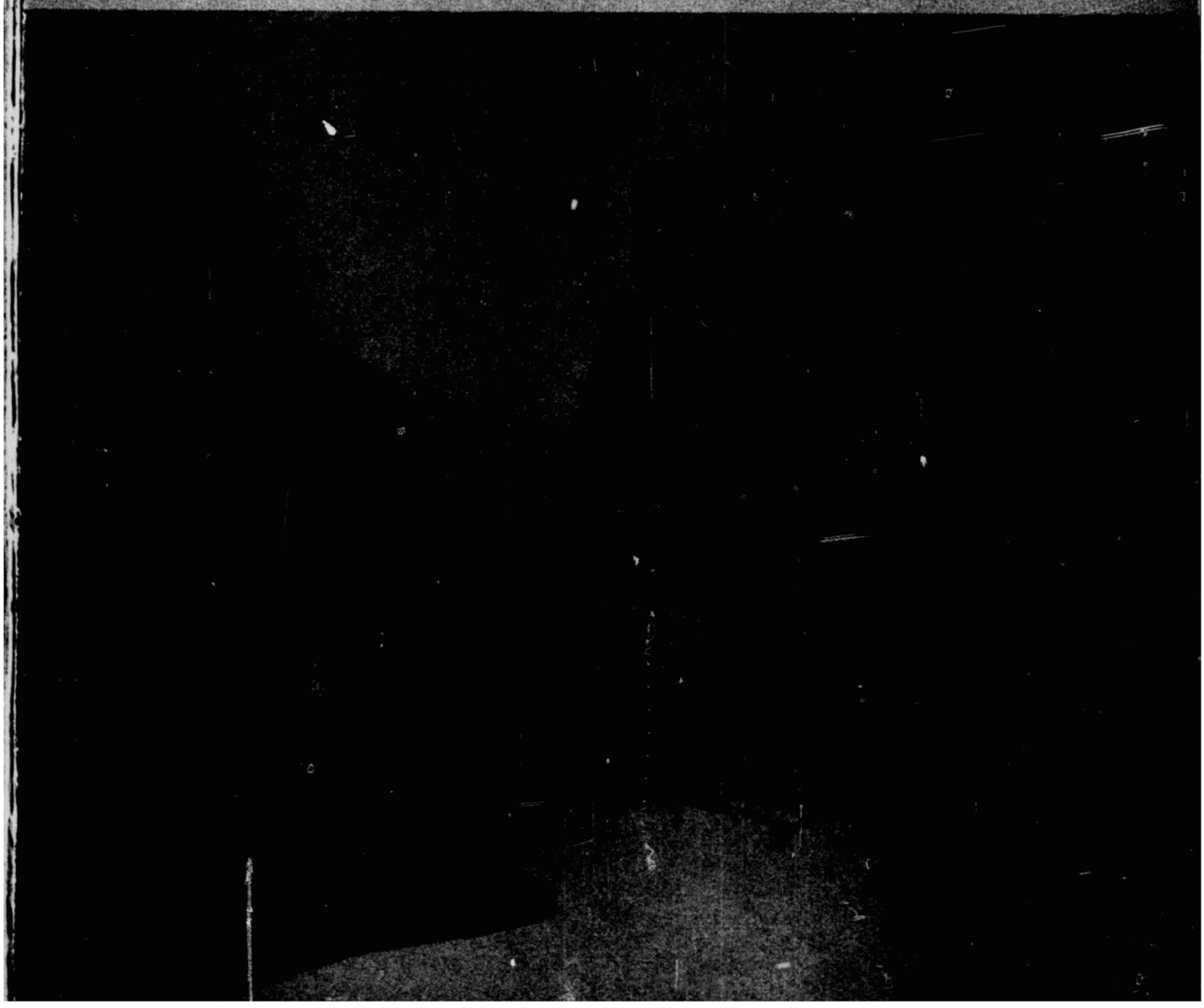
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DISC BRAKES

There is a rapidly growing trend toward the use of disc brakes on passenger cars, both foreign and domestic. The fact that several very large suppliers of components to the domestic automotive industry are building completely new facilities solely for the production of such brakes and most of the car builders are investing heavily in machining lines for processing discs and associated components indicates the time is not too far distant when both front and rear brakes of the disc type will be used on a very substantial percentage of passenger cars. In view of this trend, it seems appropriate to investigate the reasons behind it and to assess its implications so far as the producers of friction materials, and of the asbestos fibers used in such materials, are concerned.

Just as the internal-expanding type drum brake completely supplanted the external-contracting type drum brake many years ago, the disc brake would seem to have the potential to supplant the present drum brake on at least the front wheels of all but the lightest, cheapest, low-powered cars. Why is this the case? The answers are simple but deserve some explanation.

The typical internal-expanding drum brake consists of two rigid shoes to which the lining is attached and hydraulic or mechanical means for pressing the shoes apart or expanding them so the lining contacts the inner surface of a drum. The shoes and their actuating mechanism are held against rotation by a "brake backing plate" to which they are attached and which, in turn, is rigidly attached to a non-rotating part of the vehicle—front wheel spindle or rear axle housing. The drum is attached to, and rotates with, the hub which carries the road wheel. Through many and varied ingenious designs, one or both shoes may be made "self-energizing" meaning that, when it is pressed into contact with the rotating drum, the resulting frictional forces act to increase the pressure between lining and drum. This has generally been considered a desirable feature since it reduces the pedal pressure the driver must exert to achieve a desired braking effect. More on this later.

Over the years, improvements in friction materials, actuating mechanisms, shoe mounting arrangements and drum materials and design have all helped make the

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as we know it, an extremely efficient and dependable device. However, as weight and speed of passenger cars increased, it became apparent that the drum brake had one very serious limitation; under continuous downhill braking, or quickly repeated hard braking from high speeds, the brakes would lose their ability to stop the car in a reasonable or safe distance. This occurred, obviously, as a result of overheating and the consequent loss of braking power became known as "fade." It would serve no purpose to recount the many changes in brake design and lining formulation that have been made in an effort to eliminate "fade" from drum brakes. The fact that such efforts have been only partially successful can be attributed to one basic fault of the drum brake—a major portion of the heat generated during braking must be transferred through the relatively thick wall of the drum before it can be dissipated to the surrounding air which is its only coolant. This, of necessity, leads to a heat build-up on the inner, working surface of the drum, raising its temperature and that of the linings to unacceptable levels. Attempts to prevent this by directing cooling air to the inner surface of the drum have proven of little value since, in a typical drum brake, the lining makes contact with about 90% of the drum area so only about 10% of the hot drum face, at best, can be exposed to the flow of cooling air at any instant.

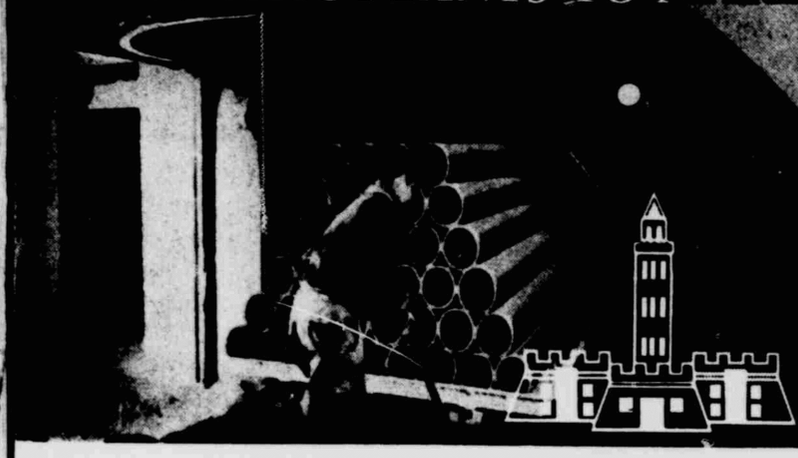
Changes in lining formulations have been of some help but use of "harder" linings up to, and including, sintered metal linings, results in higher pedal pressures and does not seem to offer an acceptable solution to the problem of "fade."

The "obvious" answer to a problem is not always so obvious until it has actually been found and successfully applied and this is certainly true in the case of the disc brake.

European Grand Prix racing, on circuits where a long straight may be followed by a sharp turn, involving braking from 200 plus to 30 or so mph in the shortest possible distance, places extreme loads on brakes. When it became obvious the drum brake had reached its limits in this type racing and something radical must be done to improve brake systems, the disc brake started coming into its own and is now universally used on Grand Prix cars. From there, it was only a short step to applying it to at least the front wheels of many high-performance foreign passenger cars. Now it

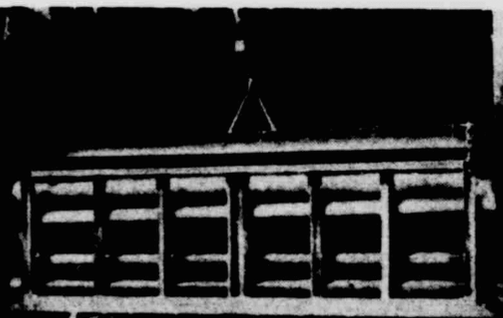
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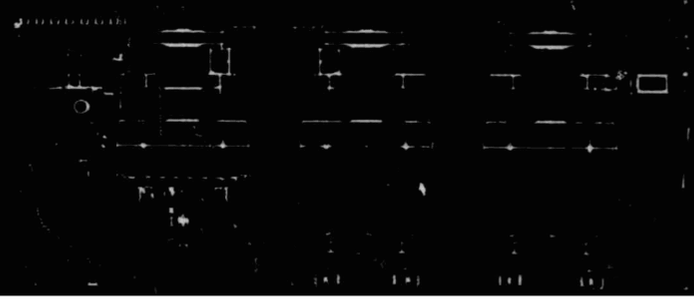


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cars, on several American cars, and is offered as optional equipment on many others. Why this rapidly increasing use of disc brakes despite their basically higher cost? Because they offer the best solution yet to the problem of "fade." An examination of the basic structure of a disc brake will show us why this is so.

The disc, which serves the same function as the more common drum, is attached to, and rotates with, the hub which carries the road wheel. The "caliper," which retains the pads of friction material and means for forcing them into contact with the disc, is, like the ordinary brake backing plate, fixed to the front steering spindle or the rear axle housing. A "single-caliper" brake will have two friction pads, one on each side of the disc. A "twin-caliper" brake will have four such pads, two on each side of the disc. When pressed into contact with the disc, these pads, working in opposition, literally "squeeze" the disc between them, resulting in zero side-thrust on the disc.

Here we have a brake which offers cooling far superior to that of any drum brake for several reasons.

First, all working parts, particularly the working faces of the disc, are out in the open and are fully exposed to a generous flow of cooling air. Heat is dissipated directly from the hottest part of the disc to the surrounding air. Likewise, when the brake is released, the working faces of the friction pads are directly exposed to air flow and are quite effectively cooled between brake applications.

Second, since both faces of the disc are working surfaces, the total area exposed to cooling air can be made appreciably greater than that in a drum brake of comparable braking power.

Third, the working area of the friction material is only about 10% of the area of the disc so about 90% of the disc area is completely exposed to cooling air at any instant during brake application in a single-caliper brake. In a twin-caliper brake, the area in contact with the pads would be about 20% and the area exposed would be about 80% of the total disc area, still a substantially better situation than that in a typical drum brake for which similar figures have been cited.

