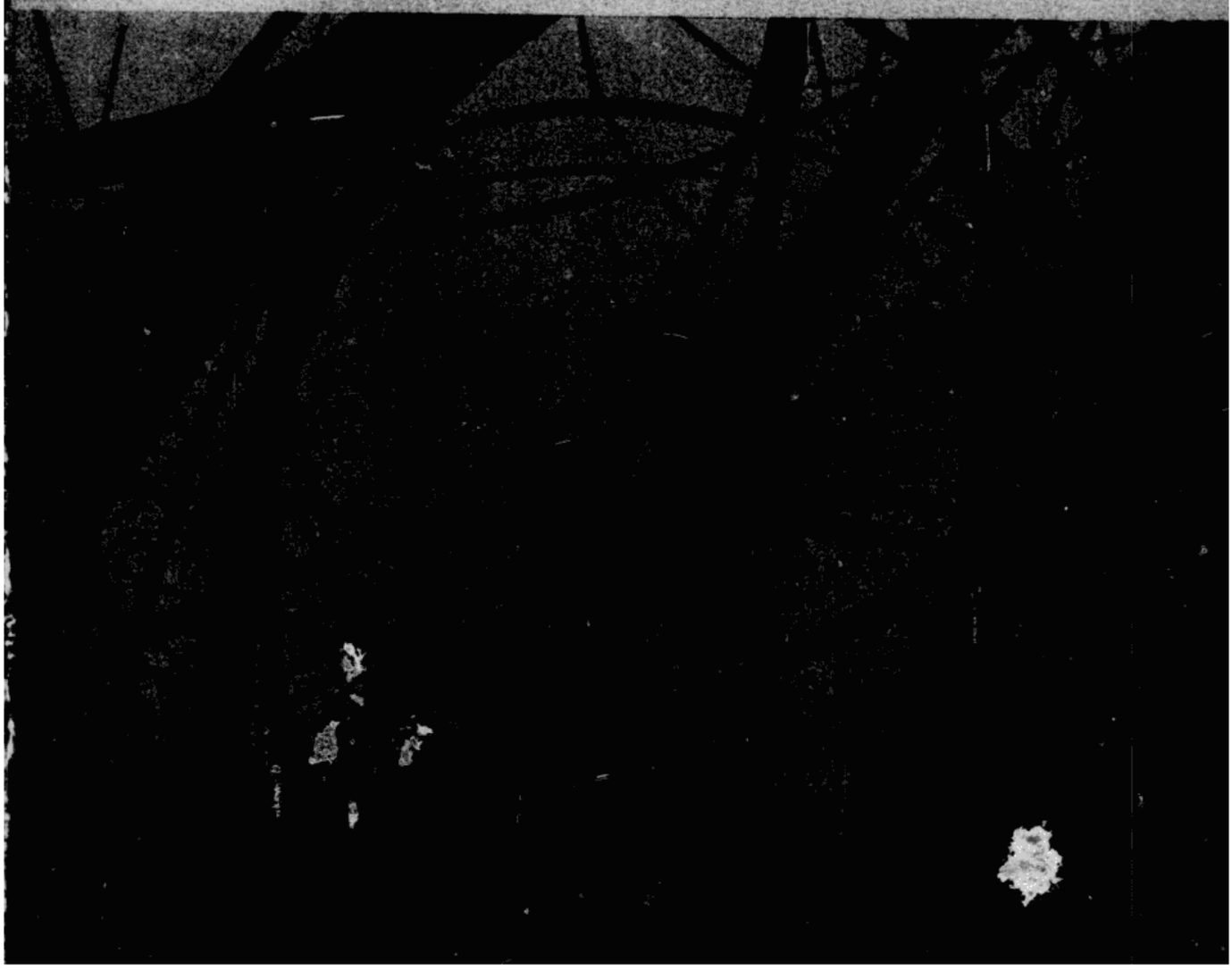
ASBESTOS

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JUNE 1969

Micrograph of Chrysotile Fiber Magnified 20,000 Times.



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SPECIALIZED PROMOTION

It is our thought that perhaps many of you would like to tell our readers of how *you* have promoted a particular asbestos product or a specific process which can be used to advantage in some phase of the Asbestos Industry, and how, in turn, these promotional endeavors increased demand and improved the market for a given product, service or process.

We hope you will feel free to contribute your material, in about 500 words or so, and thus keep the Industry abreast of what is being done, and how effectively. We hope to make this a regular or periodic feature in ASBESTOS and earnestly solicit your interest and support.

To begin the series, the following is a description of *National Gypsum Company's* special promotional campaign to help home builders sell houses which are sided with the company's new prefinished siding, *"Woodrock."*

NATIONAL GYPSUM PROMOTES "WOODROCK"

Woodrock, National Gypsum's new prefinished siding which is basically an asbestos-cement product with cellulose fibers added, has been receiving the hi-fi promotional treatment this year.

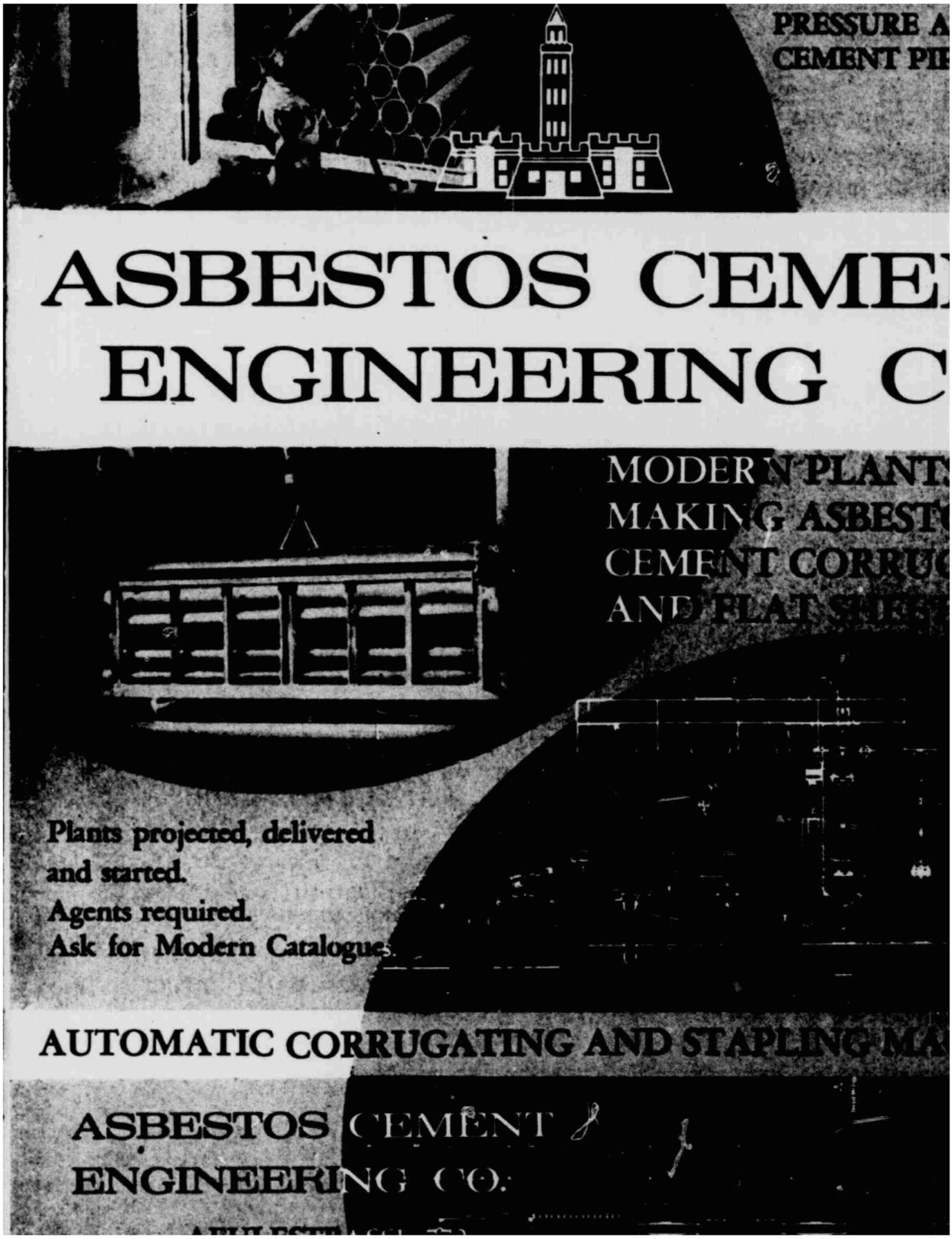
Hi-fi is the term recently coined to describe the high fidelity, four-color printing of full-page advertisements in newspapers. National Gypsum will use the technique to promote the sale of specific builders' homes which are sided with *Woodrock* fire-resistant clapboards and panels which are available in both preprimed and prefinished forms.

Builders in and around several major cities, selected on the basis of market research studies, who participate in the promotion, will have their houses prominently and colorfully displayed in the "residential section" of local Sunday newspapers this spring. More advertisements will appear during the fall but by then more newspapers and builders will be involved, and the number will continue to grow until a substantial number of major markets are involved.

Although *Woodrock* is the only clapboard that permits concealed nailing and can materially reduce painting and other maintenance costs, the advertisements, titled "New Look in Living," will play up the builder, not the product.

How prominently a housing development appears in an

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advertisement depends on how much *Woodrock* goes into it. A builder can receive the deluxe promotion kit which, along with streamers, badges, and radio and TV scripts, contains a "talking wall" that can be attached to the side of a model home with an invitation to press a button—whereupon a specially-cut, personalized "hi-fi" tape will start playing the *Woodrock* theme song and jingle, welcome the prospective home buyer to Rolling Hills Estate, or whatever the name of the project might be, and extol the various features of the home.

This kind of showmanship cannot but help to sell more *Woodrock*, another in the growing list of asbestos-based building materials.

JOSEPH M. CAMERON has been appointed Chief of the newly formed Office of Measurement Services in the Institute for Basic Standards at the *U.S. National Bureau of Standards*, after serving as Acting Chief from September 1968. An NBS staff member since April 1947, Mr. Cameron is a recipient of the U.S. Department of Commerce "Gold Medal for Exceptional Services."

THE COVER

The front cover of this issue shows an interesting electron micrograph of chrysotile fiber at a magnification of 20,000 times. A similar micrograph at a magnification of 100,000 times will appear in a future issue of **ASBESTOS** with an article entitled *Research-Based Development of Asbestos Products*, by R. A. Wells, Research Director with Turner Brothers Asbestos Company Limited, Rochdale, England.

NEXT MONTH —

SPECIAL ANNIVERSARY ISSUE!

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The Certain-teed House

The "Certain-teed House" is one of ten experimental model homes at "Austin Oaks—68," a two-acre tract of federal surplus land in East Austin, Texas, being used in a study project on low-income housing supervised by the University of Texas in cooperation with the U.S. Department of Housing and Urban Development.

The complete, one-story, all-electric home can be built for $5000 to $7500 (plus land), depending upon optional extras such as appliances, patio, special interior finish and roof design. It features plastic piping, central warm air heating and air conditioning, fiber glass insulation and air ducts, a fully equipped kitchen, vinyl-asbestos tile floors, prefabricated wood roof trusses and asphalt shingle roof.

