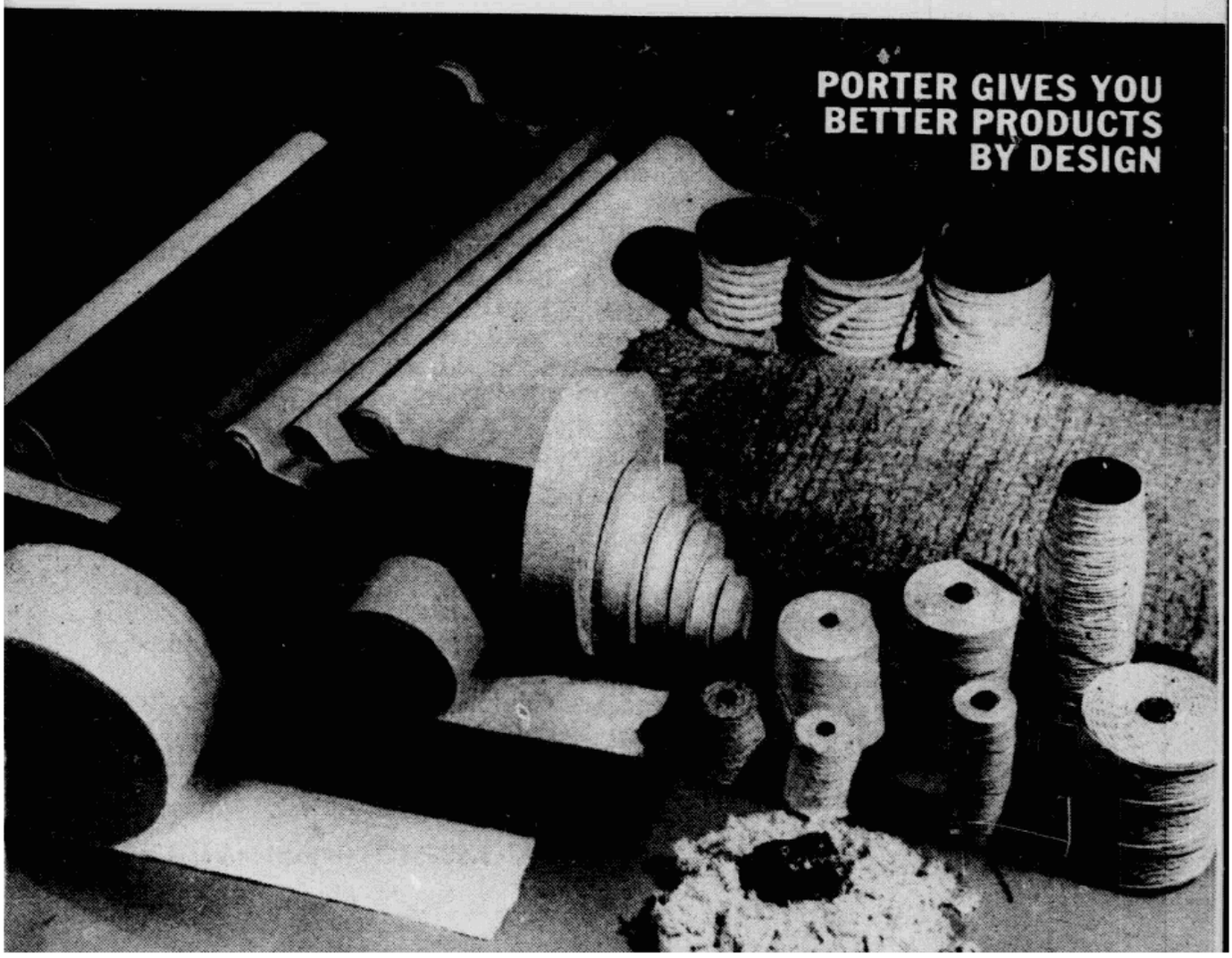
Asbestos Brake Linings & Facings	$ 111,000
Asbestos-Cement Building Materials	187,000
Asbestos Basic Products, Other	142,000

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Thermoid asbestos textiles: quality engineered

Thermoid starts with the best grade of fibers to make the finest asbestos textiles. The line includes cloth, carded fiber, roving, yarn, cord, thread, wick, rope, and tubing from Commercial through AAAA grades. All are made in one of the industry's newest plants. Thermoid asbestos products are available with glass-reinforced yarns and a variety of chemical treatments, coatings, and finishes. Write Thermoid, H. K. Porter Company, Inc., Pittsburgh, Pa.