It is obvious that, from a cooling standpoint, the disc brake is far superior to the drum brake and, per se, much

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less subject to "fade" under severe braking conditions. In fact, except under the most extreme conditions—conditions unlikely to be encountered by passenger cars operating at legal speeds on American roads—it is practically "fade-free." Aside from this feature, which is really the "raison d'etre" for the disc brake, it has several other interesting characteristics.

1. Since pad area is small, unit pressure between pad and disc must be quite high to attain the desired total retarding force. This can lead to rather rapid wear of pads as opposed to drum brake linings having more area and operating at lower unit pressures. To achieve acceptable pad life, changes in formulation to make "harder" pads are generally made. While pads may require replacement more often than ordinary linings, the lower labor costs of such replacements tend to offset the increased frequency of this maintenance operation.

2. Disc brakes have no self-energizing feature as do drum brakes. To achieve acceptably low pedal pressures, most disc brake systems require power-assist of some type. This adds to the cost of the system on cars not already equipped with "boosters." However, from a safety standpoint, the lack of self-energizing characteristics is on the plus side since it gives the driver a better "feel" on the pedal and helps avoid the unintentional, but often uncontrollable, lockup which can happen during a panic stop with self-energizing drum brakes.

3. Harder lining formulations coupled with absence of self-energizing effect eliminate the lockup sometimes experienced with drum brakes during the first few stops on very humid days, particularly with "soft" linings.

4. Discs are self-cleaning and accumulations of dust which occur in drum brakes are avoided, reducing wear and the likelihood of scoring the metal working surfaces. Likewise, since centrifugal force acts to throw water off the rotating disc, wet weather has little or no effect on the performance of such brakes.

This article will be continued in the April 1969 issue of ASBESTOS and will assess the effects of wider use of disc brakes on the friction materials industry.

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Asbestos Textile Institute

The Asbestos Textile Institute held its first meeting of the year on February 5-7, 1969, at the Grand Hotel, Point Clear, Alabama.

The working committees—Technical, Sales, Air Hygiene & Manufacturing, and Fiber Testing—met on Thursday and the newly-formed "Environmental Study Committee," under the chairmanship of C. L. Sheckler, Johns-Manville Corporation, held its first meeting.

M. Q. Scowcroft, representing Raybestos-Manhattan, Inc., was elected to serve on the Board of Governors of A.T.I., replacing John A. Brown, Jr., also of R/M.

At the General Meeting, the newly-elected President of the Institute, E. A. Schuman of Johns-Manville, introduced the new Legal Counsel, Mr. Haven C. Roosevelt, who replaces former Counsel, P. Jay Flocken. Both of these gentlemen are with the legal firm of Cadwalader, Wickersham & Taft.

R. P. Gagnon, Director of Sales for Lake Asbestos of Quebec Limited, reported on the present supply-demand situation in the world market for asbestos fiber. According to Mr. Gagnon, it now appears we are entering a period where demand will exceed supply. This is due to the generally booming economies throughout the world creating a steadily increasing demand for Chrysotile asbestos fibers.

James W. Bolmeyer, Marketing Manager for E. I. du Pont de Nemours & Company, gave a most interesting talk on du Pont's High Temperature Resistant Nylon which is marketed under the trade name "Nomex." Samples of safety clothing and many industrial products made with Nomex were exhibited.

THE NEXT GENERAL MEETING of the Asbestos Textile Institute will be held June 18-20, 1969, at the Seaview Country Club, Absecon, New Jersey.

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Pacific Asbestos Limited

Pacific Asbestos Limited has a 4,000 acre asbestos property near Barraba, in New South Wales, Australia. According to R. H. Bullied, President, this economic asbestos deposit has minimum open pit ore reserves of 22 million tons and an overall inferred geological potential of 90 million tons. These figures are based on the results of over 100 drill holes, 50,000 feet of diamond drilling and over 400 core samples tested at the Quebec Department of Mines' pilot plant.

The fiber released from the drill core has been subjected to specialized tests involved in asbestos appraisal and compares favorably with fiber in the range of Groups 4 through 7 currently being produced and sold by Canadian operators.

At present, a bulk sampling program extracting some 2,000 feet of 12 inch diameter core drilling is underway on the property. Samples have been shipped to potential customers in Japan and discussions regarding markets are being held with Australian and Japanese consumers.

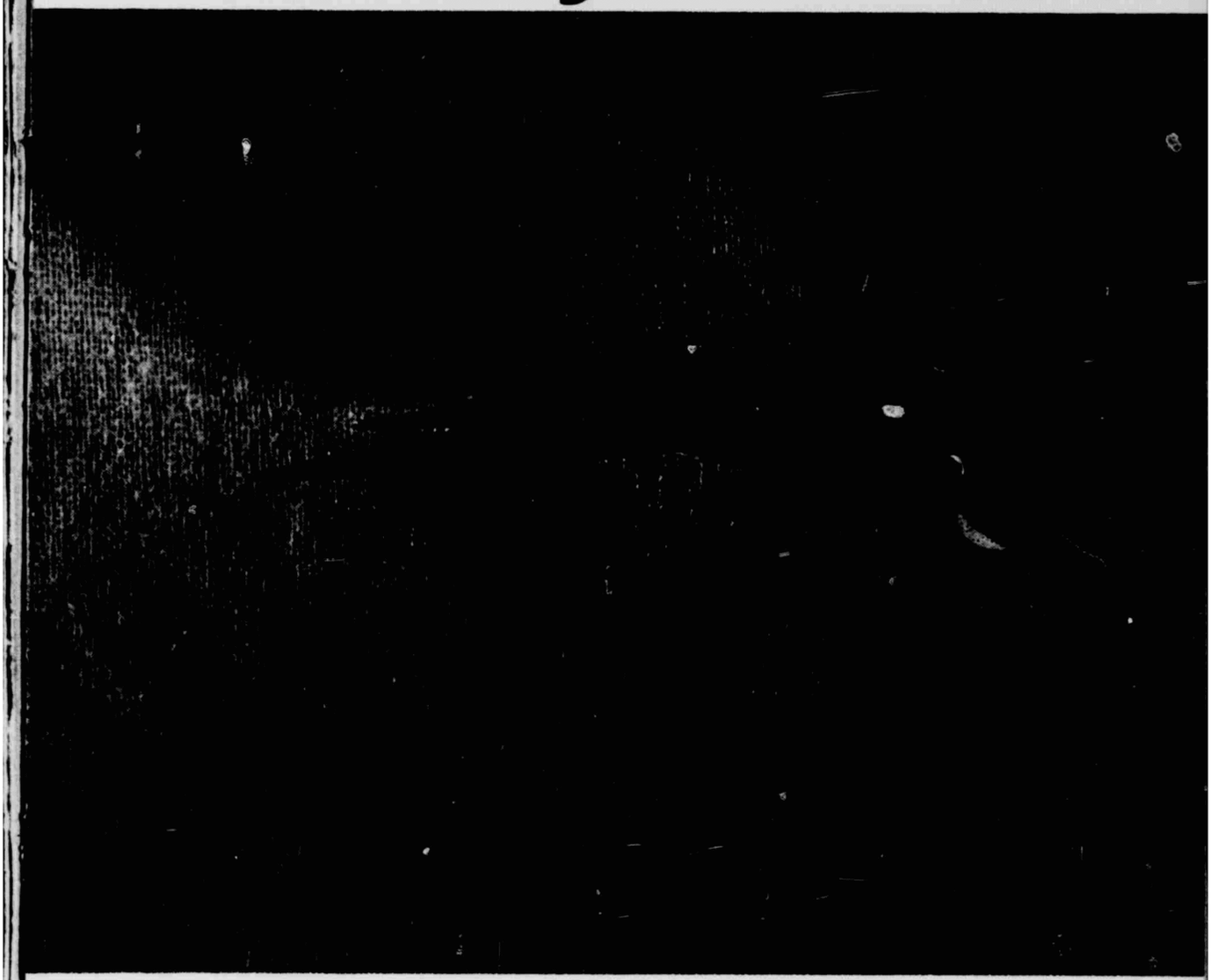
Concurrently, Pacific Asbestos' consultants—Watts, Griffis and McOuat Limited; Surveyer, Nenniger & Chenevert Inc.; and H. C. Jessen—are preparing a final and detailed feasibility study which is due for submission in September. The company is working toward a production date of 1971.

F. L. SMIDTH & CO. has, for over 60 years, engaged in the design and manufacture of machinery and in the development of production methods for the cement industry. Concurrently the company has contributed to the asbestos-cement products industry through its development of advanced machines and production techniques for the manufacture of corrugated and flat sheets, shingles, building pipes and pressure pipes, utilizing the process best suited to each particular end product. Data on the complete range of asbestos-cement production equipment offered by Smidth and a brief summary of the company's manufacturing activities are included in a new brochure entitled *"Modern Asbestos Cement Plants,"* obtainable either from F. L. Smidth & Co., New York City, or F. L. Smidth & Co. A/S, Copenhagen-Valby, Denmark.

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CERTAIN-TEED PRODUCTS CORPORATION has acquired *Kob Carpets, Inc.*, a carpet manufacturer in Cartersville, Georgia. Kob Carpets is privately held and has total annual sales in excess of $5 million. This acquisition represents Certain-teed's entry into the home furnishings market and will form the base for additional extensions of the company's interests in this field.

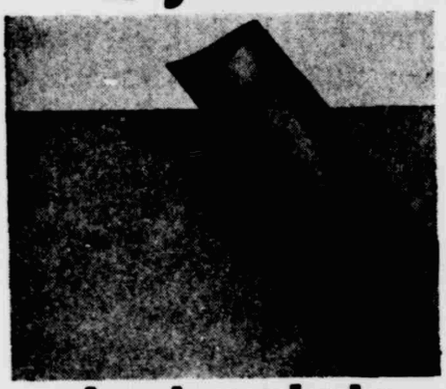
STEPHENS-ADAMSON MFG. CO. shareholders have voted to merge with BORG-WARNER CORPORATION. Final closing of the transaction awaits a ruling from the Internal Revenue Service on the non-taxable status of the transaction in respect to Stephens-Adamson shareholders. Stephens-Adamson, a closely-held manufacturer of *Sealmaster* bearings and bulk materials handling equipment and systems, earned $1.9 million in 1968 on sales of $49,189,000. Borg-Warner is a diversified manufacturer whose principal products are chemicals, plastics, air conditioning, and industrial and automotive equipment. The company earned $46.9 million in 1968 on sales of $975 million.

NATIONAL GYPSUM COMPANY and BINSWANGER GLASS COMPANY have completed their previously announced merger. Binswanger will operate as a separate subsidiary under the present management headed by Millard I. Binswanger, President. A major manufacturer of building materials, National Gypsum's basic product lines have been heavily oriented to serving the residential construction market, while Binswanger's fabrication and installation of curtain walls and other glass products have been keyed largely to the commercial construction field. Binswanger now serves 10 of the southeastern United States and is expected, in due time, to expand its operations nationally.

ACCOUSTIC NOISE MEASUREMENT is a technical course offered by *The Center For Professional Advancement*, Hopatcong, New Jersey. It will be held April 14-17, 1969.