The construction system employed is a new concept in masonry construction which was created by the Development Group of Certain-teed Products Corporation. It consists of architectural "CTX" (extruded asbestos-cement) components which fit together like a giant Erector Set resulting in a flexible, modular system which significantly reduces construction costs. The system is adaptable to a wide variety of shelter sizes and styles. No special tools are required for assembly and since the heaviest component of The Certain-teed House weighs only 45 pounds, heavy construction equipment is unnecessary. The manufacturing process employed in the production of CTX maintains very close dimensional tolerances in individual components, thus field erection is easier, quicker, and the finished structure is neat in appearance.

The house is constructed on a four-inch, monolithic, reinforced concrete slab foundation, can be completed by only three men in fifteen working days, or less, and no specialized skills are required to erect it.

The basic wall structure is bonded by a high strength, weather-proof adhesive which is "beaded" into the post grooves. This waterproofs the joints between the posts and the panels, prevents the panels from slipping in the post grooves, and thus develops the necessary racking strength to withstand hurricane-force winds.

Standard windows, doors and frames were supplied by Certain-teed's Wm. Cameron Division, Waco, Texas.

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Sir William C. Fenton To Retire

Sir William C. Fenton, Chairman of BBA Group Limited, is to retire as Chairman of the Group on June 30, 1969. He joined the company in September 1907 when it was mainly concerned with the manufacture of belting.

The company entered the Asbestos Industry in 1920 when, as "Scandinavia" Belting Limited, it purchased The British Asbestos Company which was producing asbestos yarn and other asbestos goods. In 1925 the manufacture of asbestos yarn was transferred to the factory at Cleckheaton, Yorkshire. At the same time, British Asbestos was liquidated and the name of "Scandinavia" Belting Limited was changed to British Belting & Asbestos Limited. The company traded under the name until January 1967 when a holding and management company—BBA Group Limited—was formed and the asbestos interests were transferred to Scandura Limited, a subsidiary. Sir William was Joint Managing Director from October 1925 to January 1937 and Managing Director from January 1937 to December 1959. He has been Chairman since March 1954.

On January 1, 1954, he received a Knighthood for his public services.

One of Sir William's major interests has been the improvement of working conditions in the Asbestos Industry in an attempt to eliminate health hazards. In 1930 he was a member of a committee formed by the Home Office to investigate methods of suppressing asbestos dust, which led to the Government's Asbestos Industry Regulations published in 1931. In 1957 Sir William, together with the Chairmen of Turner Brothers Asbestos Company Limited and The Cape Asbestos Company Limited, formed the Asbestosis Research Council with the main objective of fostering research into the causation and prevention of asbestosis and any other diseases possibly associated with exposure to asbestos. Sir William was a member of the Council from its formation in 1957 until 1966 and served as Chairman from 1957 to 1959 and again from 1963 to 1965.

In November 1964 Sir William was involved in a motor accident in which he suffered severe injuries. He has since been able to walk only very short distances with the aid of crutches. His activities have, therefore, been severely restricted in the past five years.

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The **R. C. M. Company** - *known all over the world as a Firm highly specialized in the manufacture of equipments for the production of asbestos-cement pipes and sheets - make available their own experience for the solution of the following problems:*

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Cable Address: Erciem Torino - Phone: 233823/4/5 - 284837 - Telex: 21307

PACIFIC ASBESTOS EXPLORATION

Pacific Asbestos Limited, Toronto, Canada, has completed a two-year exploration program on its asbestos property in Barraba, New South Wales, Australia.

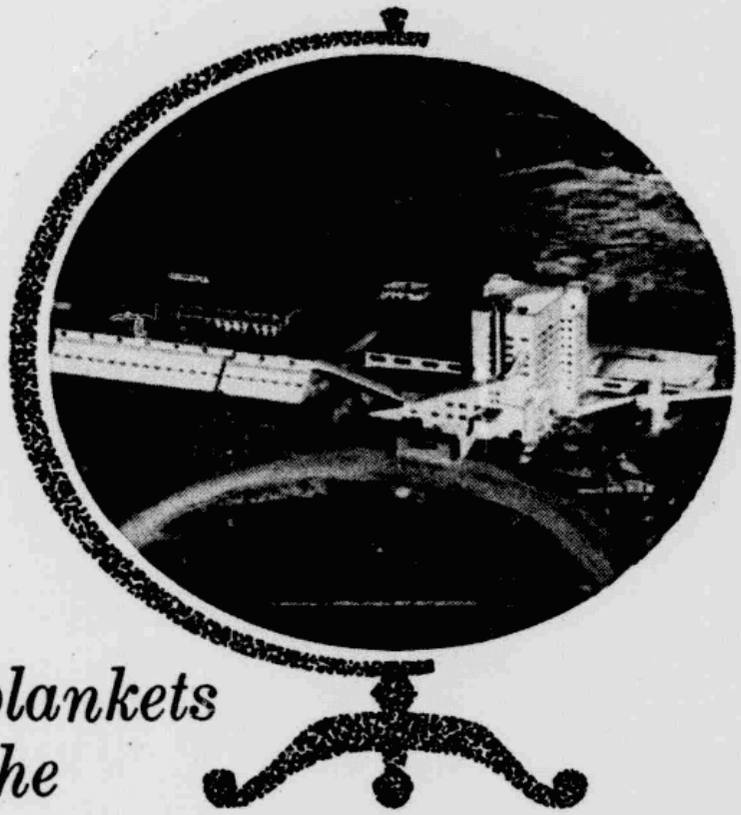
Watts, Griffis and McOuat Limited, geologists and engineers, prepared a report as of May 15 reviewing the work undertaken and advising that development of the orebody is economically feasible. The report refers to a study dated July, 1968, which showed that of a potential of 90 million tons, over 22 million tons of asbestos ore had been drill indicated. By November, although the 458 tests of cores from the total of 100 drill holes were not complete, all of the 15,000 feet of confirmatory drilling had been done and in the geologists' opinion an economic asbestos orebody had been drill-proven. A final feasibility study is well underway and barring unforeseen delays in core testing in Quebec City, the study will be submitted to Pacific Asbestos by this coming September.

Based on findings to date, the company intends to acquire mining and milling facilities necessary to bring the property into production by May of 1971. The cost is estimated at $12,500,000 and Burns Bros. and Denton Limited, financial agents for Pacific Asbestos, will assist management in arranging senior financing for the plant. Such arrangements are expected to be concluded by the end of January, 1970.

THERMOID PRICE INCREASE—On June 1, 1969, the Thermoid Division of H. K. Porter Company, Inc. effected a 7½% increase on the prices of its asbestos textiles. The materials concerned are asbestos cloth, carded fiber, tape, yarns, wick and rope. According to L. E. Moody, Group General Manager-Asbestos, the increase was necessary due to rising costs of raw material and labor. The Thermoid Division produces asbestos textiles at its plants in Bennettsville, South Carolina; Charlotte and Davidson, North Carolina; and St. Louis, Missouri.

H. K. PORTER COMPANY, INC.'s Board of Directors declared a quarterly cash dividend of 40¢ per share on the common stock. The dividend is payable June 30 to stockholders of record June 10.

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Carey-Canadian Mines, Ltd., one of the world's largest producers of asbestos fibre, can serve your needs around the world. Overseas sales agents are listed below. Additional information may be obtained by writing to Carey-Canadian Mines, Ltd., P. O. Box 15070, Lockland, Cincinnati, Ohio 45215.

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London, England	Central Asbestos Company, Ltd.
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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
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R. D. Bradford—Retired

R. D. Bradford has retired as President of *American Smelting and Refining Company*. He joined Asarco in 1926 as a metallurgist and after working in various positions in the western and southwestern United States, as well as in the New York office, he was appointed Manager of the company's plant in East Helena, Montana, in 1940. He became Manager of the Southwestern Department in 1942, General Manager of the Western Department in 1951, and a Vice President of the company in 1952. In 1955, Mr. Bradford became President of Lake Asbestos of Quebec Limited, a wholly owned subsidiary of American Smelting. He became a Director of Asarco in 1957, Executive Vice President in 1959 and was elected President in 1963. Mr. Bradford is a member of the Mining and Metallurgical Society of AIME, the Canadian Institute of Mining and Metallurgy, and the Scientific Research Society.

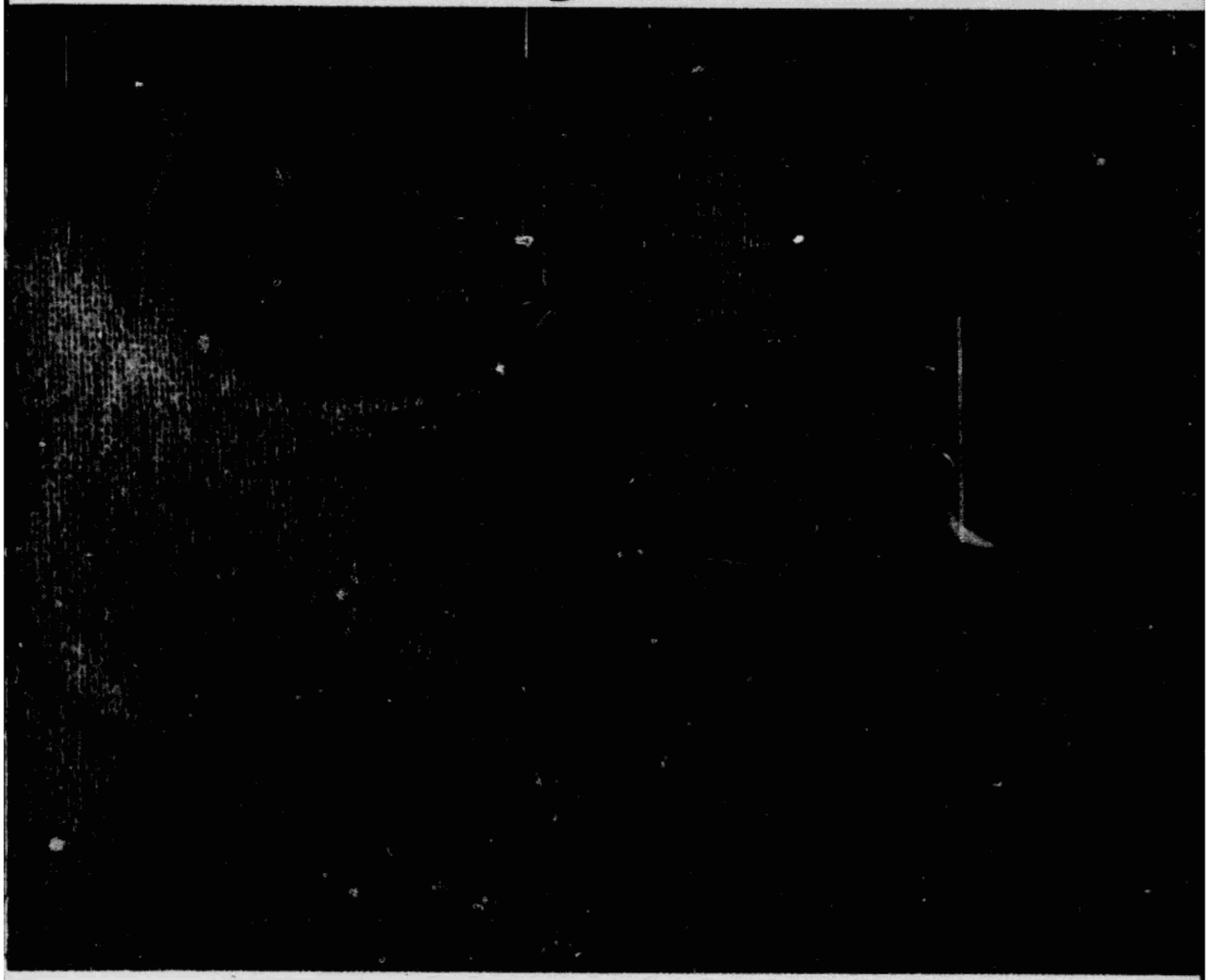
ARMSTRONG ARMASPRAY 16—High thermal efficiency at reduced installation costs in the insulation of stacks, tanks, lines and equipment at Interstate Paper Corporation's new plant at Riceboro, Georgia, was achieved through the use of this new high-temperature spray-on insulation. Because Armaspray 16 could be sprayed on, irregular contours and hard-to-reach places were quickly insulated. Armaspray 16 is a product of *Armstrong Cork Company* and the insulation contract at Interstate's new plant was awarded to Armstrong Contracting and Supply Corporation.