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INDUSTRY NEWS

HAPPY BIRTHDAY

W. John Scotford, Technical Director, Wunderlich Limited, Sydney, N.S.W., Australia, September 15.

William L. VanDerbeck, Vice President for Production and Engineering, Johns-Manville Corporation, New York City, September 15.

Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.

Charles D. Harless, Vice President-Western Sales, Building Products Division, National Gypsum Company, Long Beach, California, September 17.

Albert Stroltbeck, Secretary, The Clark Asbestos Company, Cleveland, Ohio, September 17.

Walter F. Marcuse, President, Canadian Asbestos Company, St. Laurent, Montreal, Canada, September 18.

J. D. Christian, President & General Manager, Cassiar Asbestos Corporation Limited, Toronto, Ontario, Canada, September 19.

W. W. Oughtred, President & Chief Executive Officer, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, September 19.

S. Ralph Zimmerman, Jr., Executive Vice President, U. S. Asbestos—Grey-Rock Division, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, September 19.

Philip M. Malouf, President, United Asbestos Corporation Limited, Montreal, Quebec, Canada, September 21.

Victor J. Laskoski, Manager of Asbestos Fiber Sales, GAF Corporation, New York City, September 22.

Jay P. Nicely, Vice President of Sales, National Gypsum Company, Buffalo, New York, September 22.

Jack B. Stiles, Works Manager, Wunderlich Limited, Rosehill, N.S.W., Australia, September 24.

Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.

H. E. Martin-Leake, Managing Director, Kismet Limited, Fenlake Works, Bedford, England, September 25.

Thomas Richey, Jr., Vice President, Pacific Asbestos Corporation, San Francisco, California, September 25.

H. Leonard Falle, Vice President-Marketing, Atlas Asbestos Company, Montreal, Quebec, Canada, September 26.

D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

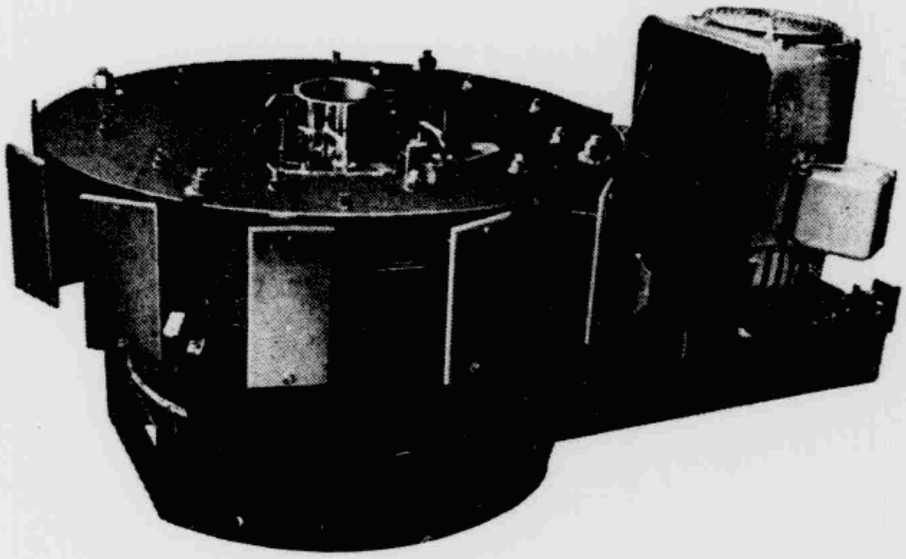
John W. Humphrey, Chairman of the Board, Philip Carey Corporation, Cincinnati, Ohio, September 28.

Sir William C. Fenton, Honorary President, BBA Group Limited, Cleckheaton, Yorkshire, England, September 29.

J. M. Bell, Plant Superintendent, Clinton Mine, Cassiar Asbestos Corporatoin Limited, Yukon Territory, Canada, October 1.