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W. R. GRACE & COMPANY has reached an agreement in principle to sell the Grace Line, its chief shipping subsidiary, to *Admiralty Enterprises, Inc.* Grace has indicated it intends to keep a second shipping operation, a 50% interest in Gulf & South American Steamship Company, which it owns with Lykes Corporation.

W. R. GRACE & CO. and FISCHBACH & MOORE, INC. have agreed to call off their proposed merger because of uncertainties over proposed legislation affecting the use of debentures in merger transactions. The proposed merger would have involved the issuance of Grace debentures and stock valued at about $83 million.

According to both companies, reconsideration of the merger proposal is possible at a later date, depending on the outcome of tax legislation and market conditions at the time.

JOHNS-MANVILLE CORPORATION has broken ground for a new manufacturing plant at Spring Place, near Dalton, Georgia. The plant will be a complete carpet manufacturing operation and will supplement existing facilities of J-M's subsidiary, Crown Tuft Carpet Company. The factory will occupy 240,000 square feet on a 132 acre site and will eventually employ more than 150 persons, as additional equipment is installed. It is expected to be in operation before the end of the year.

JOHNS-MANVILLE INTERNATIONAL CORPORATION has opened an international district office in Coral Gables, Florida. John Lotz, III, Customer Relations Manager, will be in charge of the new facility which will serve southeastern U.S. distributors, manufacturers, architects and engineer-constructor firms dealing in overseas trade and also will cover the Bahamas, Jamaica and Bermuda in coordination with J-M's Caribbean headquarters in San Juan.

Johns-Manville, through its international division based in New York City, has more than 200 distribution points in 104 nations throughout the world. Sales offices, field representatives and distributors are backed up by the resources of extensive J-M mining and manufacturing facilities in the United States, Canada, Latin America and Europe.

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Automobile Sales

DECEMBER 1968 motor vehicle factory sales from plants in the *United States* totaled 881,914 (passenger cars —732,144, trucks and buses—149,770). The total for December 1967 was 957,842. For the YEAR 1968, the total amounted to 10,718,236 (passenger cars—8,822,158, trucks and buses—1,896,078). The total figure for the year 1967 was 8,976,226.

Motor vehicle factory sales from plants in *Canada* totaled 104,039 for December 1968 compared with 103,232 in December 1967. The total for the year 1968 was 1,153,013, against 941,750 for the previous year.

CERTAIN-TEED PRODUCTS CORPORATION's Pipe Division offers a comprehensive 16-page brochure containing specifications for its *FLUID-TITE Asbestos-Cement High Head Irrigation Pipe*. The specifications detailed in the brochure include general requirements, details of testing and crushing strengths, and tables of dimensions and tolerances for pipe and coupling sizes from 3″ to 24″, in Classes 100, 150 and 200.

CERTAIN-TEED PRODUCTS CORPORATION's Pipe Division is offering a brochure which contains engineering drawings and dimensions for its *FLUID-TITE® Asbestos-Cement Pressure Pipe*. The drawings indicate the position of the CERTA-SPACER(TM) band which automatically stops the pipe in proper position during assembly. Pipe sizes range from 3″ to 24″. The three classes available are 100, 150, and 200.

The division also has a brochure available which includes engineering drawings and dimensions for *FLUID-TITE® Couplings* for pressure pipe. This brochure also contains a complete listing of the district offices of the Pipe Division, which are conveniently located in key cities throughout the United States.

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MARKET CONDITIONS

General Business.

Latest figures available indicate some slowdown in general business, at least part of which is attributed to measures taken previously to combat inflation. However, economists are almost unanimous in predicting a relatively slight drop in business activity over the near future with no signs of a pronounced recessionary trend in the offing. Employment remains at historically high levels and the fact that many industries are operating at levels considerably under their full capacities is caused by shortages of labor rather than lack of orders.

Up to now, relations between Mr. Nixon and the Congress seem to be extremely good and, as pointed out some months ago, our major problems can only be solved by use of a bi-partisan approach and leaders of both parties apparently are well aware of this.

The Paris negotiations have made little headway toward solution of the Vietnam problem and, in the meantime, the Middle East situation is becoming of even greater concern as a threat to world peace.

As this is written, Mr. Nixon has just started his foreign trip and it is hoped the planned series of face-to-face meetings with the heads of governments of the non-Communist countries will be successful in improving relationships of the United States with these countries and, possibly, encouraging improved relations among certain of those nations which have not been seeing exactly "eye-to-eye" on solutions to some of their most pressing, mutual problems.

The stock market has shown signs of weakness lately, attributable in part to uncertainties as to the effect of anti-inflationary measures already taken by our government and to the uncertainties of the present international political situation.

NATIONAL FIRE PROTECTION ASSOCIATION will hold its 73rd Annual Meeting at the Americana Hotel in New York City May 12-16, 1969.

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Asbestos on the moon.

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

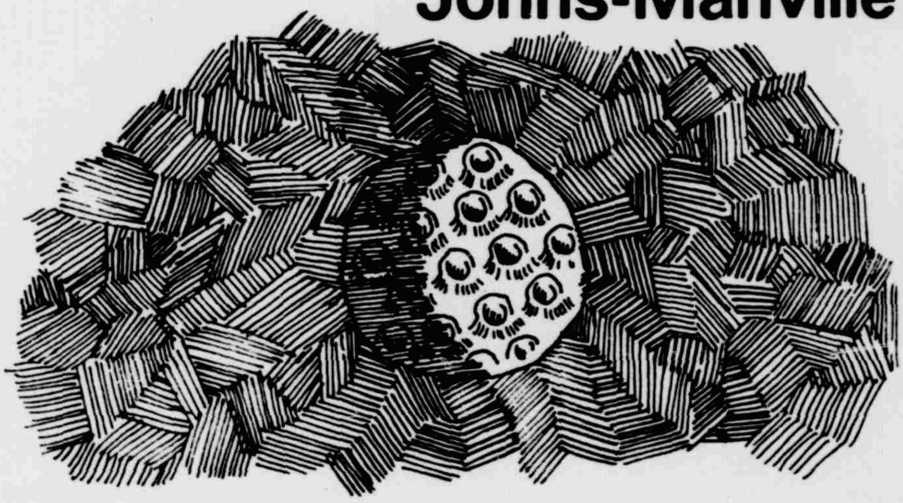
Back on Earth, you can find asbestos just about everywhere you look. In industry, our asbestos fibers add strength and fire-retardant qualities to J-M Transite® pipe, insulation, and clutch and brake linings. To mention just a few.

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

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

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QUEBEC ASBESTOS MINING ASSOCIATION elected the following officers for the year 1969: K. V. Lindell, President; R. J. Merrill, Vice President; George Robinson, Treasurer; Paul Filteau, Secretary and General Manager; and Ivan Sabourin, Legal Adviser. Elected as directors were R. S. Coleman, J. A. Main, Michael J. Messel, W. W. Oughtred and F. P. Smith.

THE THETFORD MINES BRANCH of the *Canadian Institute of Mining and Metallurgy* held its annual meeting in November, and elected the following Branch Officers for the year 1969: Chairman, *B. M. Fairlie*, Flintkote Mines Limited; Vice Chairman, *W. P. Archer*, Canadian Johns-Manville Company Limited; Secretary-Treasurer, *T. W. Shaw*, DuPont of Canada Limited; and Membership Secretary, *L. Lacasse*, Asbestos Corporation Limited.

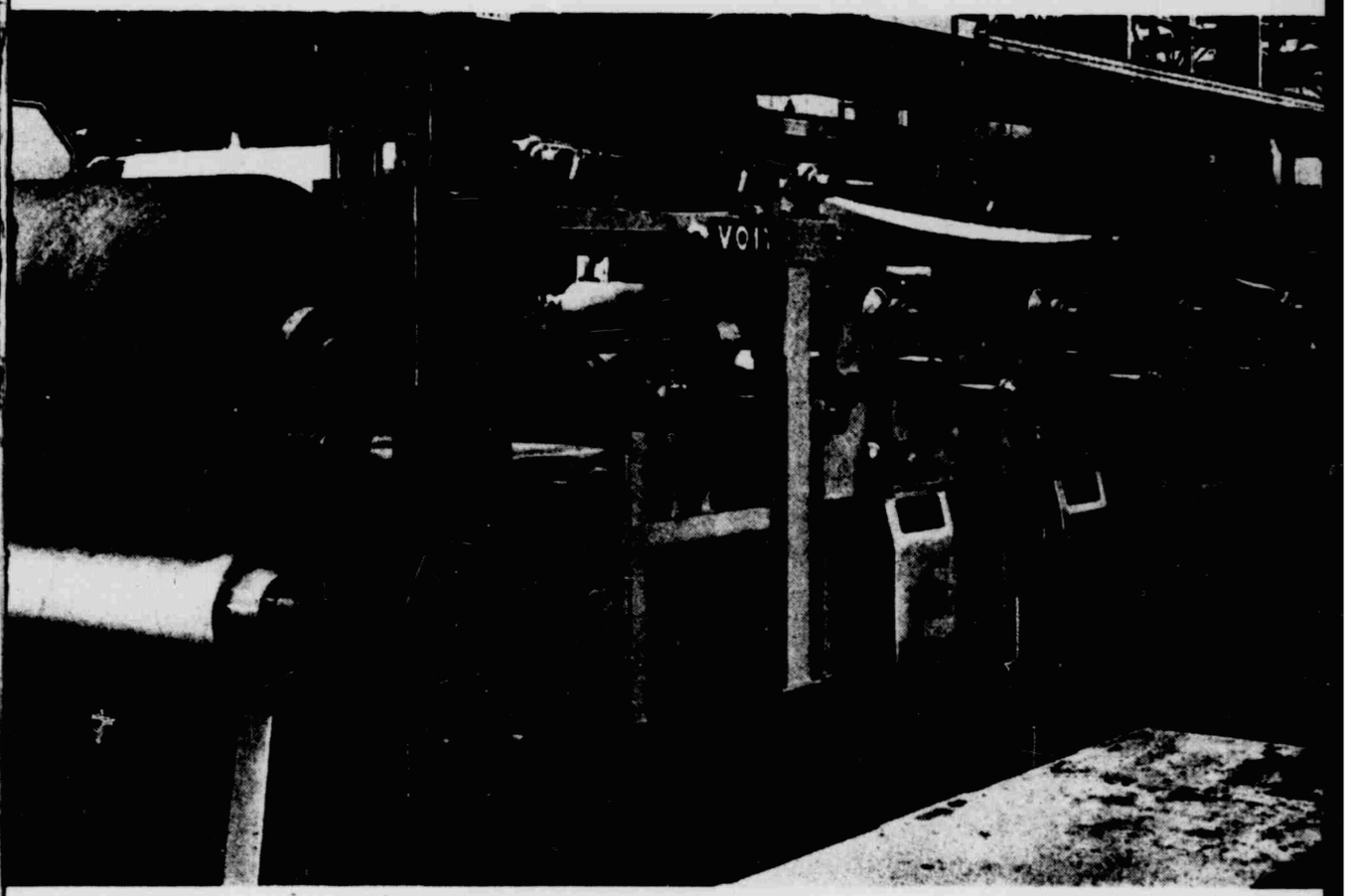
At a special December Meeting, the members of the Thetford Mines Branch of CIM heard an interesting talk on "Pit Slope Stability" given by the guest speaker, C. O. Brawner, a consulting engineer with Golder, Brawner & Associates Limited, of Vancouver, British Columbia, Canada.