The new insulation is a blend of asbestos fibers, mineral wool fibers and inorganic binders. It is processed, at the job site, from fifty-pound bales of compressed dry material through a special Armaspray Spraying Machine. It is dampened in mid-air by atomized water as it leaves the spray gun. The semi-plastic material is then pressed or tamped with wooden or metal tools to produce a smooth surface and a monolithic coating. Armaspray 16 provides fire protection, noise reduction and corrosion prevention and is designed for use either indoors or outdoors from ambient temperatures to 1600F (Hot Face).

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RUSSIAN PAPERS—The following Russian translations were listed in the May-June 1969 issue of the *Asbestos Bulletin:* No. 192—Occurrences of Talc-Asbestos in the Onot Talc Deposits, No. 193—Genetic and Industrial Types of Asbestos Deposits in Kazakhstan, No. 194—Sayan Deposit of Chrysotile Asbestos, No. 195—Chrysotile Asbestos in the South of Krasnoyarsk Province and Tuva Aut.S.S.R., No. 196—The Cause of Variations in the Strength of Chrysotile Asbestos Fibers, No. 197—Brittle Varieties of Asbestos, No. 198—Spectrophotometric Investigation on Synthetic Fibrous Fluoroamphiboles, No. 200—Crystallization of Fibrous Amphibole from Serpentine Under Hydrothermal Conditions, No. 201—Synthesis of Fluoroasbestos from Armenian Serpentinites, and No. 202—Synthetic Asbestos and its Properties.

There is also a paper available entitled "Asbestos Deposits at Campestre, Alagoas State, Brazil" which is listing No. 208.

In Memoriam

A. DEVEREUX CHESTERTON, Chairman of the Board of A. W. Chesterton Company, Everett, Massachusetts, passed away May 15, 1969 at age 67.

He had been President until 1967 following his father who had established the packing business in 1884. Mr. Chesterton was well known throughout New England and was highly respected as a business executive. He was a member of the New England Regional Expansion Council of the U.S. Department of Commerce and was a Director of the International Center of New England. Mr. Chesterton was presented the U.S. Navy E Award in 1964. He served in the U.S. Coast Guard during World War II. He had a life-long interest in sailing and was the originator of the well-known Marblehead to Halifax sailing race.

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CHARTER CONSOLIDATED LIMITED has tendered an offer to the Ordinary Shareholders of THE CAPE ASBESTOS COMPANY LIMITED to acquire their holdings to the extent of an aggregate of 6,222,716 Ordinary Shares. Charter also proposed to make a cash offer to acquire the issued Preference Shares of Cape. Charter presently holds 25.3% of the issued Ordinary Shares of Cape and the offer, if successful, would increase its holdings to approximately 62½%. If the proposed offer is successful, it is the present intention of Charter that the name, identity and goodwill of Cape will be maintained. The strengthening in this way of the ties between the two companies would provide a channel for the development, through Cape, of Charter's industrial interests and facilitate expansion of activities in both groups. The Directors of Cape Asbestos are of the unanimous opinion that the success of the Charter offer is in the best interests of Cape, its shareholders and all its employees and that the terms offered are fair and reasonable.

THESAURUS OF ENGINEERING AND SCIENTIFIC TERMS is designed to lay the groundwork for compatible information systems in the technical disciplines. It provides the basis for effective retrieval by any engineer or scientist who is generally familiar with the subject area in which he is searching and supplies the bridge between the technical language used in published technical documents and the language of the seeker for information. The book contains over 18,000 descriptors for use in indexing and retrieval, and some 5,000 entries referring to one or more of the descriptors as preferred indexing terms. All areas of science and technology are covered including the engineering disciplines, physics, chemistry, mathematics, the life sciences including medicine and biology, the social sciences, economics and military science.

The 696-page book is available from the *Engineers Joint Council*, 345 East 47th Street, New York, New York 10017 at a cost of $25.00 for a hard cover copy or $19.50 for the flexible cover edition.

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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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RAYBESTOS-MANHATTAN, INC.'s acquisition of *Milford Rivet and Machine Company*, Milford, Connecticut, has been approved by the stockholders of both companies and consummation is dependent upon a favorable tax ruling. Milford Rivet will operate as a subsidiary of R/M and retain its present management and employees.

GAF CORPORATION received the *Silver Anvil Award* from the *Public Relations Society of America* in recognition of "outstanding professional public relations achievement." This award was presented for the public relations program GAF undertook last year to publicize the change of its corporate name from General Aniline & Film Corporation to GAF Corporation and, at the same time, to familiarize the public with its diversification, growth and future. This same public relations program was selected for inclusion in the 1969 international edition of "Outstanding Case Histories of the Year," a manual published annually by "Public Relations News."

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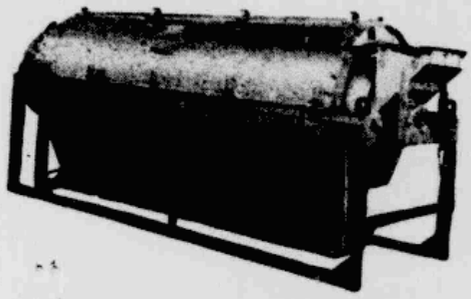
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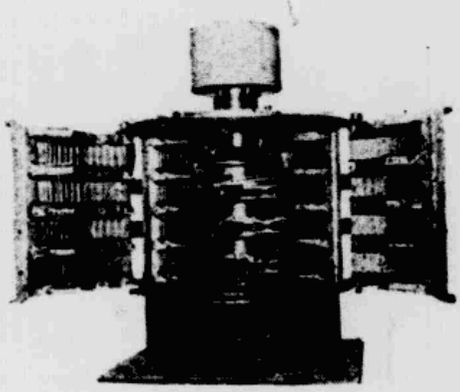
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- Crushers
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- Lowerators
- Grinding Mills
- Fibre Precompressors
- Gluer-Sealers
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- Bag Flattener & Loaders
- Laboratory Equipment
- Drive Equipment
- Air Separators
- Motorized Floor Sweepers
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- Rotary Aspirators
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- Screens
- Pressure Packers
- Screw Graders
- Fibre Samplers
- Automatic Motor Bases



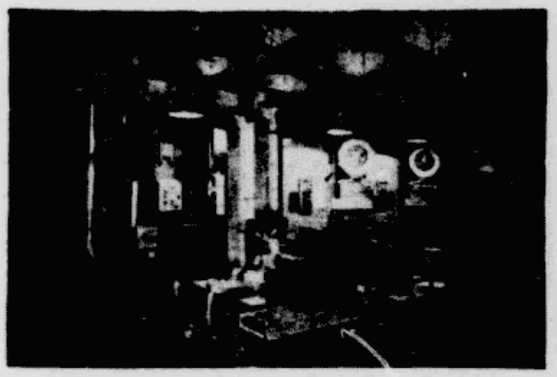
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MARKET CONDITIONS

General Business.

In the face of myriad complexities, both national and international, general business continues good. The most outstanding news was that orders for machine tools in April were the highest in 27 years. While many of these orders were placed in an attempt to anticipate the possible elimination of the 7% investment tax credit, and May bookings are at a lower level, some industry sources indicate no fear of a great slump even if the tax credit is cancelled. This strong showing helps to confirm the projected rise of 14% in capital expenditures for 1969. While manufacturing plants are operating at only about 84% of potential capacity, it is obvious that labor shortages and stiff competition are combining to force modernization of plants and equipment at a more rapid rate than normal. Automation is becoming a "way of life" for any producer who wishes to survive and turn a profit.

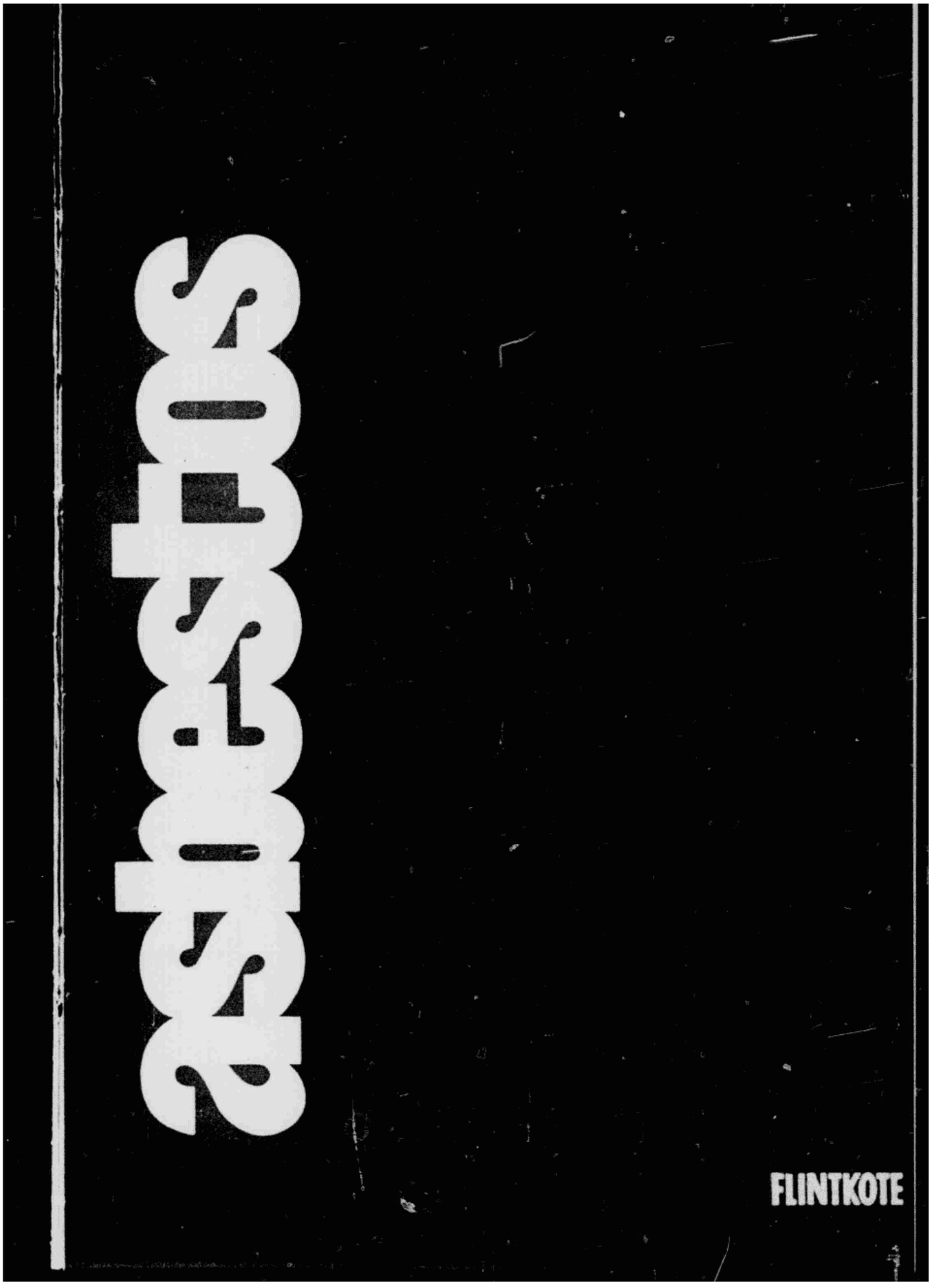
The international monetary situation continues critical. West Germany is still holding to its position that it will not revalue the mark and, until after the French election on June 1, France's ultimate position regarding devaluation of the franc will remain a question.