Wolf E. Lehmann, Director for Europe, Africa and the Middle East,

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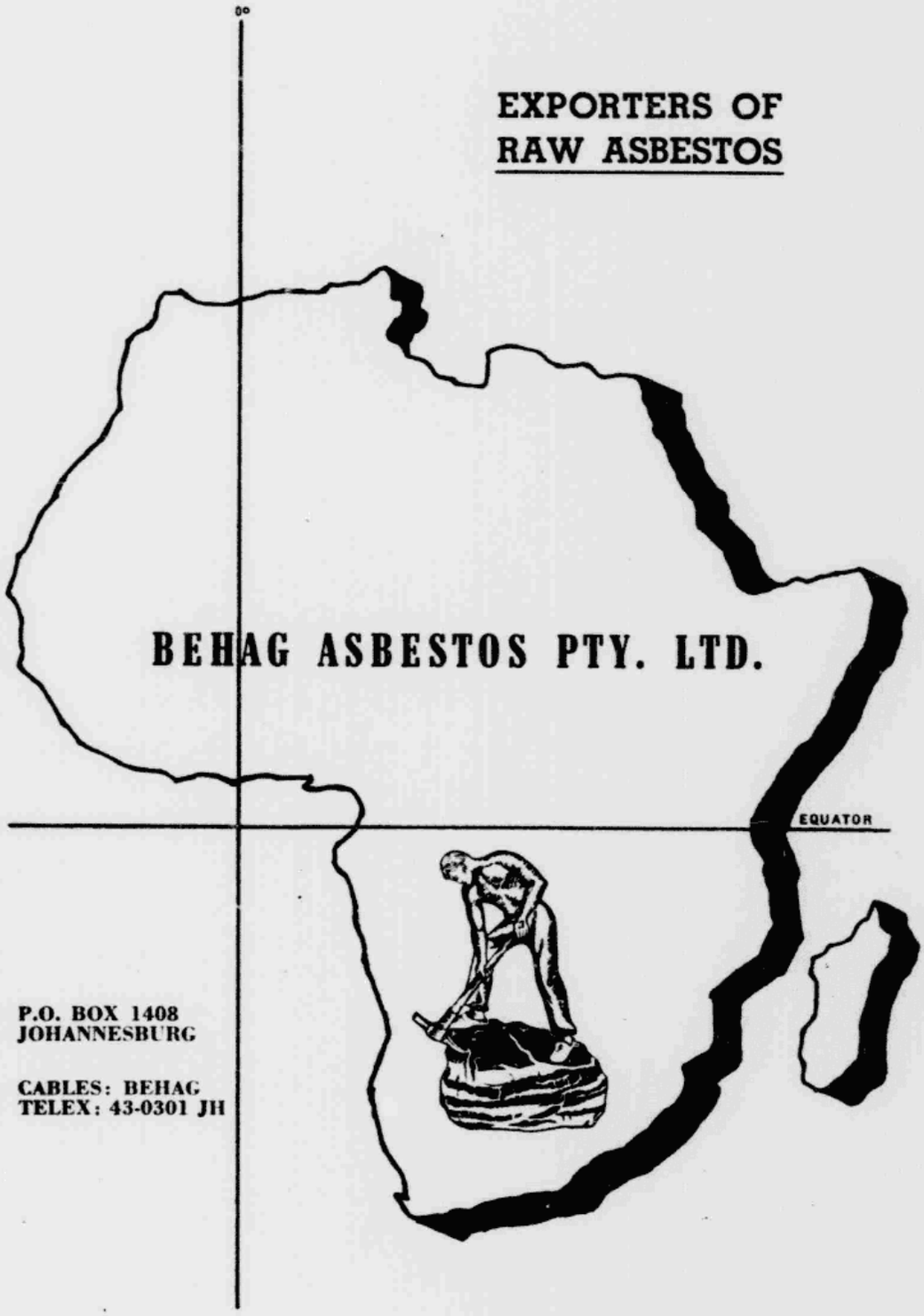
Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Limited, Montreal, Quebec, Canada, October 3.
C. M. Fox, Director, The Cape Asbestos Company Limited, London, England, October 3.
William P. Raines, Director of Public Relations, Johns-Manville Corporation, New York City, October 3.
Richard P. Clark, Product Sales Manager, Uniroyal, Inc., Winnsboro, South Carolina, October 4.
Dr. Eugene P. Stefl, Vice President & General Manager, U. S. Asbestos—Grey-Rock Division, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, October 6.
J. S. Munro, President, Raybestos-Manhattan (Canada) Limited, Peterborough, Ontario, Canada, October 7.
F. A. Cunnington, Vice President-Operations, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, October 8.
A. H. Adams, Vice President-Engineering, The Bauer Bros. Co., Springfield, Ohio, October 10.
J. G. Berry, General Manager, Cassiar Asbestos Corporation Limited, Toronto, Ontario, Canada, October 11.
David L. Neil, Director of Manufacturing for Building Products, GAF Corporation, New York City, October 11.
A. L. Penhale, Vice-Chairman of the Board of Directors, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, October 11.
Gordon G. Hazell, Manager, Technical Sales & Field Engineering, GAF Corporation, New York City, October 13.
Kenneth M. King, Jr., Vice President-Special Services, Bird & Son, Inc., East Walpole, Massachusetts, October 14.