In Memoriam

ARTHUR W. KNIGHT, associated with the Asbestos Industry for many years, passed away November 27, 1968. He had served 43 years with Johns-Manville Corporation when he retired in 1957. At the time of his retirement, Mr. Knight was Regional Sales Manager of the Pacific Region of J-M's Industrial Insulation Division. After retiring from J-M, he maintained contact with the Industry through his association with Thorpe Insulation Company and Asbestos Products and Fabricators Company, both of which represented J-M in different fields.

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200 tons
daily production



SM 967

that is the output
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asbestos cement sheet machine
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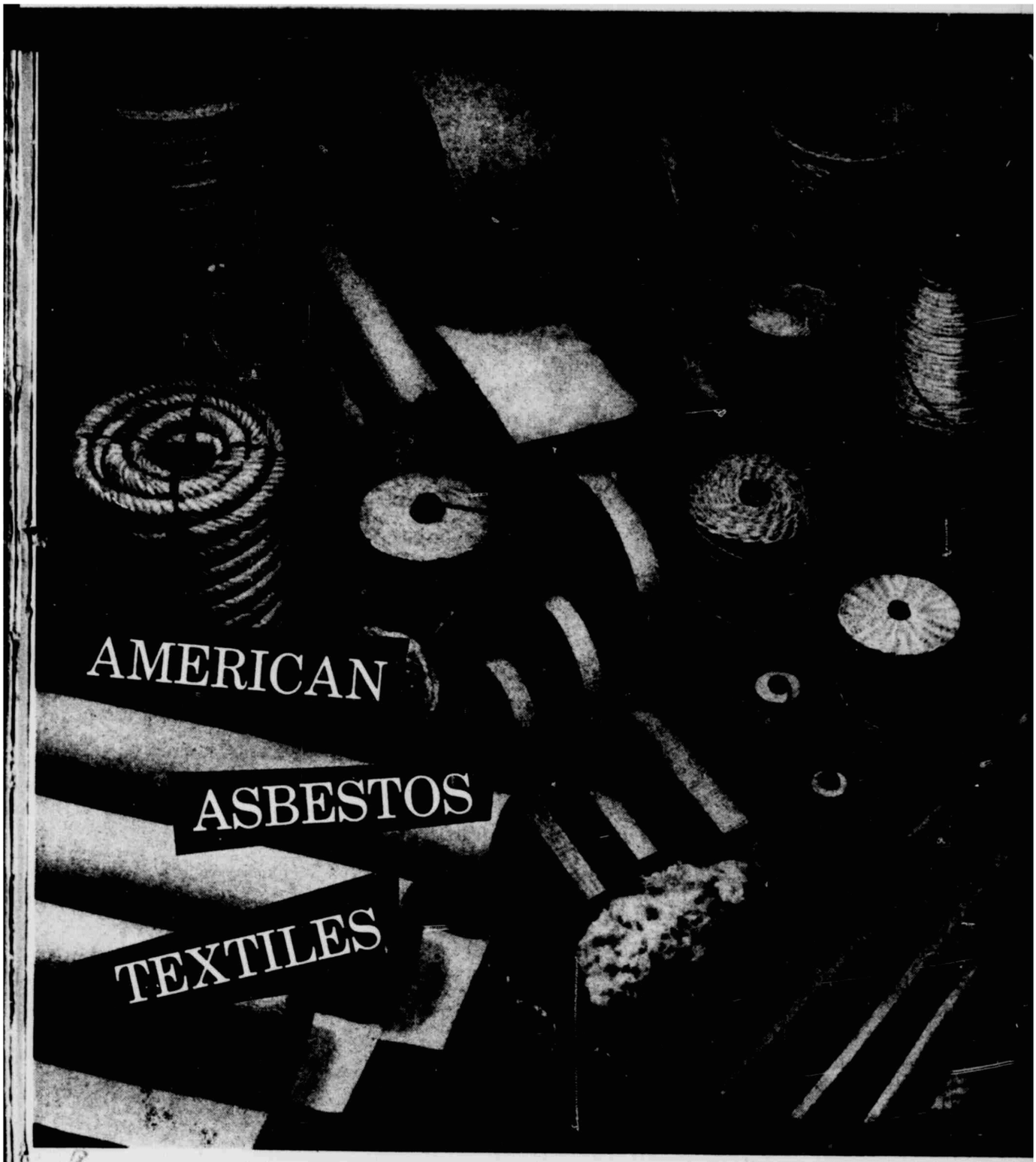
PART 14 OF THE 1968 BOOK OF ASTM STANDARDS, entitled *"Thermal and Cryogenic Insulating Materials, Acoustical Materials, Fire Tests, Building Constructions,"* is available from the American Society for Testing and Materials at $10.00 per copy, plus handling and shipping charges. Among the 98 standards in this book are "Recommended Practice for Measurement of Airborne Sound Insulation in Buildings" and "Specification for Mineral Fiber Block and Board Thermal Insulation."

CONSTRUCTIONS STANDARDS SEMINAR will be presented March 17-18, 1969, at the Sheraton Chicago Hotel, Chicago, Illinois. It will be instructional in nature and cover the preparation and efficient use of standards for specifying products, measuring performance, and designing of commercial, industrial and public constructions. Nationally recognized engineers and scientists will discuss the use of standards for foundation, structural and nonstructural elements, sealing, and fire suppression problem areas. The Seminar is sponsored by the American Society for Testing and Materials, the Construction Specifications Institute, and the Building Research Institute.

THE MINING ASSOCIATION OF CANADA has issued two booklets. One is entitled *"Mining in Canada"* and briefly gives facts and figures indicating the importance of the Canadian mining industry as an integral part of the continuing development of Canada's national economy. The second brochure is *"Mining: Leader in Exports"* which emphasizes the significance of the mining industry's contribution to the national prosperity of Canada through the export of its products.

DESIGN ENGINEERING SHOW & CONFERENCE will be held in New York City May 5-8, 1969. The Show will take place at the New York Coliseum and the Conference will be held at the Waldorf-Astoria Hotel.

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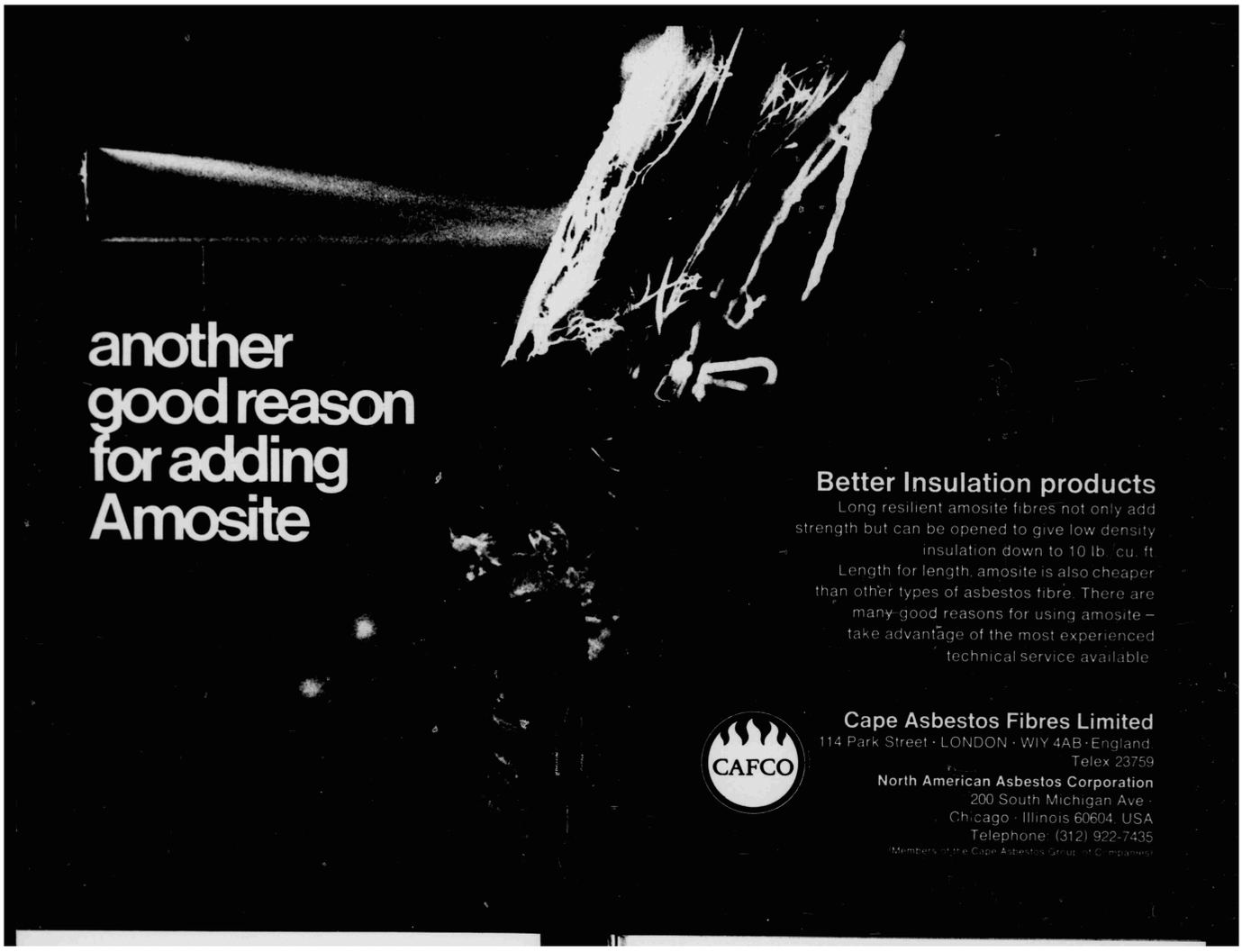
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Building

From: McGraw-Hill Information Systems Company

JANUARY 1969 contracts for future construction totaled $4,766,041,000, 28% above the first month of last year. This resulted in a rebound of the seasonally adjusted Dodge Index to 191 (1957-1959 = 100). A surge of commercial building projects helped to reverse a two-month decline in the Index. Two large Manhattan office buildings dominated the month's awards: a $150 million skyscraper-plaza to be known as 55 Water Street and a $75 million building in the Rockefeller Center complex which will be the future home of McGraw-Hill.

Nonresidential building contracts, up 59% from last January, reached $2,144,840,000 and registered solid gains in stores and warehouses, educational buildings and hospital health facilities.

Residential building contracts were valued at $1,746,-367,000 and led January 1968 by 19%. With almost all of today's housing gains confined to apartments, the effect on growth in building value is diluted. The construction cost of a typical one-family house (exclusive of land) is close to $20,000, while the average apartment unit is built for about $12,000.

Nonbuilding construction contracts totaled $874,834,000, 3% below the year-ago value. Most of the decline was due to a reduced volume of highway construction.