The Paris peace talks, following presentation of a ten-point paper by the Communist side and President Nixon's proposals, seem, at last, to be moving off dead-center. While rapid progress is most unlikely, it is encouraging to note the first signs of some progress since the start of the talks.

Tensions continue in the Middle East and it can only be hoped that nothing will happen to trigger a full-scale war in that area.

THE SOUTH AFRICAN MOTOR INDUSTRY has been published by *The Standard Bank of South Africa Limited*, Johannesburg. According to this booklet, investment in the motor industry in South Africa exceeds R150-million, two-thirds of which has been made in the 1960's.

Asbestos Magazine, 1969, June 1969
ACL Doc 12626 · Page 24 of 61
Published by AsbestosClaims.Law
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asbestos
FLINTKOTE

Building

From: McGraw-Hill Information Systems Company

APRIL 1969 contracts for future construction showed a modest recovery from the sharp decline in March. More significant, however, is the fact that the level of new construction work reported during the past two months has dropped off from the record rate of projects initiated during the winter months. Some of this easing — particularly in credit-sensitive categories such as one-family housing and municipal construction — suggests that anti-inflationary measures may finally be taking hold. Construction contracts in April totaled $5,895,065,000, 21% higher than the comparable year-ago figure.

Nonresidential—Large gains in industrial and commercial construction put this building group solidly ahead. Contracts totaled $2,136,437,000, a 40% gain over last April.

Residential contracts totaled $2,546,014,000, a 10% increase over last year. A large annual gain in multi-family construction predominated this increase and a larger volume of nonhousekeeping structures was recorded.

Nonbuilding—At $1,212,614,000, contracts for nonbuilding construction projects were 16% above the year-ago total, with roadbuilding supplying most of the gain. Contracting for electric generating facilities and other utility projects continued to lag far behind last April's exceptionally high rate.

DODGE BUILDING COST SURVEY—In one of the sharpest increases in a decade, the nation's construction costs soared an average of 4% during the year ending April 30, 1969. Both labor rates and materials prices contributed to the cost increase which, in some areas, amounted to 13%. An average 7.2% rise in hourly wage rates for building trades craftsmen was the primary catalyst in the climb in costs. With some exceptions, average building materials prices rose only 1.8%. This semi-annual Survey is based on cost data supplied by building trades unions, contractors and materials suppliers in 188 cities in the continental United States and 33 cities in Canada.

Asbestos Magazine, 1969, June 1969
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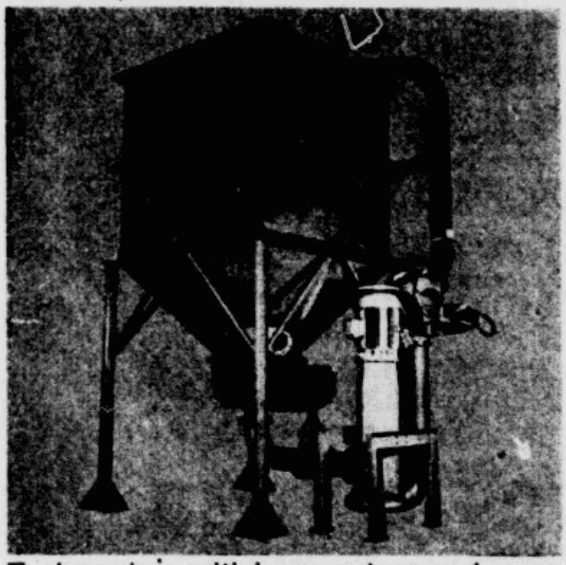
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Automobile Sales

MARCH 1969 motor vehicle factory sales from plants in the *United States* totaled 932,282 (passenger cars—763,272, trucks and buses—169,010). The total for March 1968 was 967,968. The total for the FIRST QUARTER of 1969 was 2,773,491 compared with 2,752,999 for the same period in 1967.

Motor vehicle factory sales from plants in *Canada* totaled 118,088 for March 1969 compared to 74,288 in March 1968. The total for the first three months of 1969 was 327,425 against 236,221 for the same period in 1968.

NBS COMPLETES CONSTRUCTION PROGRAM —Three special purpose laboratories at the Gaithersburg, Maryland, site of the National Bureau of Standards have recently been completed and occupied: the Aggregate Processing Materials Building, the Hazards Laboratory, and the Industrial Laboratory. The Fluid Mechanics Building is now under construction and when completed will mark the end of the Bureau's construction program begun in 1961.

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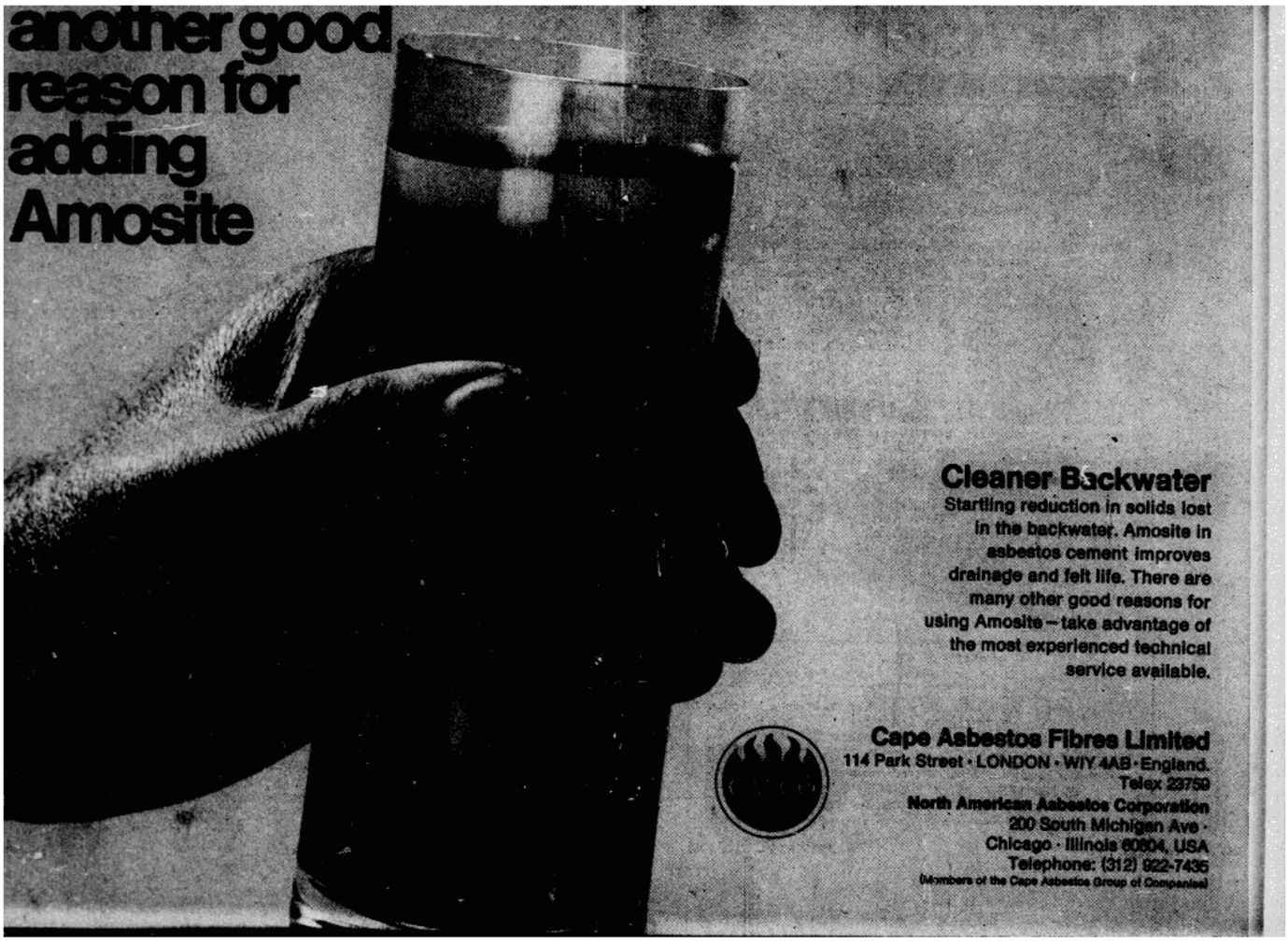
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PRODUCTION - IMPORTS - EXPORTS

Canada—According to the Dominion Bureau of Statistics, Canadian producers' shipments of asbestos during *February 1969* totaled 79,179 short tons (67,373 tons from Quebec and 11,806 tons from Newfoundland, Ontario and British Columbia). The total for *February 1968* was 99,399 tons.

West Germany manufactured DM325 million (U.S. $81.25 million) worth of asbestos products in the *Year 1968,* an increase of 24% over the previous year. Part of the increase was due to wage increases and to the higher costs of raw material. The industry consists of 37 manufacturers with a labor force of 9,000. Some 60% of its production is consumed by the automobile industry. West Germany imported DM30 million (U.S. $7.5 million) worth of asbestos products in 1968 and exported asbestos products valued at approximately DM70 million (U.S. $17.5 million).

Asbestos in 1968 (annual preliminary Mineral Industry Survey published by the U.S. Bureau of Mines)—Total production (Chrysotile and Anthophyllite) in 1968 was approximately 121,000 short tons, down 2% from 1967. Production is derived from four States; over half from California, followed by Vermont as second in importance. Apparent consumption totalled over 800,000 tons. The consuming industries in the United States are heavily dependent on imports from Canada for their Chrysotile requirements and on imports from South Africa for their Amosite and Crocidolite needs. It is estimated that of total U.S. imports for consumption, 90% (676,000 short tons) were obtained from Canada and 4% (39,000 tons) were obtained from South Africa.