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

Canadian Mines Handbook, 1969-1970 edition, reveals the strong expansion of the Canadian mining industry. New records were achieved in both production and exports in 1968. Asbestos is among the leading non-metallic minerals in both output and exports and is keeping up with current and projected world demand. While high prices account for some of the increase in value, volume was up for all of the leading minerals and metals. The search for new sources of ore has spread across the country and north into the Arctic regions. These activities as well as production and export tables for 1967 and 1968 are included. Corporate information, producers, mine offices and personnel, mill capacities and products are recorded. Also listed are Mines Departments, Associations and Securities Commissions, 30 pages of maps, and the 8-year range of stock prices. The Handbook is published by the *Northern Miner Press Limited,* 77 River Street, Toronto 247, Ontario, Canada. The 456-page volume is priced at $6.00 per paperbound copy and $7.00 for leatherette binding.

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The U.S. Geological Survey has published *The Tectonic Map of North America* on a scale of 1:5,000,000 and an accompanying *Professional Paper No. 628* to aid in using and understanding the map. North America is divided tectonically into foldbelts of different ages and platform areas where flat-lying or gently tilted rocks lie upon basements of earlier foldbelts. The two most extensive platform areas are those with Precambrian basement in the central craton, and those with Paleozoic basement in the Atlantic and Gulf Coastal Plains. Configuration of the upper surface of the basement beneath the platforms is shown by contours on a 500-meter interval. The foldbelts are distinguished by different colors according to age and where several significant times of deformation occurred within them, these are represented by tints of the prevailing colors. The different kinds of rocks which make up the foldbelts are shown by patterns of these colors. Shown separately and related to their associated foldbelts are both volcanic and intrusive igneous rocks. The configuration of the seafloor off the coasts of North America is shown by bathymetric contours at 500 meter intervals and by tints which emphasize oceanic depths and rises, many of which have great tectonic significance.

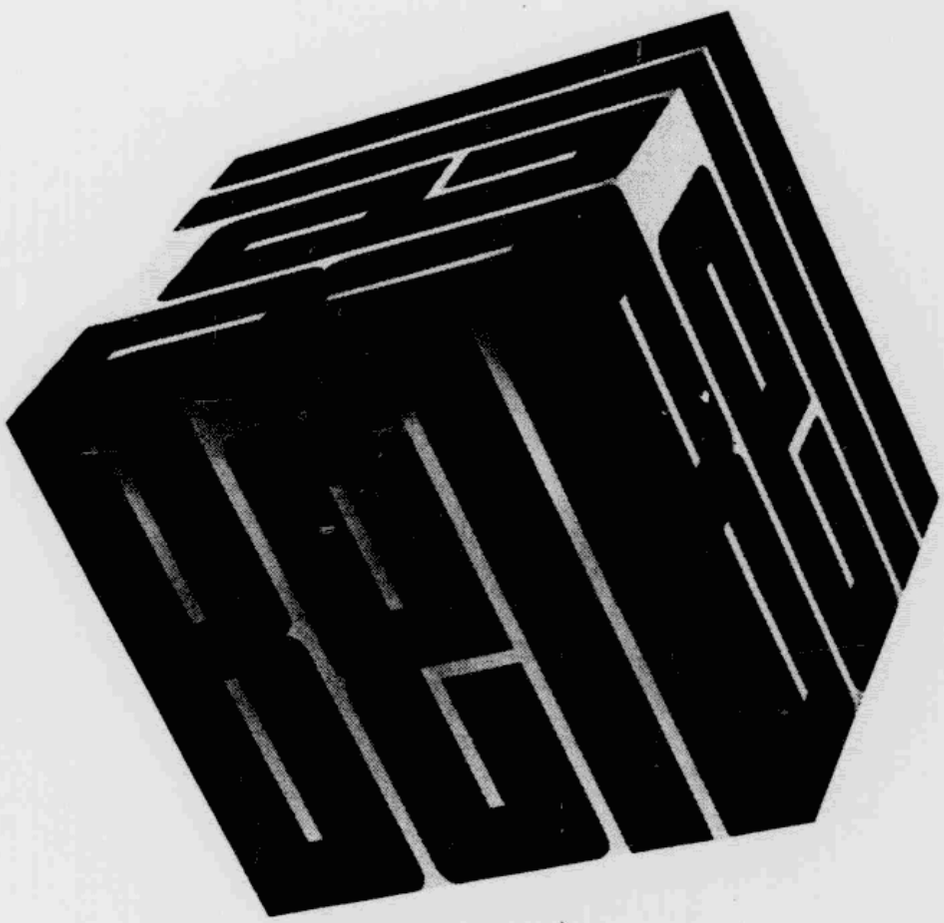
The Map is printed on two 40" x 65" sheets and is available at $5.00 per set from the Distribution Offices of the U.S. Geological Survey in Washington, D.C. 20242; Denver, Colorado 80225; and Fairbanks, Alaska 99701. The cost of the accompanying Paper is $1.00.