CONSTRUCTION MARKET OUTLOOK—Housing will spark construction growth in the 1970's and the value of total construction is expected to climb to $131.5 billion by 1980, an increase of 73% over the $76.2 billion of construction in 1967. This preview of the future construction market was revealed by the "1980 F. W. Dodge Construction Market Outlook," a special report released by the Economics Department of McGraw-Hill Information Systems Company. The growth rates represent realistic trends rather than idealistic goals, taking into consideration limitations in the supply of labor, materials and credit. If this projected volume of construction is to be realized, progress must be made in the more efficient use of labor; the adoption of new building techniques, materials and more flexible building codes; and the development of additional sources of credit for the construction market.

Asbestos Magazine, 1969, March 1969
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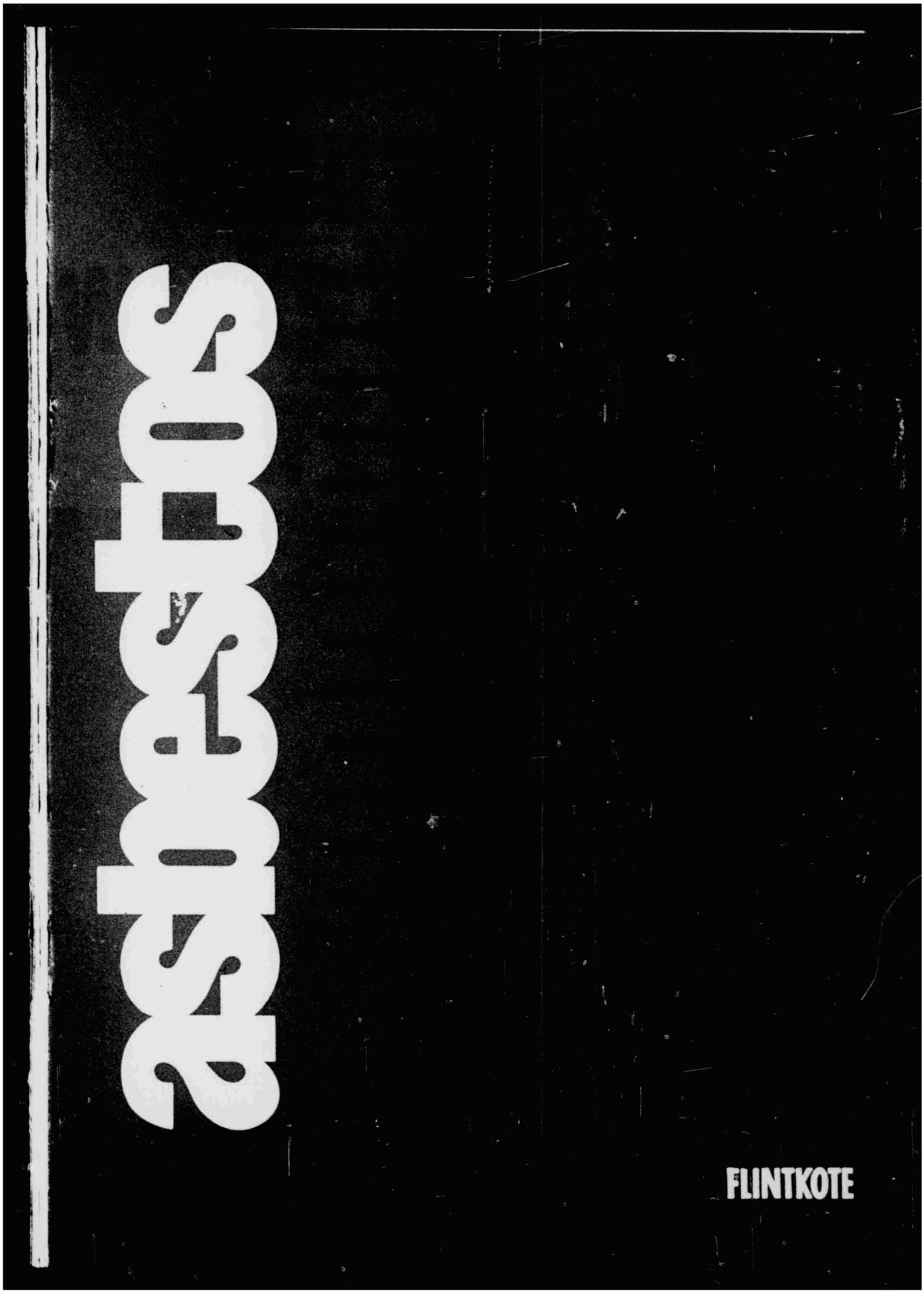
ACRISON, INCORPORATED, has a complete set of literature available on its *dry materials metering and handling equipment*. Two of the bulletins in this set describe Acrison's Recipro-Pivotal Hoppers and Hopper Bottoms which, according to the company, have been used for handling short asbestos fibers. The company maintains equipment at its plant in Passaic, New Jersey, to demonstrate its capabilities to potential users.

GARDNER-DENVER COMPANY has designed and built a new type of self-contained blasthole drilling unit, equipped with a heated cab, to increase productivity when drilling in sub-zero temperatures. The drilling rig has an SP900 Rota-Screw compressor, a PR133 Power Rotation drill with a 20-foot feed and a steel changer for 20-foot drill rods. The insulated, all-weather cab is equipped with a 4200 BTU water heater, a seat, and a console for drill operation.

THE CANLONG OIL-FIRED WATER HEATER, specifically designed for heating drilling fluids during cold weather operations, has been announced by *Canadian Longyear Limited*. Consistent and controlled oil flow through low temperature carburation assures maintenance of drilling fluid temperatures under extreme outside temperature and atmospheric conditions. To avoid the possible fire hazard of a built-in fuel tank, the Canlong Heater is fed through a flexible hose from an oil drum which may be placed at a safe distance from the heater. The gravity feed drip-type burner functions reliably in high winds and extreme cold, and forced draft is provided by a hose leading from the water pump engine. The low center of gravity, relatively light weight (275 pounds) and steel skid mounting allow for ease of handling the unit and placing it in its operating position. The heater is designed to operate at fluid pressures up to 250 psi.

THE DELAWARE VALLEY CHAPTER of the *Acoustical Society of America* will hold its next monthly meeting on March 25, 1969. The proceedings will consist of a "Forum on Machinery Noise Reduction."

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asbestos
FLINTKOTE

SOLID-LIQUID SEPARATION is a 1020 page review and bibliography by J. B. Poole and D. Doyle, published by the Chemical Publishing Company, Inc. Among the major aspects covered are filtration, flocculation and coagulation, sedimentation, hydrocyclonic separation, centrifugation, and electro-osmosis. The materials undergoing treatment are separately dealt with and over 5000 references have been abstracted and classified by subject matter and date. The bibliographic section is preceded by 25 review articles dealing with the theoretical aspects of solid-liquid separation methods and with the application of the methods in a wide variety of industries. Included is a note on the availability of the literature covered and a list of translated foreign journal and book titles. This book is available through **ASBESTOS**.

ASBESTOS BULLETIN listed the following items in its November-December 1968 issue: "Competition Between Asbestos Monopolies," by M. Ryskin; "Sayanskii Deposit of Chrysotile Asbestos," by A. K. Sibilev & V. P. Eremeev; "Hydrothermal Treatment of Asbestos Cement Pipes on Conveyor—Part 2, Asbestos Cement," by V. F. Shekurov; "A Study of Thermal Moisture Transfer in Hardening Asbestos Cement," by M. P. Volarovich et al; and "A Study of Asbestos Cement Wastes as Raw Materials for the Production of Heat-Insulating Products," by K. Gaigalas.

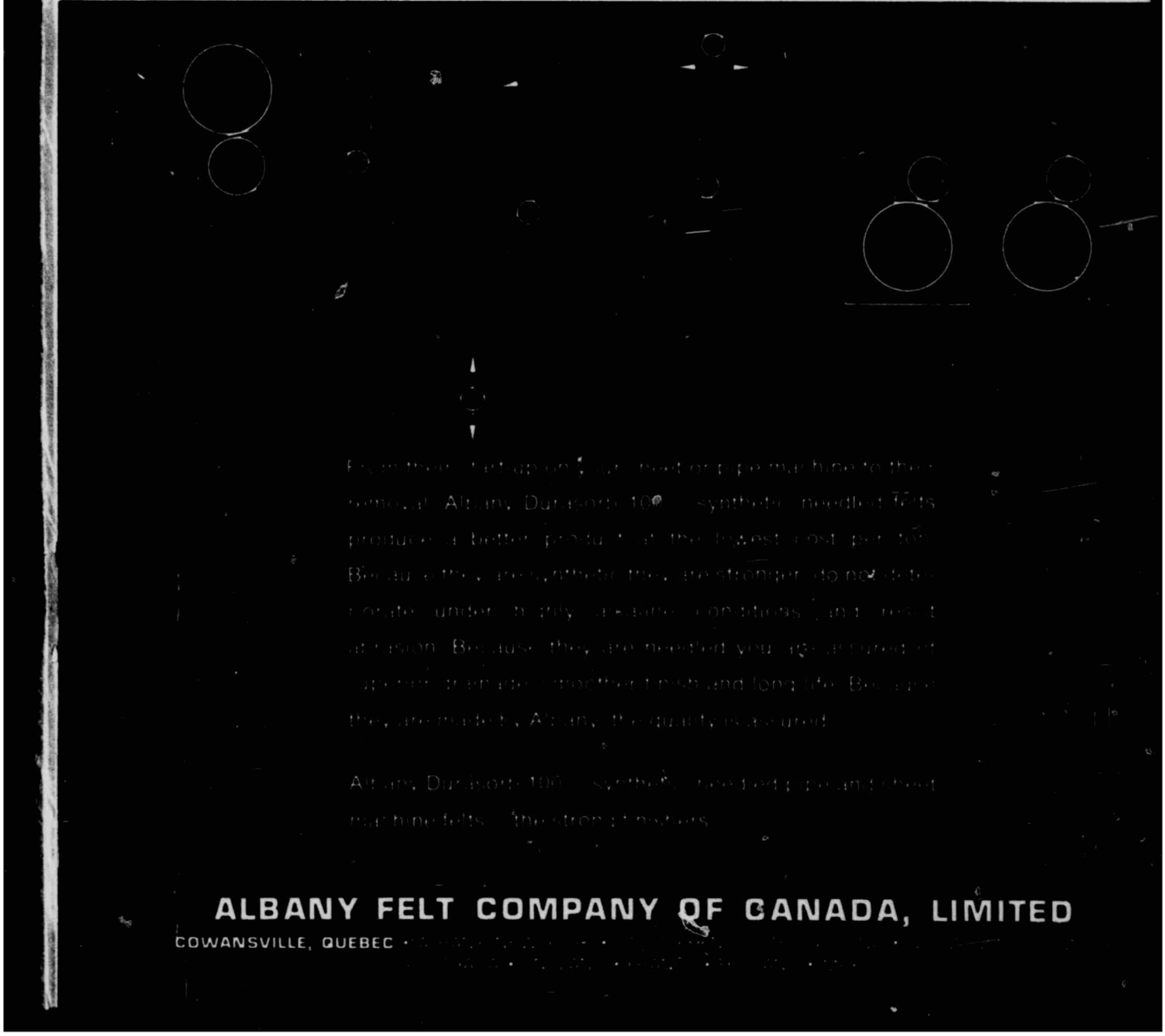
JOHNS-MANVILLE CORPORATION has announced a 6-9% increase in the prices of its lines of asbestos cloth. This price increase, effective February 1, has been attributed to rising costs of labor and raw materials.