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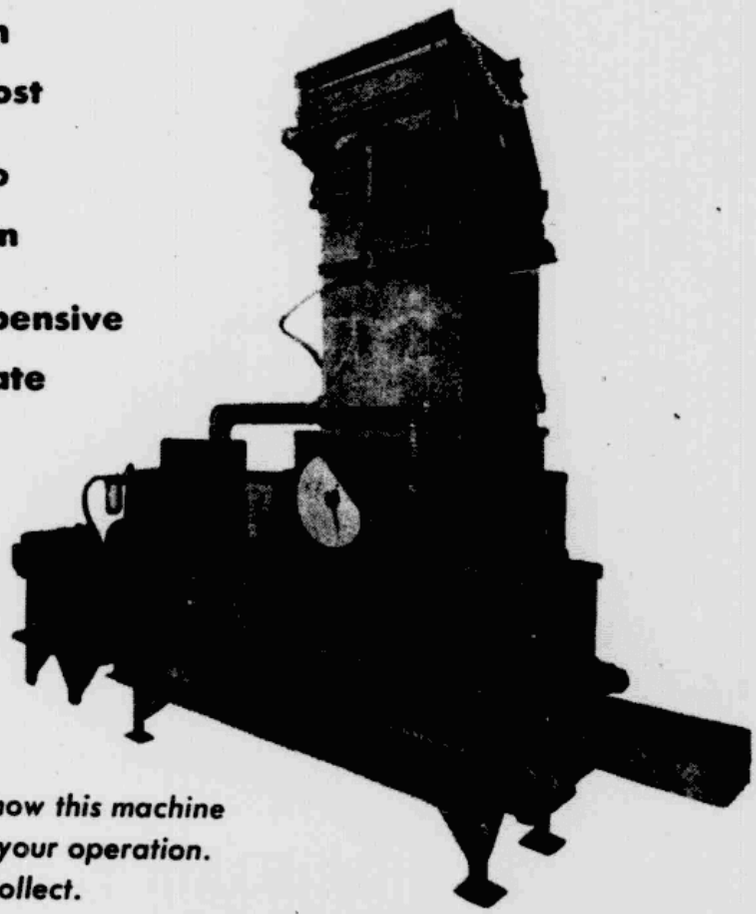
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Mineral Exploration has been issued by the *Commonwealth Bureau of Census and Statistics*, Canberra, Australia, as Statistical Bulletin No. 3, 1967. It contains statistics on exploration for minerals in Australia during 1967. Its scope is limited to private exploration on leases held for production and exploration purposes, and all Government exploration.

Physical Properties and Technical Applications of Asbestos Minerals is a very current and informative article by M. S. Badollet that appeared in the April 1969 issue of the CIM Bulletin. The study of the physical properties of asbestos minerals requires a careful isolation of the fiber from the wall rock and, at a later stage, a comparison of these physical properties is made with those of fibers that have passed through the milling and beneficiation processes. The effects of mineral impurities, loss of fiber length and the forming of extreme fines often show up in the production and/or formation of various asbestos products and in the filtration of blood plasma and wines. Numerous test methods have been developed and special treatments of asbestos fibers have been used to improve their physical and chemical properties and to eliminate impurities. Biological studies on finely ground asbestos, when dispersed in 0.9% sodium chloride solution and then sterilized and injected into hamsters, show that by reducing the dosage, tissue damage can be largely avoided.

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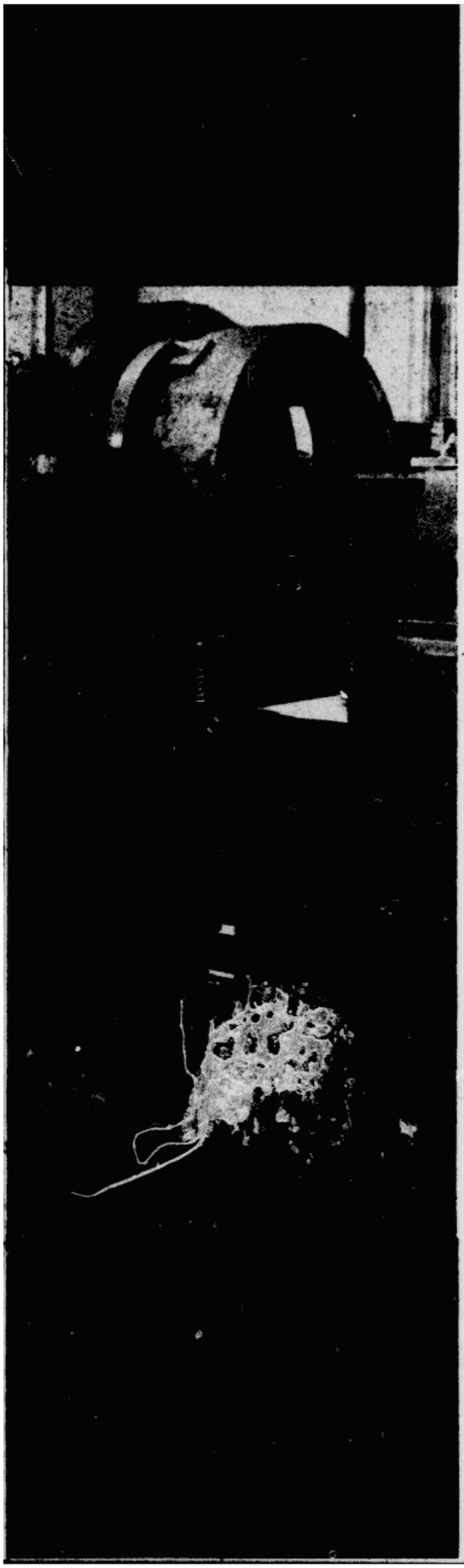
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Imports Into U.S.A.

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

Unmanufactured Asbestos:	JAN. 1969	FEB. 1969
Amosite, South Africa	100	1,640
Crocidolite (Blue), South Africa	320	247
Chrysotile, Crude, Canada	7	..
Finland	..	165
France	..	30
Mozambique	30	..
South Africa	176	..
Chrysotile, Spinning Fibers, Canada	1,639	982
Chrysotile, Other, Canada	55,328	48,968
Other Crudes & Fibers, Canada	1,174	1,316
Finland	275	..
Malta	1	..
	59,050	53,348

January imports of unmanufactured asbestos were valued at $6,784,086

February imports of unmanufactured asbestos were valued at $5,381,626

Manufactured Asbestos Goods:		JANUARY 1969	
Asbestos Yarn, Slivers, etc.	Lb.	132,670	$ 80,540
A-C Pipes, Tubes & Fittings	Lb.	9,701,374	405,715
Asbestos-Cement Articles, Other	Lb.	645,426	79,131
Asbestos Articles, Other		..	118,132
			$683,518

		FEBRUARY 1969	
Asbestos Yarn, Slivers, etc.	Lb.	108,627	$ 55,071
A-C Pipes, Tubes & Fittings	Lb.	4,406,707	183,381
Asbestos-Cement Articles, Other	Lb.	2,383,525	213,467
Asbestos Articles, Other		..	106,809
			$558,728

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20 tons of Indian low iron white Chrysotile asbestos available for sale immediately—direct from mine owners. Fibers are semi-opened, mixed grades and free of grit. Write for samples and quotations to:

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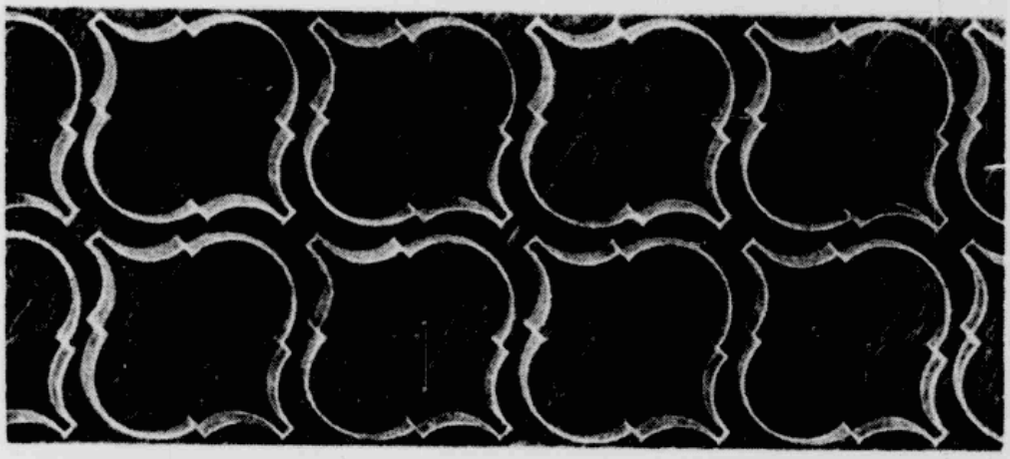
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Exports From U.S.A.

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

Unmanufactured Asbestos:		FEBRUARY 1969		
Crude & Spinning Fibers	s. tons	42	$	15,958
Non-Spinning Fibers	s. tons	415		69,511
Waste & Refuse	s. tons	643		82,071
		1,100	$	167,540
Manufactured Asbestos Goods:				
A-C Shingles & Clapboard	Lb.	963,479	$	97,386
Other Asbestos-Cement Articles	Lb.	743,280		96,810
Gaskets & Packing	Lb.	287,583		369,865
Textiles & Yarns	Lb.	515,058		150,345
Mfrs. other than Friction Materials		..		279,776
Clutch Facings & Linings for auto use	No	77,145		59,534
Clutch Facings & Linings, Other	No	44,655		26,099
Brake Linings for auto use	Lb.	503,976		314,505
Brake Linings, Other	Lb.	166,908		128,842
				$1,523,162

Exports From Canada

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

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	527	2,366	26
Western Europe	..	896	15,329	16,483
Middle East	..	..	1,341	875
Africa	..	..	125	9
Asia	1	90	2,465	1,168
Oceania	..	..	1,756	250
So. & Cen. America & Antilles	20	20	5,537	2,366
United States	..	1,168	13,820	35,749
	21	2,701	42,739	56,926

The total amount of unmanufactured asbestos exported in *February 1969* was 102,387 short tons, valued at $12,760,000.