Australian Mineral Industry, 1967 Review, has been issued by the Bureau of Mineral Resources, Geology and Geophysics, Canberra. This very comprehensive report contains general information and pertinent statistics on the production, imports and exports of many minerals, including asbestos. The data concerns other countries and the world situation as well as Australia.

Australian production of asbestos declined to a pre-1952 level due to the cessation of crocidolite mining at Wittenoom, Western Australia, at the end of 1966. Exports, mainly from crocidolite stocks, declined in 1967 and imports of chrysotile were lower. There was a slight increase in the production of asbestos-cement sheets and molding. Asbestos Mines Pty. Ltd., at Baryulgil, in the Copmanhurst Mining Division, was the sole operator in New South Wales. The source of chrysotile was from Lionel, in the Pilbara Goldfield of Western Australia. Total apparent consumption of all types of asbestos was 50,794 short tons in 1967, compared with 63,975 tons in 1966. No statistics are available of actual consumption of asbestos by individual products. In 1967, the average export value of all types of asbestos, mainly crocidolite, exported from Australia was $173.50 per short ton f.o.b.

Products Shipped By Canadian Manufacturers 1966 has been issued by the Dominion Bureau of Statistics, Ottawa. Copies are available at 75¢ each by writing the Bureau for Catalog No. 31-211. Among the many items listed are: asbestos-cement boards and sheets, asbestos cloth, asbestos packing, asbestos paper, asbestos-cement pipe, and other asbestos products including clutch facings.

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PERSONNEL NEWS

CAREY-CANADIAN MINES, LIMITED

Michael Prus, former Operations Manager, has been appointed Vice President of Operations. The following gentlemen were appointed Directors: *Abner H. Bagenstose, Arthur Rosenbaum* and *Louis A. Pechstein, Jr.* Mr. Bagenstose is Vice President - Sales for Carey-Canadian Mines, Mr. Rosenbaum is Vice President - Administration and Finance of Philip Carey Corporation and Mr. Pechstein is Philip Carey's Secretary and Legal Counsel.

PHILIP CAREY CORPORATION

Maurice E. Hartke is the Plant Manager of Carey's newly-acquired Linden, New Jersey, plant. He will be responsible for all operations including asbestos paper producing and converting and SprayCraft fireproofing and soundproofing facilities. *Walter Jenks*, Manager of the Plant Quality Control Department for the past seven years, has been appointed Night Manager of all manufacturing operations in Cincinnati. *Donald Shirley*, formerly with H. K. Porter Company, Inc., is now Manager of Carey's Cincinnati Asbestos-Cement Plant. *Thomas F. Gutman* has been appointed Production Manager of the Perth Amboy Plant. Prior to joining Carey in 1968, Mr. Gutman was Production Superintendent in Cleveland for Johns-Manville Corporation.

CERTAIN-TEED PRODUCTS CORPORATION

Within the Certain-teed Asbestos and Plastics Division, *W. J. Reeves* is now Division Service Manager for Asbestos-Cement Pipe and will be located at Fort Washington, Pennsylvania, the national headquarters for the newly-formed CAP Division which combines the former Pipe and Plastics Divisions.

JOHNS-MANVILLE CORPORATION

William S. Poston and *John Shao-Chung Ho* were assigned to Hong Kong as Resident Sales Engineers of J-M International. Mr. Poston was formerly Sales Manager - Far East for H. K. Porter Company, Inc. and Mr. Ho was previously a Civil Engineer with the Los Angeles County Flood Control District.