EDOK S.A.–ETER S.A.
Athens, Greece

is now producing sanitary pipes and a complete range of fittings at its new plant at Patras. The pipes are being manufactured via the latest SALVANESCHI methods, including the new 3700-4 machines.

Within a few months, the plant will commence the production of corrugated sheets and pressure pipes.

Durasorb works best from start to finish



ALBANY FELT COMPANY OF CANADA, LIMITED

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 9,927,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the SECOND QUARTER of 1968.

Canada—According to the Dominion Bureau of Statistics, 152,206 short tons of asbestos were produced during *October 1968*. The total production figure for October 1967 was 133,286 tons.

During *November 1968*, 150,016 tons were produced, compared to 165,902 tons in November 1967.

Canada produced 51,115,023 square feet of vinyl-asbestos floor tile during the *Fourth Quarter of 1968* and shipments for the same period amounted to 45,973,239 square feet. The figures for the *Year 1968* are 183,689,477 square feet for production and 181,072,618 square feet for shipments.

Imports of vinyl-asbestos floor and wall tile from *January through September 1968* amounted to 284,076 square feet, valued at $20,000.

According to the Dominion Bureau of Statistics, Ottawa, the firms reporting these figures were American Biltrite Rubber Company (Canada) Limited, Armstrong Cork Canada Limited, Building Products Limited, Dominion Oilcloth & Linoleum Company Limited, and The Flintkote Company of Canada Limited.

Canada imported 284,076 square feet of vinyl-asbestos floor and wall tile, valued at $20,000, during the period *January through September 1968*. Imports for the first nine months in 1967 were 195,219 square feet, valued at $14,000. These figures were provided by the Dominion Bureau of Statistics, Ottawa.

Surinam imported 1,229 metric tons of asbestos and asbestos-cement building materials during the year 1967. The principal sources were United Kingdom and Belgium-Luxembourg.

Uruguay imported 1,094 metric tons of asbestos during 1967, valued at $265,296.

Products Shipped By Canadian Manufacturers 1965 (Catalog No. 31-211, annual) is available from the *Dominion Bureau of Statistics*, Ottawa, Canada, at 75c per copy. Although most of the items listed are commodities, services performed by manufacturing establishments are also covered. Statistics on asbestos products are included in this report.

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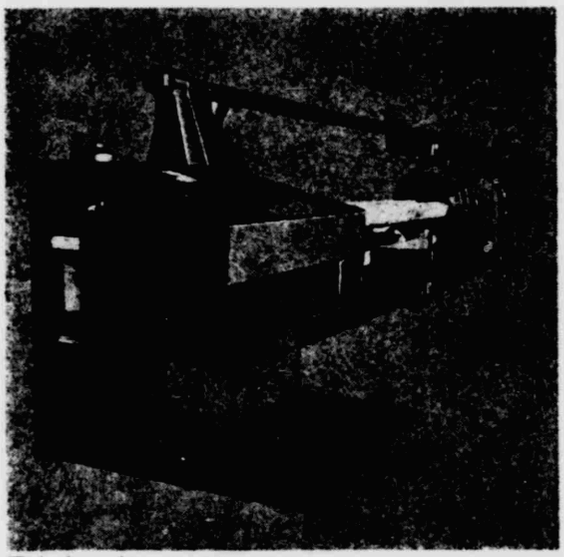
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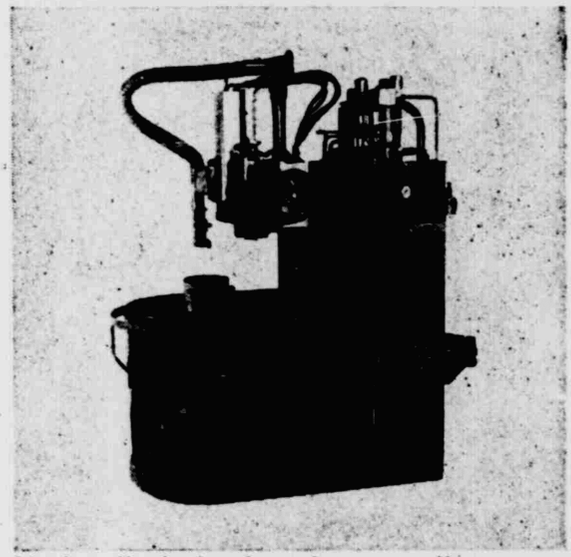
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Triple pipe test press



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Imports Into U.S.A.

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

Unmanufactured Asbestos:	NOV. 1968	DEC. 1968
Amosite, South Africa	1,517	2,495
Crocidolite (Blue), South Africa	1,229	745
Chrysotile, Crude, Finland	187	..
South Africa	110	..
Chrysotile, Spinning Fibers, Canada	974	1,471
Chrysotile, Other, Canada	43,917	74,689
Rhodesia	210	..
Asbestos, Other, Canada	2,747	1,839
Finland	231	492
Portugal	5	..
	51,127	81,731

November 1968 imports of unmanufactured asbestos were valued at $5,144,400.

December 1968 imports of unmanufactured asbestos were valued at $6,225,666.

Manufactured Asbestos Goods:		NOVEMBER 1968	
Asbestos Yarn, Slivers, etc.	Lb	180,708	$ 139,175
A-C Pipes, Tubes & Fittings	Lb	5,594,361	241,997
Asbestos-Cement Articles, Other	Lb	1,226,714	168,703
Asbestos Articles, Other		..	108,077
			$ 657,952

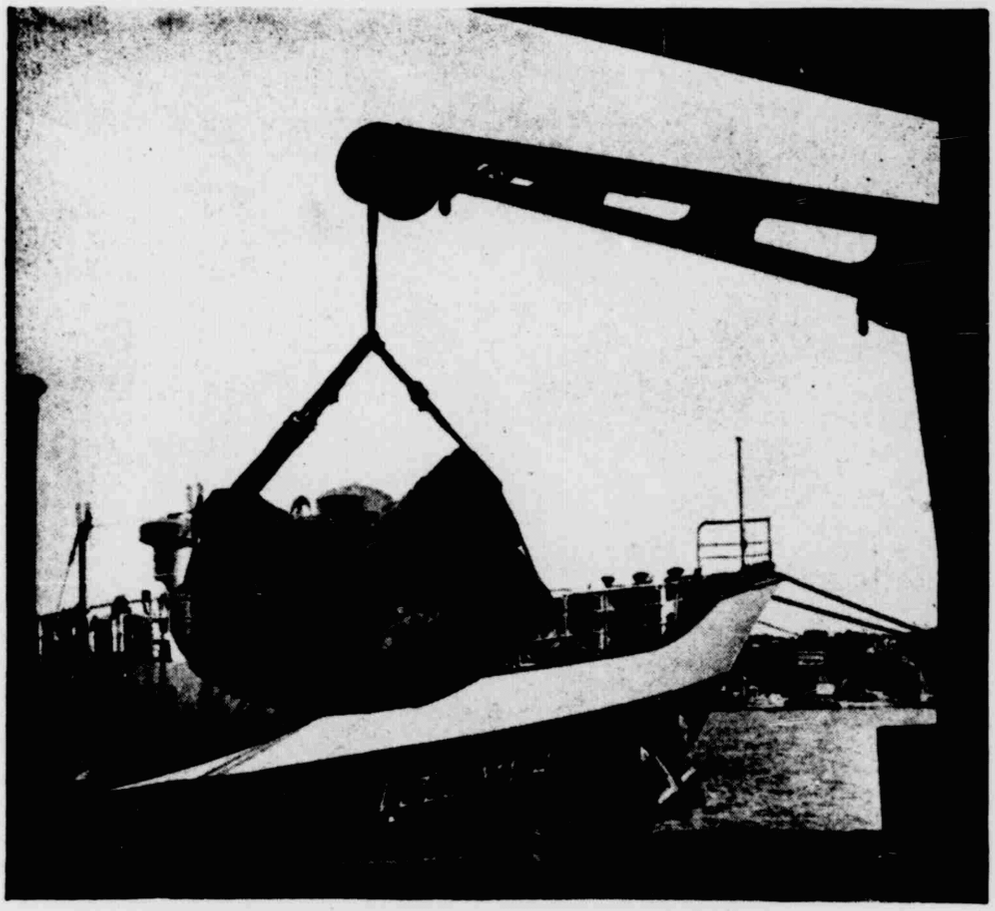
		DECEMBER 1968	
Asbestos Yarn, Slivers, etc.	Lb	214,043	$ 179,088
A-C Pipes, Tubes & Fittings	Lb	5,037,907	210,060
Asbestos-Cement Articles, Other	Lb	1,855,922	263,321
Asbestos Articles, Other		..	63,035
			$ 715,504

„ Tropag "

Hamburg —:— Ballindamm 6

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A39

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Exports From U.S.A.

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

Unmanufactured Asbestos:		NOVEMBER 1968	
Crude & Spinning Fibers	s tons	37	$ 7,814
Non-Spinning Fibers	s.tons	1,462	179,604
Waste & Refuse	s.tons	2,044	201,697
		3,543	$ 389,115

Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,224,279	$ 123,687
Other A-C Articles	Lb	1,177,799	227,770
Gaskets & Packing	Lb	376,235	483,858
Textiles & Yarns	Lb	588,407	141,356
Mfrs. other than Friction Materials			422,702
Clutch Facings & Linings for auto. use	No	159,017	145,944
Clutch Facings & Linings, Other	No	32,914	23,688
Brake Linings for automotive use	Lb	787,191	415,751
Brake Linings, Other	Lb	186,166	164,704
			$2,149,460

Exports From Canada

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

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,308	13,569	36,610
United Kingdom	..	520	8,051	4,436
South America	..	58	3,971	1,761
Central America & Mexico	..	60	2,897	634
Europe	2	930	12,602	8,249
Japan	4	358	4,555	7,422
Other Countries	..	13	8,663	4,138
	6	3,247	54,308	63,250

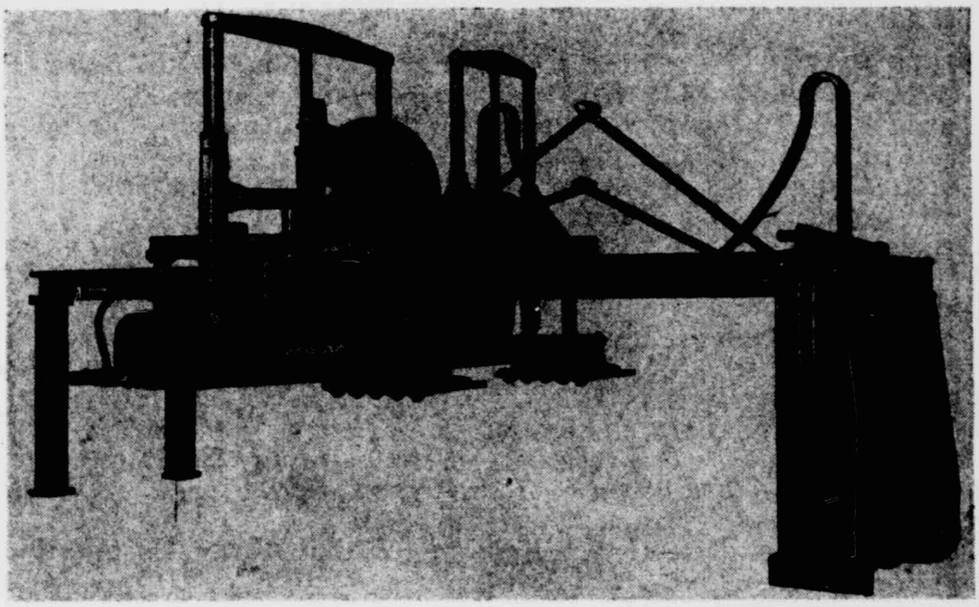
Total unmanufactured asbestos, 120,811 tons, valued at $16,063,000.