Manufactured Asbestos Goods:		
Asbestos Brake Linings & Facings	$	55,000
Asbestos-Cement Building Materials		140,000
Asbestos Basic Products, Other		74,000
	$	269,000

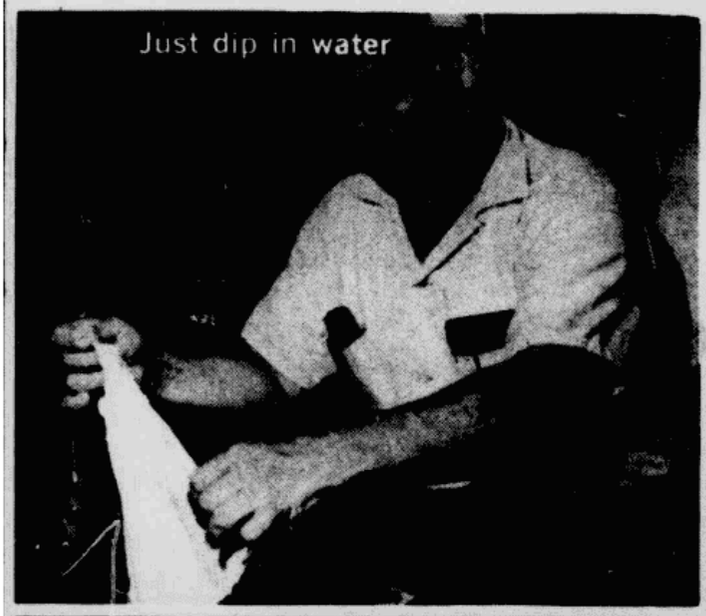
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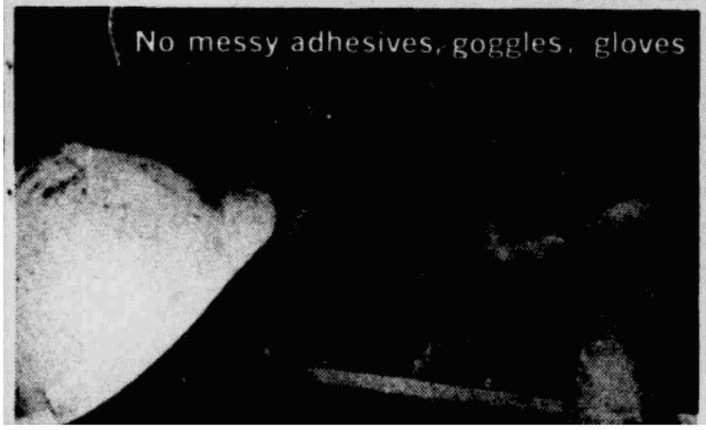
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U.S. Documents—The following reports are available at $3.00 per paper copy and 65c per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Virginia 22151:

PB-180-522-T—U.S.S.R. Literature on Air Pollution and Related Occupational Diseases, Volume 17: The Biological Effects and Hygienic Importance of Atmospheric Pollutants, by B. S. Levine for the Public Health Service;

PB-180 958—Research and Development on Roads and Road Transport, prepared by the International Road Federation for the Bureau of Public Roads;

PB-182 081—UCLA Motor Vehicle Safety Project (Final Report), prepared by the University of California for the National Highway Safety Bureau;

PB-182 349—A Study of the Relationship Between Air Temperatures and Depth of Frost Penetration as Related to Pavement Performance of West Virginia's Highways, by L. K. Moulton and E. C. Dubbe of West Virginia University for the Bureau of Public Roads;

PB-182 364—An Analysis of Twelve Experimental Housing Projects, by J. F. Bernheisel et al of Mitre Corporation for Housing & Urban Development.

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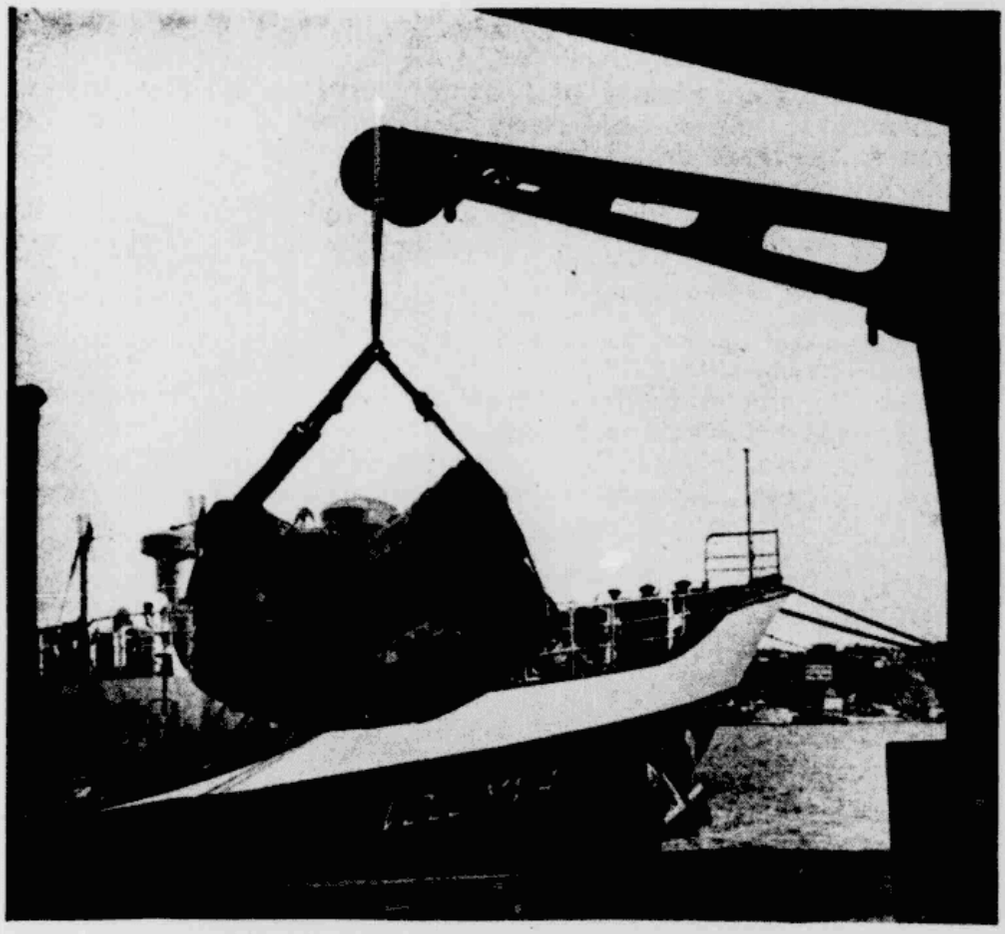
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The Mineral Industry of Colombia (10¢)—The total volume of Colombia's crude mineral production declined almost 2% in 1967 compared with a 4% drop in the preceding year. The value of mineral commodity exports during 1966 was more than 13% less than in 1965. Asbestos was not reported as having been produced or exported, but imports of crude asbestos from Canada and South Africa amounted to 16,534 metric tons in 1966.

The Mineral Industry of New Zealand (10¢)—The value of New Zealand's mineral production increased 6% in 1966 to $69.52 million, but was followed by a decrease of 15% in 1967 to $58.89 million. Mineral commodity exports increased in 1966, reaching a value about twice that attained in 1965, but mineral commodity imports continued to increase more rapidly than exports, resulting in a growing trade deficit in these commodities. No production of asbestos has been recorded since the figure of 398 metric tons in 1963. For 1966, asbestos was not listed on the export table but 7,856 metric tons of crude asbestos were imported (principally from Canada and South Africa).

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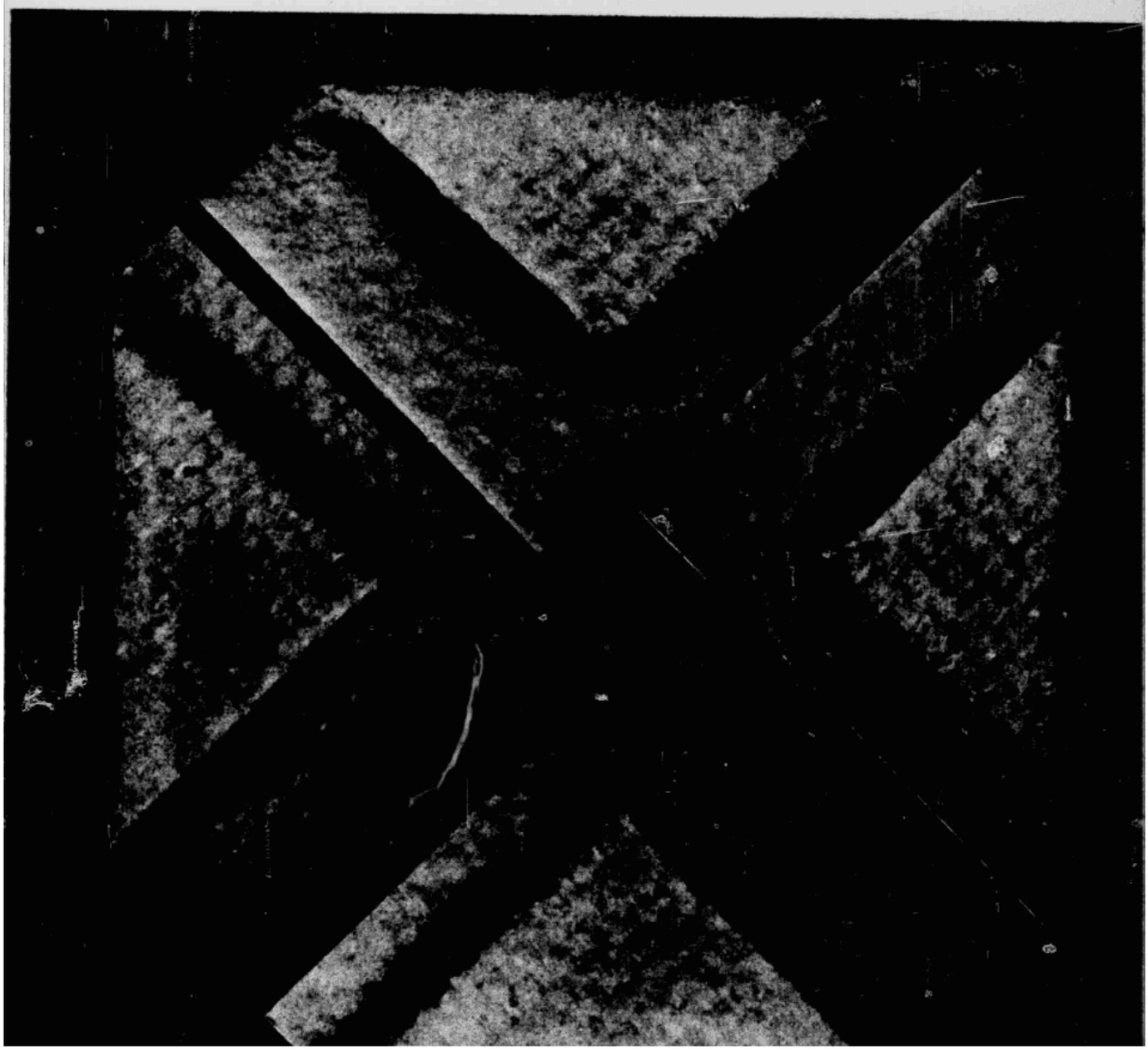
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INDUSTRY NEWS