NATIONAL GYPSUM COMPANY

Charles D. Harless, Director of National Accounts, has been elected Vice President of Western Sales, Building Products Division, succeeding the late *Conson Gustavus*. *Richard E. Pinkstaff* was assigned to the corporate staff in the newly-created position of Director of Management Training. Mr. Pinkstaff previously served as Training Director for the company's government contract operation

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ASBESTOS STOCK QUOTATIONS

Close—August 28, 1969

Abitibi Asbestos	**$6.95
Advocate	*$2.25
Asarco	28⅞
Armstrong Cork	39⅝
Armst Cork (pfd 3.75)	60½
Asbestos Corporation	*$24.75
Bendix	40½
Bendix (pfd 3)	66½
Carlisle	17½
Cassiar	*$17.50
Certain-teed	24¼
C-teed (pfd .90)	24
Conwest	*$8.25
Flintkote	26⅜
F-kote (pfd-A $4.50)	80½
F-kote (pfd-B 2.25)	37⅛
GAF	18¾
GAF (pfd 1.20)	26¾
Garlock	19⅞
Glen-Alden	9⅝
G-Alden (pfd 3)	67
Grace	30¾
Gulf & Western	23½
G&W (pfd 3.50)	90
G&W (pfd 3.87)	53½
G&W (pfd 5.75)	68¼
Johns-Manville	35
Maremont	12⅝
National Gypsum	29
Natl Gypsum (pfd 4.50)	63
Patino	*$37.00
Porter (pfd 5.50)	70½
Raybestos-Manhattan	46⅞
Unarco	10⅛
Union Carbide	44⅜
Uniroyal	23⅛
Uniroyal (pfd 8)	113

*Canadian currency
**Canadian currency—as of August 29
(Source: The Wall Street Journal)

PREPRINTS—1967 U.S. BUREAU OF MINES MINERALS YEARBOOK

The Mineral Industry of Angola, Mozambique, and Portuguese Guinea (10c)—The value of 1967 mineral commodity output in *Angola* was estimated at about $64 million (excluding petroleum refinery products) or equal to about 6% of the gross national product. For 1966, mineral commodity exports were valued at more than $49 million. Asbestos was not listed as being produced or exported in 1966 but imports totaled 1,352 metric tons.

The *Mozambique* mineral industry began to show signs of expansion in 1967. The country continued to derive substantial revenue from the transit of minerals, mined in neighboring countries, through its territory to the ports of Lourenco, Marques and Beira. During 1967, the value of mineral production (excluding petroleum products) increased to an estimated $8.2 million. Production of asbestos in 1967 reached 507 metric tons, against 486 tons in 1966. In 1956, 206 metric tons of asbestos were exported and 439 tons were imported. South African geologists reportedly discovered deposits of asbestos in the Catuane area. Gabinete Mocambique de Organizacoes Ida. and a South African group planned to finance mining activities in the area.

There was no significam production of mineral commodities in *Portuguese Guinea* in 1967. However, minor output of construction materials for local consumption probably was continued.

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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, 1969) Canadian Currency

AAA grade (non-ferrous spinning fiber)	$ 845.00
AA grade (non-ferrous spinning fiber)	673.00
A grade (non-ferrous spinning fiber—Canadian Group 3)	508.00
AC grade (asbestos-cement—Canadian Group 4)	363.00
AK grade (shingle fiber—Canadian Group 4)	249.00
CP grade (shingle fiber—Canadian Group 4)	234.00
AS grade (shingle fiber—Canadian Group 4)	217.00
CT grade (shingle fiber—Canadian Group 4)	211.00
AX grade (shingle fiber—Canadian Group 5)	193.00
CY grade (shingle fiber—Canadian Group 5)	136.00
AY grade (shingle fiber—Canadian Group 5)	136.00

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)	141.00 to	165.00
Group No. 6 (waste, stucco or plaster)	..	102.00
Group No. 7 (shorts & floats)	47.00 to	85.00

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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 July 15 through August 5, 1969.

3,456,931—Asbestos Millboard Conveyor Rolls for High Temperature Use, E. D. Ermenc & M. F. Smith (assigned to Philip Carey Corporation, a corporation of Ohio), July 22, 1969.

3,458,327—Coating Composition and Method, J. H. Fraser (assigned to Vonco Corporation, Inc., address not listed), July 29, 1969.

3,458,391—Modified Colloidal Chrysotile and Method of Preparing Same, O. A. Battista (assigned to FMC Corporation, Philadelphia, Pennsylvania), July 29, 1969.