Manufactured Asbestos Goods:	
Asbestos Brake Linings & Facings	$ 57,000
Asbestos-Cement Building Materials	143,000
Asbestos Basic Products, Other	103,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

Jan van der Putten, Chairman & Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, March 15.

Colon Brown, Chairman of the Board & Chief Executive Officer, National Gypsum Company, Buffalo, New York, March 17.

Walter J. Keimig, Secretary, Scandura, Inc., Charlotte, North Carolina, March 18.

J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Company Limited, Asbestos, P.Q., Canada, March 19.

Byron C. Radaker, Vice President & General Manager, Pipe Division, Certain-teed Products Corporation, Fort Washington, Pennsylvania, March 19.

Harold F. Jones, Works Manager, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, March 21.

Philip P. Rost, Executive Vice President, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, March 23.

Edward H. Hollman, Secretary, Universal Insulation Company, Philadelphia, Pennsylvania, March 24.

O. A. Maggia, Assistant Secretary & Assistant Treasurer, GAF Corporation, New York City, March 24.

George Barge, Executive Vice President & General Manager, Atlas Asbestos Company, Montreal, P.Q., Canada, March 27.

Edward McL. Tittmann, Chairman of the Board, American Smelting and Refining Company, New York City, March 27.

Jesse T. Griffis, Manager, Marketing Development—Textiles, Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, March 28.

A. E. Alpine, Vice President—Manufacturing & Engineering, Pipe Division, Certain-teed Products Corporation, Fort Washington, Pennsylvania, March 29.

E. D. Ermenc, Director of Research, Philip Carey Corporation, Cincinnati, Ohio, March 29.

John H. McGonigle, Vice President, Universal Insulation Company, Philadelphia, Pennsylvania, March 29.

Ernest L. Ostic, Director, Technical Sales & Field Engineering, GAF Corporation, New York City, March 30.

Ross E. Sampson, Production Engineer, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, P.Q., Canada, March 31.

D. B. Tingle, Director, Vice President & General Manager of Floor, Carpet and Consumer Products Operations, Armstrong Cork Company, Lancaster, Pennsylvania, March 31.

Grant V. Wilson, Jr., Secretary, Grant Wilson, Inc., Chicago, Illinois, April 1.

Francis H. May, Jr., Vice President for Finance, Johns-Manville Corporation, New York City, April 2.

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Joseph E. Kindregan, Operations Manager, Building and Flooring Materials Divisions, Johns-Manville Corporation, New York City, April 4.

Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Company, St. Laurent, Montreal, P.Q., Canada, April 5.

A. C. Beguin, General Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, B.C., Canada, April 8.

Alfred A. Bowe, Sales Administrator, Carey-Canadian Mines, Limited, Cincinnati, Ohio, April 8.

Ernest S. Sprinkmann, Jr., Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 8.

Raymond J. Sachs, President, Porter-Hayden Company, Baltimore, Maryland, April 10.

W. E. Royds, Plant Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, B.C., Canada, April 11.

M. De Rouin, Mill Superintendent, Clinton Mine, Cassiar Asbestos Corporation Limited, Yukon Territory, Canada, April 13.

Dr. P. H. Riordon, Vice President & General Manager, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, April 13.

J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.

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

Hedman Mines Limited is making excellent progress in the construction of its new asbestos fiber processing plant at Matheson, Ontario, Canada. The plant is being built with oversize equipment and the provision for an increase in capacity, as required. It is to be phased into operation as markets develop, in conjunction with a phasing out program at the existing pilot plant. One of the reasons for phasing into operation of the production plant is that an existing *Hazemag* crusher (for secondary crushing) is installed in the pilot plant and is to be completely overhauled before taking its place in the production plant. In the meantime, the pilot plant is operating on a part-time basis. The fiber from this unit was sold during 1968 to regular customers as well as to those carrying out experimental work in manufacturing processes. In addition, the pilot plant is producing a stock of fine material for use in the production unit during the rebuilding of the Hazemag equipment.

Operations are under the direction of *E. W. Gagan,* Consulting Engineer, and *M. C. Mangan.* Plant Superintendent. President and Managing Director of Hedman Mines is *J. J. Mangan.*

1966 Annual Census of Manufactures has been published by the *Dominion Bureau of Statistics,* Ottawa, Canada. This preliminary bulletin includes summary statistics of the manufacturing industries of Canada by province and by industry group. It also covers data on the 40 leading manufacturing industries of Canada by value of shipments of goods of their own manufacture. Comparable figures for the year 1965 are also given.

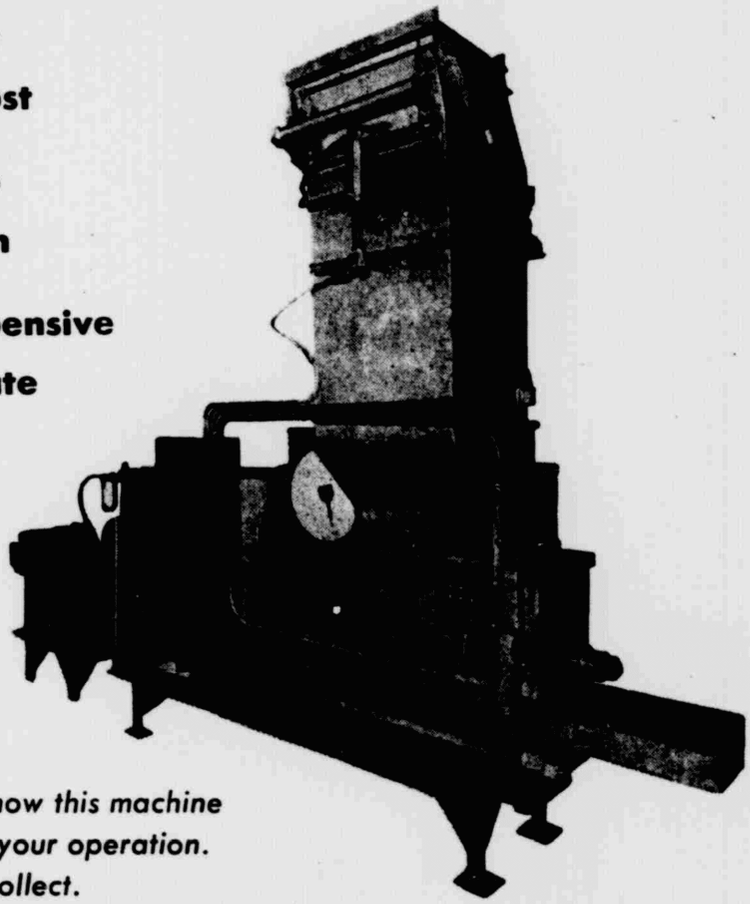
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PERSONNEL NEWS

AMERICAN SMELTING AND REFINING COMPANY

Alexander J. Gillespie, Jr., Secretary, replacing the late *Harold Howe.* Mr. Gillespie will continue as Assistant General Counsel.

BELL'S ASBESTOS AND ENGINEERING LIMITED

Keith W. Smith, Director; *Norman W. H. Wallis,* Director.

PHILIP CAREY CORPORATION

Robert E. Hake, Director of Management Information Services.

JOHNS-MANVILLE CORPORATION

Arthur C. Smith, Vice President for Corporate Growth and Development; *Fred L. Pundsack,* Vice President for Research and Development; *William L. VanDerbeck,* Vice President for Production and Engineering; *Henry N. Bates,* Vice President for Administrative Services.

JOHNS-MANVILLE CORPORATION
PIPE DIVISION

A. V. Humphrys, Jr., Manager of Market and Sales Planning, Marketing Department; *M. Harris,* Assistant General Manager; *P. E. Dix,* General Merchandising Manager; *S. J. McDuff,* General Sales Manager; *Angus E. Slee,* Professional Engineer, Denver District; *H. R. Sorensen,* District Sales Manager, Denver District; *J. R. Anklam,* Assistant District Sales Manager, San Francisco District; *H. D. Harvey,* Area Manager, Industrial, Agricultural and Turf, Western Region; *F. J. Good,* Professional Engineer, Phoenix District; *D. M. (Denis) Kelleher,* Planning and Training Manager (In Training), Northern Region.

NATIONAL GYPSUM COMPANY

Leo Lennon, President of Multicolor Company, a division of National Gypsum, succeeding *William H. King,* who will continue to function as a Consultant for an indefinite period.

RAYBESTOS-MANHATTAN, INC.

James F. MacLachlan, Corporate Comptroller; *Milton Q. Scowcroft,* Sales Manager, Asbestos Textile Division, succeeding *J. A. Brown, Jr.,* who has assumed the responsibility of Product Manager for Asbestos Textiles, U. S. Asbestos Division.

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NOTES FROM 1968 ANNUAL REPORTS

TURNER & NEWALL LIMITED

For the year ended September 30, 1968, sales to third parties were valued at £101,994,000 and income from trade investments reached £974,000. Profit for the year, after taxation, was £7,585,000, compared to £6,887,000 for the previous year.

Turners Asbestos Cement Co. Ltd., Manchester, England, had a satisfactory profit and achieved record sales of thermal and acoustical insulation materials. Production of the new 5-meter pipe machine increased the sale of sewerage and drainage pipes. Significant advances were made in the export of building products and electrical insulation materials.

Turner Brothers Asbestos Co. Ltd., Rochdale, England, had a 10% increase in sales over last year. Due to a revival of activity in the domestic automotive industry, there was an increase in sales of asbestos textiles, jointings and related products to that industry.

Ferodo Ltd., Chapel-en-le-Frith, England, reported an increase in sales and profits, and in the demand for friction materials. An increase in orders for disc brake pads placed a considerable strain on production facilities.

Atlas Asbestos Co., Montreal, Canada, maintained its level of sales despite the low demand for its products. There has been wide fluctuation in the volume of orders for major product lines, particularly in municipal buying of asbestos-cement pipes. Building materials and insulation sales suffered from the curtailment of industrial construction.

Asbestos Cement Ltd., Delhi, India, was forced, by lack of demand, to reduce production to about one-half of its capacity. Operations were further complicated by widespread labor problems which led to the factory closing for about six months.

Hindustan Ferodo Ltd., Bombay, India, with its more diversified product range serving a wider spread of industries, was less severely affected by the situation in India. A modest improvement in turnover was achieved, primarily due to the addition of asbestos millboard and "Ferobestos" materials to its line of products.

Turners Asbestos Products (Pty.) Ltd., Durban, South Africa, suffered from the continued credit squeeze but was able, by strict control of costs, to make a profit. Zambia, an important market for pressure pipes, has introduced controls which make imports from South Africa very difficult.