HAPPY BIRTHDAY

William S. Hough, Secretary-Treasurer, Mechanical Packing Association, Brielle, New Jersey, June 14.
John B. Jobe, Vice President for Industrial Divisions, Johns-Manville Corporation, New York City, June 16.
Gordon D. Parker, Chairman & Managing Director, British Uralite Limited, Higham, Rochester, Kent, England, June 17.
William S. English, Vice President & Assistant General Manager, Sturtevant Mill Company, Dorchester, Massachusetts, June 19.
Erwin C. Gutzwiller, Corporate Director of Industrial Engineering, GAF Corporation, New York City, June 20.
Ladd L. Wilson, President, Protective Papers, Inc., Hollister, California, June 20.
Lee R. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, June 22.
J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.
C. Branton Wheatley, President and Treasurer, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, June 22.
Malcolm Meyer, President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.
F. Pearson, Deputy Chairman & Managing Director, BBA Group Limited, Cleckheaton, Yorkshire, England, June 26.
Dr. Gordon Taylor, Executive Director, The Flintkote Company, Limited, London, England, June 26.
Edward F. Briggs, General Marketing Manager—Aerospace, Industrial Insulations Division, Johns-Manville Corporation, New York City, June 27.
J. W. McCarvill, Vice President—Administration, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, June 27.
Julien O. Heppes, Vice President, Floor Products Division, GAF Corporation, New York City, June 28.
G. F. A. Brink, Manager, Product Research & Development Department, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, July 2.
I. C. Campbell, Vice President & Secretary-Treasurer, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, July 3.
Arthur I. Rank, Jr., President, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.
Donald H. Lyons, Director of Purchasing, Johns-Manville Corporation, New York City, July 5.
Howard E. Walker, Director of Research, The Flintkote Company, White Plains, New York, July 5.
S. David Skinner, Vice President-Engineering, National Gypsum Company, Buffalo, New York, July 6.
C. L. Hoshaw, Manager of Insulation, Technical Service and Construction, Philip Carey Corporation, Cincinnati, Ohio, July 7.
Gordon Read, Vice President & Director for Far Eastern Operations,

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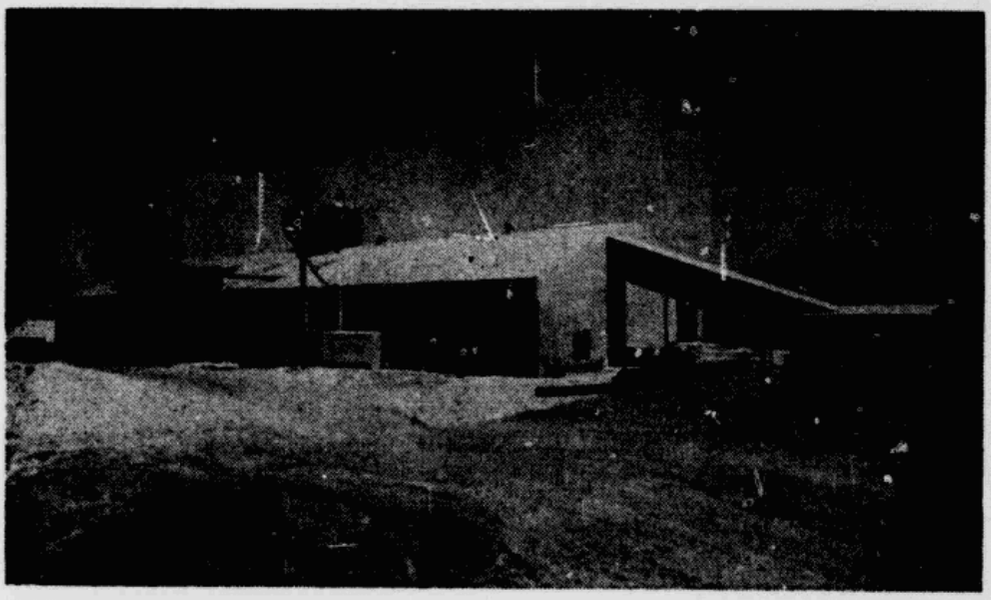
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Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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Johns-Manville Corporation, New York City, July 7.
Donald L. Andrew, Assistant Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, July 11.
Jack R. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, July 11.
August D. Becht, Area Supervisor of Industrial Relations, GAF Corporation, New York City, July 12.
John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.
Carlo M. Weber, Marketing Manager of asbestos-cement products, Philip Carey Corporation, Cincinnati, Ohio, July 14.

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

Bell Asbestos Mines is supplying India with large quantities of asbestos fiber as a result of two contracts issued recently by the Canadian International Development Agency, as part of Canada's program for international development aid.

British Standard 3260: PVC (Vinyl) Asbestos Floor Tiles has been revised. In this latest edition, the 9" x 9" tile of the 1960 publication has been retained and two metric sizes with a corresponding range of metric thicknesses have been added. SI units are also included in the Standard.



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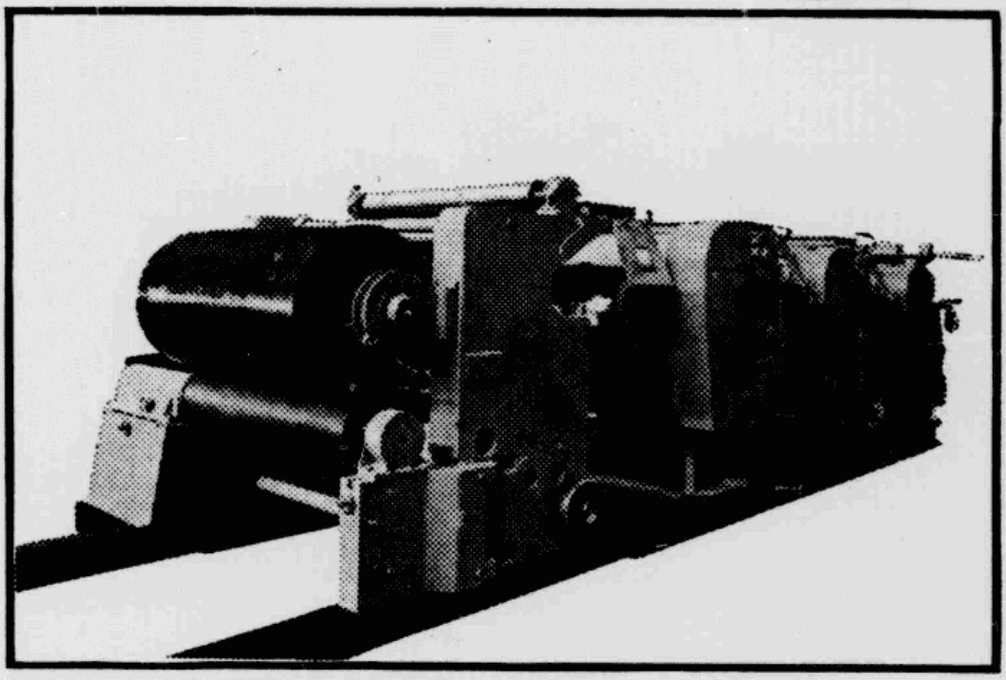
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CEMENT PRODUCTS LTD.

PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

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NOTES FROM 1968 ANNUAL REPORTS

ADVOCATE MINES LIMITED

Net income was $1,257,000 or 8c per common share after providing for preference dividends earned in 1968. This compares with net income of $1,866,000 and earnings per common share of 18¢ in 1967. Although net income was lower in 1968, cash flow available for distribution to shareholders increased to $2,167,000 or 23c per common share, after providing for the annual preference dividend of $806,000. Property, plant and equipment, at cost, were valued at $24,066,000, and fiber inventory, at net realizable value, was valued at $1,266,000.

Of concern was the increase in operation costs from $7,548,000 to $8,227,000. This was due to the increase in tons mined and a general rise in labor and material costs which were offset in part by a 2% price increase which became effective April 1, 1968. A 5% fiber price increase was made effective on January 1, 1969. Therefore, under normal operating conditions, net income for 1969 should return to the 1967 level.

These consolidated financial figures combine the accounts of the company with those of its wholly owned subsidiary, Advocate Concessions Exploration Company Limited.

During the year, 2,040,649 tons of ore, 8,470,264 tons of waste and overburden, and 212,028 tons of road rock were mined. The waste to ore ratio was 4.15:1. The mill produced 62,407 tons of A-25 fiber, valued at $10,947,000 or $175.41 per ton. To produce this fiber, 1,953,250 tons of ore were delivered to the crushing and drying plant, giving a recovery of 3.27%. Shipments were 69,184 tons, 9% higher than in 1967. At December 31, 1968, reserves were 63,345,369 tons.

The shallow diamond drilling program was completed, all other development drilling was done by the rotary drills ahead of mining faces, and the intensive program of geological mapping and sampling continued. The experimental double trommel line was installed and placed in service in October. It is operating at original design tonnages and further improvements will be achieved as experience is obtained.

H. K. PORTER COMPANY, INC.

1968 net sales were $279,121,958 compared to $280,310,952 in 1967. Net earnings amounted to $3,830,210, including an extraordinary income credit, net of taxes, of $949,001. Net earnings in 1967 were $4,274,325. During 1968, capital expenditures for plant and equipment totaled $6,857,723, net property, plant and equipment were valued at $56,230,808, and net increase in working capital was $2,797,510.

The most significant addition to Porter's operations was the acquisition of Banks Miller Supply Company, Huntington, West Virginia, an industrial distributor whose facilities augment the sales function of several company divisions. Small acquisitions were also made

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of Pacific Asbestos Corporation amounting to $3,770,866, for the sum of $2,284,046. The Cleveland Forge Works of the company's Fabricated Metals Division, and the Canadian subsidiary, Federal Wire & Cable Company, Limited, were sold.

The asbestos textile products produced by the Thermoid Division include cloth, carded fiber, lap, rope, roving, tape, wick and yarn. During 1968, asbestos cloths for the laundry industry were improved and a new product for paper dryer felt weaving was introduced. Rewettable asbestos lagging cloth, marketed in late 1967, continued an excellent sales showing. Plant improvements scheduled for this year include new treating equipment, increased yarn and weaving capacity, and research and development refinements.

Major product lines of the Thermoid Division's Textile and Friction Group are power transmission belts, automotive friction products, polyvinyl chloride (PVC) conveyor belts, and flexible ducting for industrial applications and for specialized requirements such as in aircraft. Several new products in the friction line will be placed on the market in 1969 -- among them disc brake pads and brake blocks.

Porter's international operations include H. K. Porter Australia Pty. Limited, H. K. Porter do Brazil (Alcace) S.A., H. K. Porter Company (Canada) Limited, Porter-Europe, and H. K. Porter Company de Mexico, S.A.

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PERSONNEL NEWS

AMERICAN SMELTING AND REFINING COMPANY

Charles F. Barber has been elected President of Asarco, replacing *Robert D. Bradford*. *Ralph L. Hennebach*, Executive Vice President, has been given added responsibilities and will be in charge of domestic and foreign mining, smelting and secondary metals, engineering and research operations.

ASBESTOS CORPORATION LIMITED

J. A. Sargent was elected Chairman, succeeding *A. L. Penhale*, who is now Vice-Chairman. *Frank Nugent* and *A. A. Hendrix*, Vice Presidents of General Dynamics Corporation, were elected to the Board of Directors.

CAPE ASBESTOS GROUP

S. Spiro and *F. P. Parkes* have been appointed Directors of The Cape Asbestos Company Limited. *W. R. Doughty* is the new Managing Director of Cape Universal Building Products Limited, following the appointment of *G. A. Higham* as Chairman.

CERTAIN-TEED PRODUCTS CORPORATION

Charles L. Ladner has been appointed Controller of the Pipe Division, replacing *Paul B. Gilpin* who has joined the Certain-teed corporate staff.

JOHNS-MANVILLE CORPORATION

Dr. W. Richard Goodwin has been named to the newly-created position of Vice President for Corporate Planning. His responsibilities include design and development of planning systems to relate technological and social change to J-M's growth objectives. He will also coordinate efforts to anticipate and identify significant opportunities for new businesses or new markets.