Review of Canadian and British Blasting Practice in Open-Pit Mining is a paper prepared by W. B. Morrey and R. Shaw of the Explosives Division, Canadian Industries Limited, Montreal, Canada, and G. G. Riley of Imperial Chemical Industries Limited, Nobel Division, Stevenston, Ayrshire, Scotland, and presented at the Ninth Commonwealth Mining and Metallurgical Congress 1969.

It details the major developments in explosives technology over the last fifteen years or so which have had widespread impact on open-pit mining and quarrying in Canada. It records the history of these developments insofar as the blasting agents themselves are concerned, discusses the concurrent developments in primers, priming techniques and detonating fuses and describes the various methods which have been utilized for mixing and delivering ammonium nitrate-fuel oil and slurry-type explosives directly into the blast holes.

Also detailed are the applications of these developments to blasting operations in Great Britain and the modifications which have been made in certain of the systems to permit their use under the conditions encountered there which differ in some respects from those existing in Canada and the U.S.A.

This paper, along with all other papers presented at the Congress, will be published, with the discussion and authors' replies, in four volumes of proceedings, obtainable (March-June 1970) from the Ninth Commonwealth Mining and Metallurgical Congress, The Institution of Mining and Metallurgy, 44 Portland Place, London W1N 4BR, England.

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Advertisers: General Asbestos & Rubber Company; Norristown Magnesia and Asbestos Company; Asbestos & Mineral Corporation; The Franklin Manufacturing Company; Magnesia Association of America; Asbestos Corporation of Canada, Limited; Asbestos Textile Company, Inc.; Jacobs Asbestos Mining Company of Thetford, Limited; The Philip Carey Company; United States Asbestos Company; Bennett-Martin Asbestos and Chrome Mines Limited; and Ehret Magnesia Manufacturing Company.

The Yawman & Erbe Manufacturing Company, in its current advertising, gives credit for the efficiency of its steel filing cabinets to the Asbestos with which the cabinets are insulated. This is an interesting use of corrugated Asbestos paper.

The Metallo Gasket Company has recently been incorporated for the manufacture of a line of gaskets and other packings at New Brunswick, New Jersey. The officers of the company are: Zeno Schultes, President and Treasurer; George Geipel, Vice President; and Stanley S. Geipel, Secretary. The company will concentrate for a time on its Metallo corrugated gasket with asbestos cord inlaid in the copper grooves or corrugations.

Black Lake Asbestos & Chrome Company will default on the half yearly 3% interest on its $1,191,500 second mortgage income bonds on September 1st.

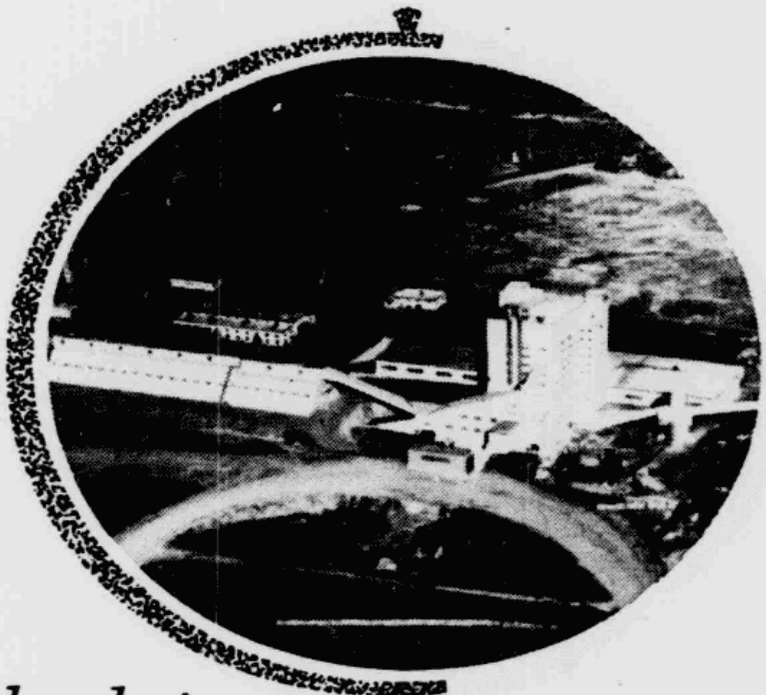
Mr. Watson Barratt, the artist, has been commissioned to paint the asbestos curtains in all the Shubert New York theatres.