Ferodo (Pty.) Ltd., Durban, is in its third operational year and continues to increase its share of the local market. Asbestos millboard was recently added to its product line.

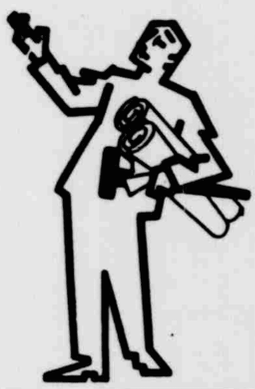
Ferodo Italiana S.p.A., Mondovi, Italy, is making steady progress toward increasing production and sales.

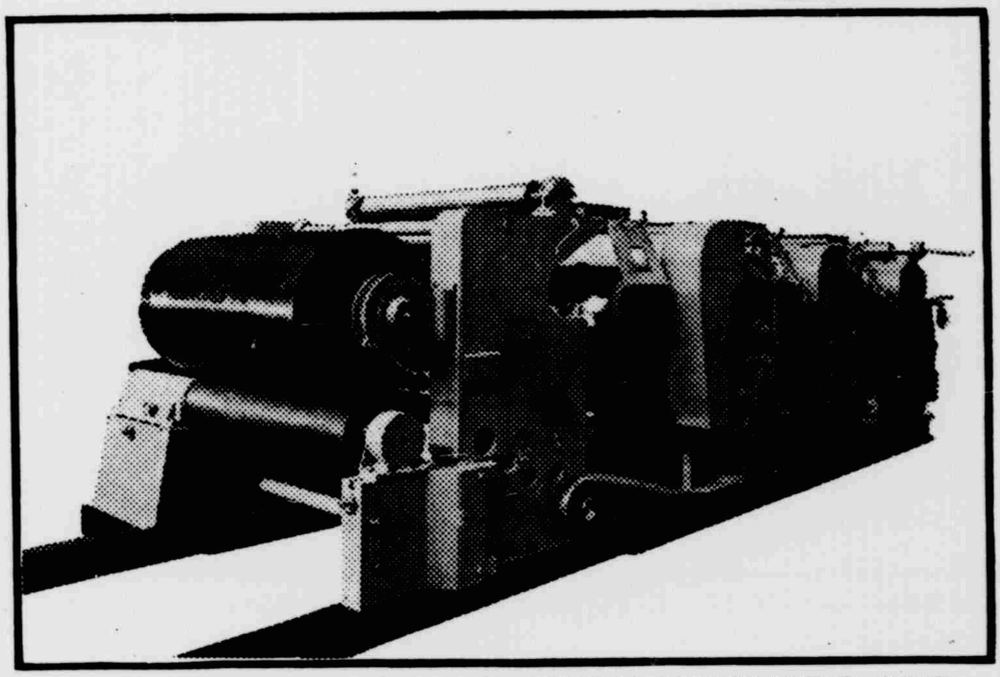
New Amianthus Mines (Pty.) Ltd., Johannesburg, controls T&N's mines in South Africa and Swaziland and has reported satisfactory operations.

Asbestos Magazine, 1969, March 1969
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ASP/MAC/19

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PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

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ASBESTOS STOCK QUOTATIONS

Close—February 28, 1969

Advocate	*$3.25	Glen-Alden	14¾
Asarco	71¾	G-Alden (pfd 3.15)	115
Asarco (wi)	35¾	G-Alden (pfd 3)	107
Armstrong Cork	72½	G-Alden (pfd 2.25)	53¼
Armst Cork (pfd 3.75)	64	Grace	40
Asbestos Corp.	*$25.00	Gulf & Western	36¾
Bendix	42⅜	G&W (pfd 1.75)	118⅝
Bendix (pfd 3)	73	G&W (pfd 3.50)	151¼
Carlisle	26⅝	G&W (pfd 3.87)	72¾
Cassiar	*$19.37	G&W (pfd 5.75)	75⅝
Certain-teed	30⅝	Johns-Manville	77⅜
C-teed (pfd .90)	30	Maremont	17¾
Conwest	*$8.75	National Gypsum	57¾
Flintkote	25½	N. Gypsum (pfd 4.50)	74⅜
F-kote (pfd-A 4.50)	87	Patino	*$30.87
F-kote (pfd-B 2.25)	40⅞	Porter (pfd 5.50)	80
F-kote (4-pfd 4)	64⅛	Raybestos-Manhattan	55⅝
GAF	25¾	Unarco	13⅝
GAF (pfd 1.20)	34½	Union Carbide	42¼
Garlock	22¼	Uniroyal	26⅝
		Uniroyal (pfd 8)	126¼

*Canadian currency
wi—when issued

(Sources: The Wall Street Journal and the New York Times)

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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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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**

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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 December 17, 1968, through January 28, 1969.

3,417,018—Method of Thickening Liquids and the Products Thereof, A. F. Burns (assigned to Johns-Manville Corporation, New York City), December 17, 1968.

3,421,975—Reversible Flocculation and Redispersion of Chrysotile Asbestos, R. G. Woolery and W. H. Dresher (assigned to Union Carbide Corporation, New York City), January 14, 1969.

3,424,307—Method for Separating Asbestos Fibers from Foreign Solids, C. H. Shiuh (assigned to Johns-Manville Corporation, New York City), January 28, 1969.

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

The Mineral Industry of Finland (10c)—During 1967, an estimated 12,000 metric tons of asbestos were produced which compares with 12,020 in 1966. Exports of crude asbestos fiber amounted to 8,528 metric tons in 1966 and the principal destinations were United States, West Germany and Sweden. Crude asbestos imports reached 6,393 metric tons, principally from U.S.S.R., Canada and the Republic of South Africa. There were 101 metric tons of asbestos-cement and other fiber-cement articles imported in 1966.

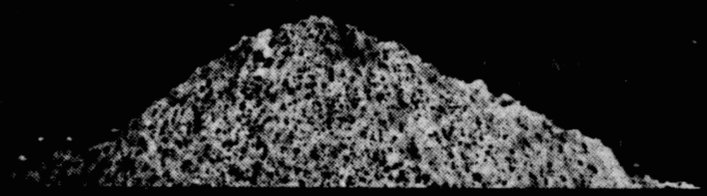
Activity in the construction industry in 1967 appeared to be less than that of 1966. Increased building construction was apparent in 1966 but slackened after the turn of the year due to the withdrawal of tax reliefs and a rise in interest rates in 1967.

The Mineral Industry of Greece (10c)—Preliminary figures for 1967 indicate a gross national product of somewhat more than $7 billion, which represents an increase of about 8% over 1966 at current prices. In general, production of minerals and metals was higher in 1967 than in the previous year.

No figures were reported for production or export of asbestos fiber or asbestos-cement products. Imports of crude asbestos reached 3,911 metric tons in 1966, principally from Canada, South Africa and U.S.S.R. Yugoslavia, Czechoslovakia and Italy were the principal sources of Greece's imports of asbestos-cement products which amounted to 3,086 metric tons in 1966.

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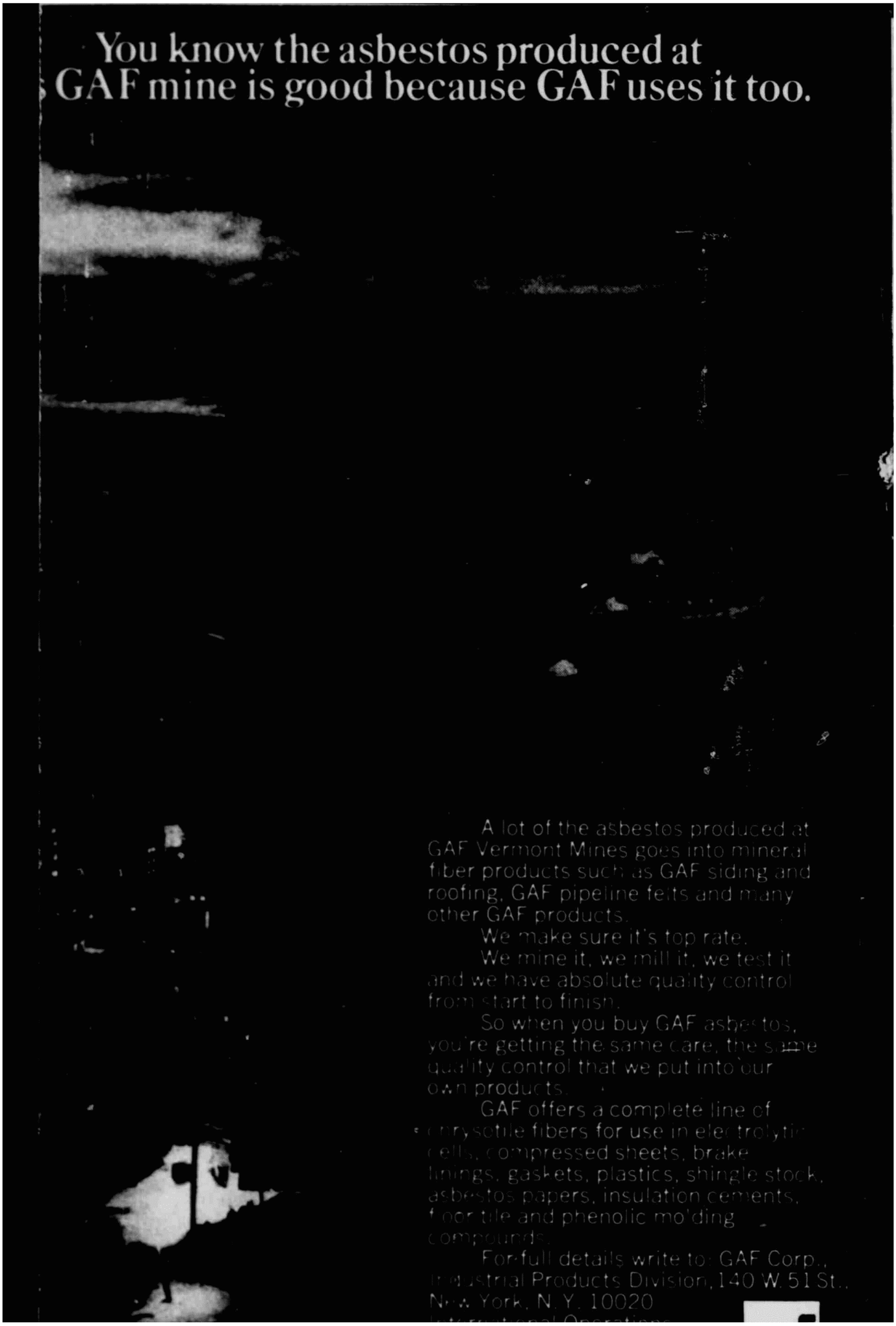
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Brooklyn .....Smith Chem. & Color Co.
Brooklyn .....Empire Ace Insul. Mfg. Co.
Buffalo .....Commercial Chemicals, Inc.
Chicago .....Chicago Firebrick Co.
Cleveland .....Donald McKay Smith, Inc.
Dallas .....Thompson-Hayward Chem. Co.
Davenport, Iowa...Thompson-Hayward Chem. Co.
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GAF offers a complete line of chrysotile fibers for use in electrolytic cells, compressed sheets, brake linings, gaskets, plastics, shingle stock, asbestos papers, insulation cements, floor tile and phenolic molding compounds.

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