NATIONAL GYPSUM COMPANY

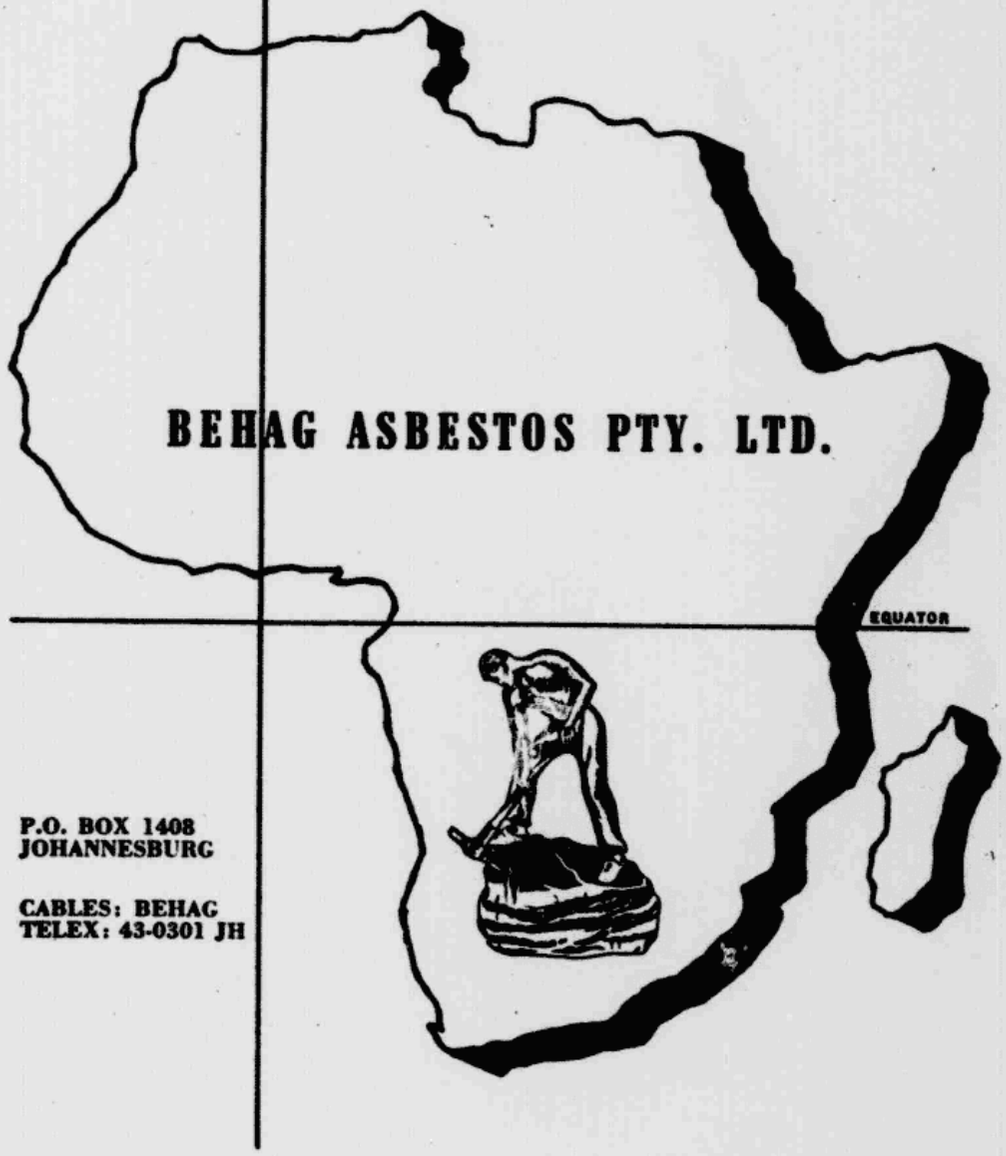
Albert H. Fay has been promoted to the newly-created position of Vice President-Research and Marketing, Building Products Division. This new assignment evidences National Gypsum's involvement and concern for meeting the nation's housing goals, particularly for low-income families.

STURTEVANT MILL COMPANY

John E. Burke is the new President and General Manager, replacing *George P. Towle* who is retiring after more than 52 years of service with the firm. *William S. English* has been appointed Vice

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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 April 15 through May 6, 1969.

3,440,072—Cartridge Wad and Process for the Manufacture Thereof, B. K. Daubenspeck & E. A. Rickey (assigned to Remington Arms Company, Bridgeport, Connecticut), April 22, 1969.

3,441,472—Method of Forming Glass-Asbestos Water-Laid Sheet, A. M. Foster (assigned to Hollingsworth & Vose Company, East Walpole, Massachusetts), April 29, 1969.

3,441,474—Paper for Graphic Arts Consisting of Asbestos Fibers, Acrylic Resin and Size, M. C. Hutchins & R. G. Quinn (assigned to Johns-Manville Corporation, New York City), April 29, 1969.

3,442,671—Coating Composition and Process, G. F. Rolland and J. J. Seipel (assigned to Benjamin Foster Company, Philadelphia, Pennsylvania), May 6, 1969.

ASBESTOS STOCK QUOTATIONS

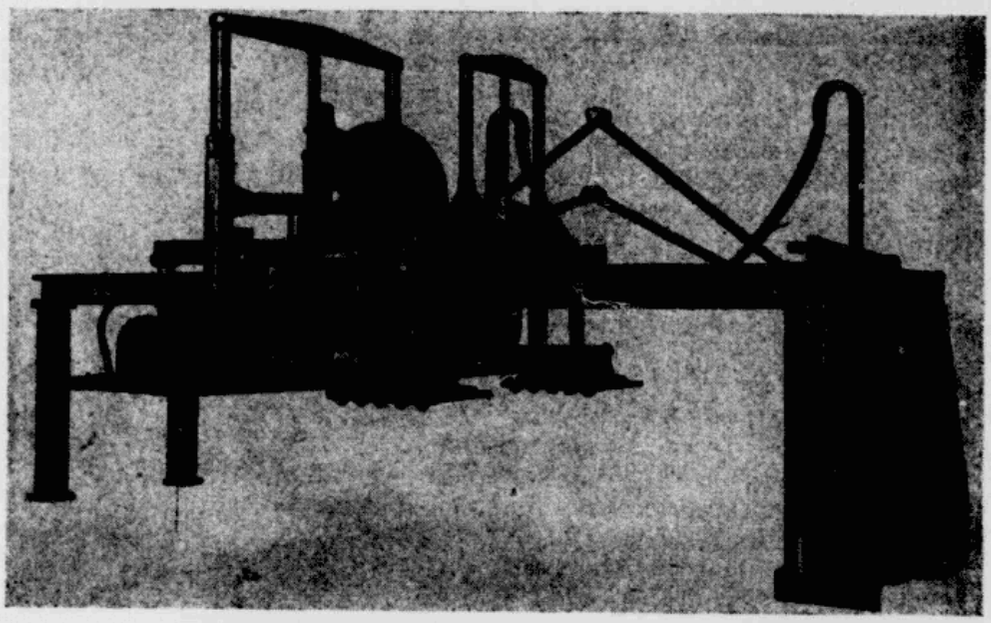
Close—May 23, 1969

Abitibi Asbestos	*$8.00	Garlock	23½
Advocate	*$3.00	Glen-Alden	13½
Asarco	37⅞	G-Alden (pfd 3)	94½
Armstrong Cork	81⅝	Grace	35½
Armstrong Cork (wi)	41⅛	Gulf & Western	31⅛
Asbestos Corp.	*23⅛	G&W (pfd 3.50)	127½
Bendix	46⅝	G&W (pfd 3.87)	62
Carlisle	24¾	Johns-Manville	39¼
Cassiar Asbestos	*$18.75	Maremont	16⅜
Certain-teed	35⅛	National Gypsum	31⅞
C-teed (pfd .90)	34¾	Patino	*$33.75
Conwest	*11.00	Porter (pfd 5.50)	76¾
Flintkote	31⅝	Raybestos-Manhattan	54⅛
F-kote (pfd -A 4.50)	91	Unarco	12½
GAF	27	Union Carbide	44¼
GAF (pfd 1.20)	35⅛	Uniroyal	29¼
		Uniroyal (pfd 8)	121½

*Canadian currency
**Canadian currency—as of May 29, 1969
wi—when issued
(Source: The Wall Street Journal)

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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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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.

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100 MILLIMETERS

INSTRUCTIONS Resolution is expressed in terms of the lines per millimeter recorded by a particular film under specified conditions. Numerals in this chart indicate the number of lines per millimeter in adjacent "L-shaped" groupings.

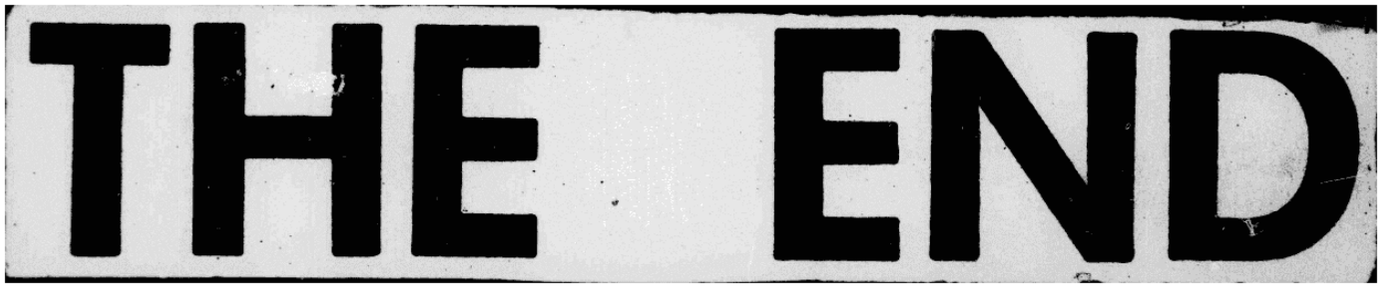
In microfilming it is necessary to determine the reduction ratio and multiply by the number adjacent to the group in which it can be decerned that the lines are either horizontal or vertical. As an aid in determining the reduction ratio the line below is 100 millimeters in length. Measuring this line in the film image and dividing the length into 100 gives the reduction ratio. Example: the line is 10 millimeters long in the film image and 100/10 = 10.

Examine the "L-shaped" line groupings in the film with a forty power microscope and note the number adjacent to the group in which it is possible to decern that the lines are either horizontal or vertical. It is only necessary to determine that there are lines in both directions regardless of the number of lines. Under these conditions it is considered that the group in question is resolved. Example: the lines in 7.9 group are discernible horizontally and vertically while the lines in the 8.9 group are not discernible. Reduction ratio is 10 and 7.9 × 10 = 79 lines per millimeter recorded satisfactorily. 8.9 × 10 = 89 lines per millimeter which are not recorded satisfactorily. Under the particular conditions maximum resolution is between 79 and 89 lines per millimeter.

In order to check the camera for vibration several exposures should be made with the chart in the center of the field in one orientation and then turn it through an angle of 45° and make several more exposures. If the lines in both directions at both orientations are equally resolved the camera is free from vibrations.

Resolution as measured on the film, is a test of the entire photographic system, including lens, exposure, processing, and other factors. It is recommended the resolution charts be placed on every roll of microfilm, at the beginning of the roll or preferably at both ends of the roll. This practice will provide a convenient means of continually checking both the operation and performance of the system which can be referred to at any time.

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