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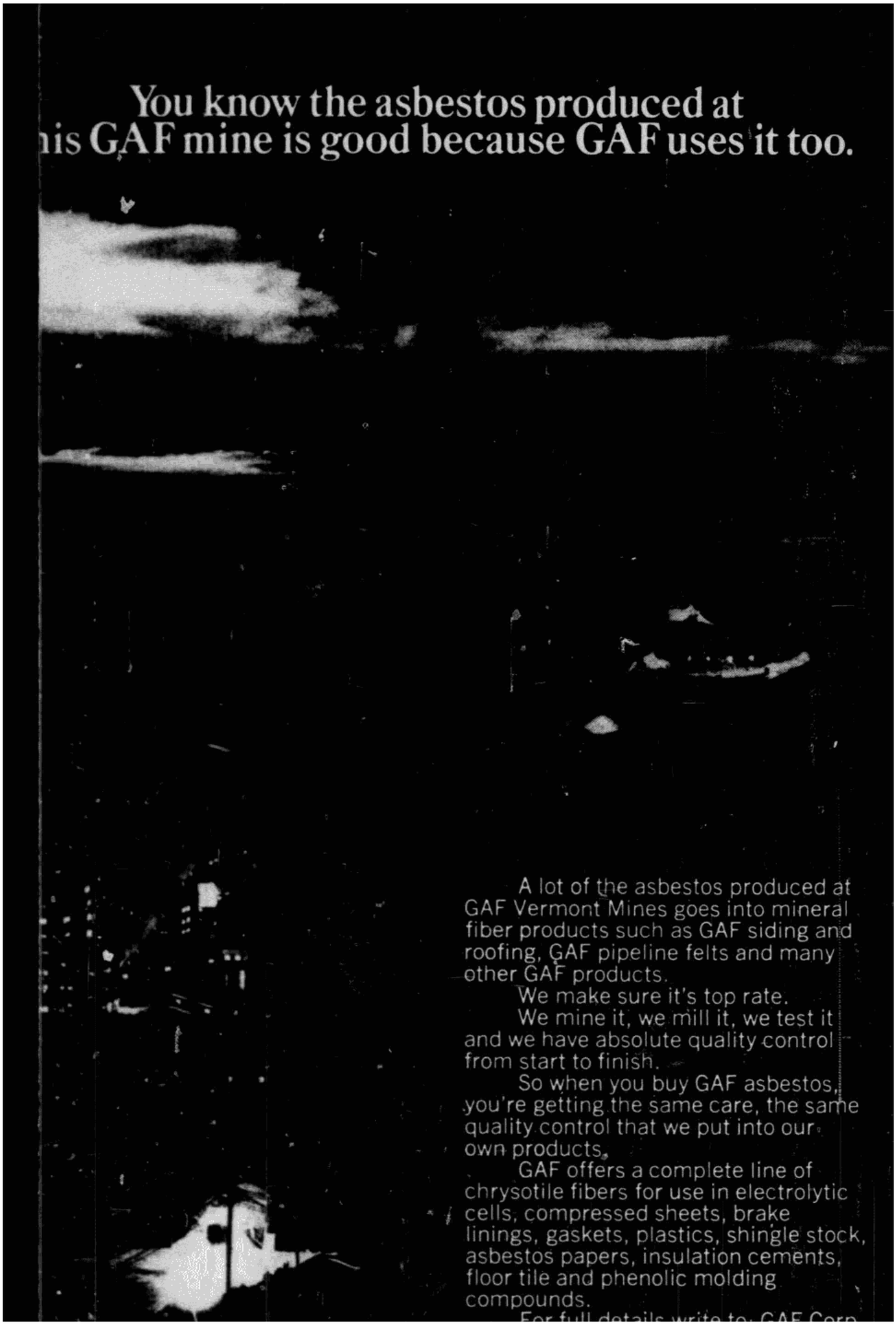
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Mt. Waverly, Victoria, Australia	K. V. Robinson & Ass. Pty., Ltd.
Wien, Austria	Robert Weisz
Taipei, Taiwan, China	Ziang Tai Mercantile Company
Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	Compagnie Commerciale de Minerais Et Matieres Premieres
Duisburg, Germany	Deutsche Asbest-Gesellschaft G.M.B.H.
Lubeck, Germany	Possehl Erzgesellschaft
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J .Deutsch
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	IHL-Hung Trading Co.
Mexico City, Mexico	Productos Quimicos Mardupol, S.A.
Haarlem, Netherlands	Chemische Productenhandel J. J. Van De Vrande
Auckland, C.I., New Zealand	Neill, Cropper & Company Ltd.
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	Intertrade
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.
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