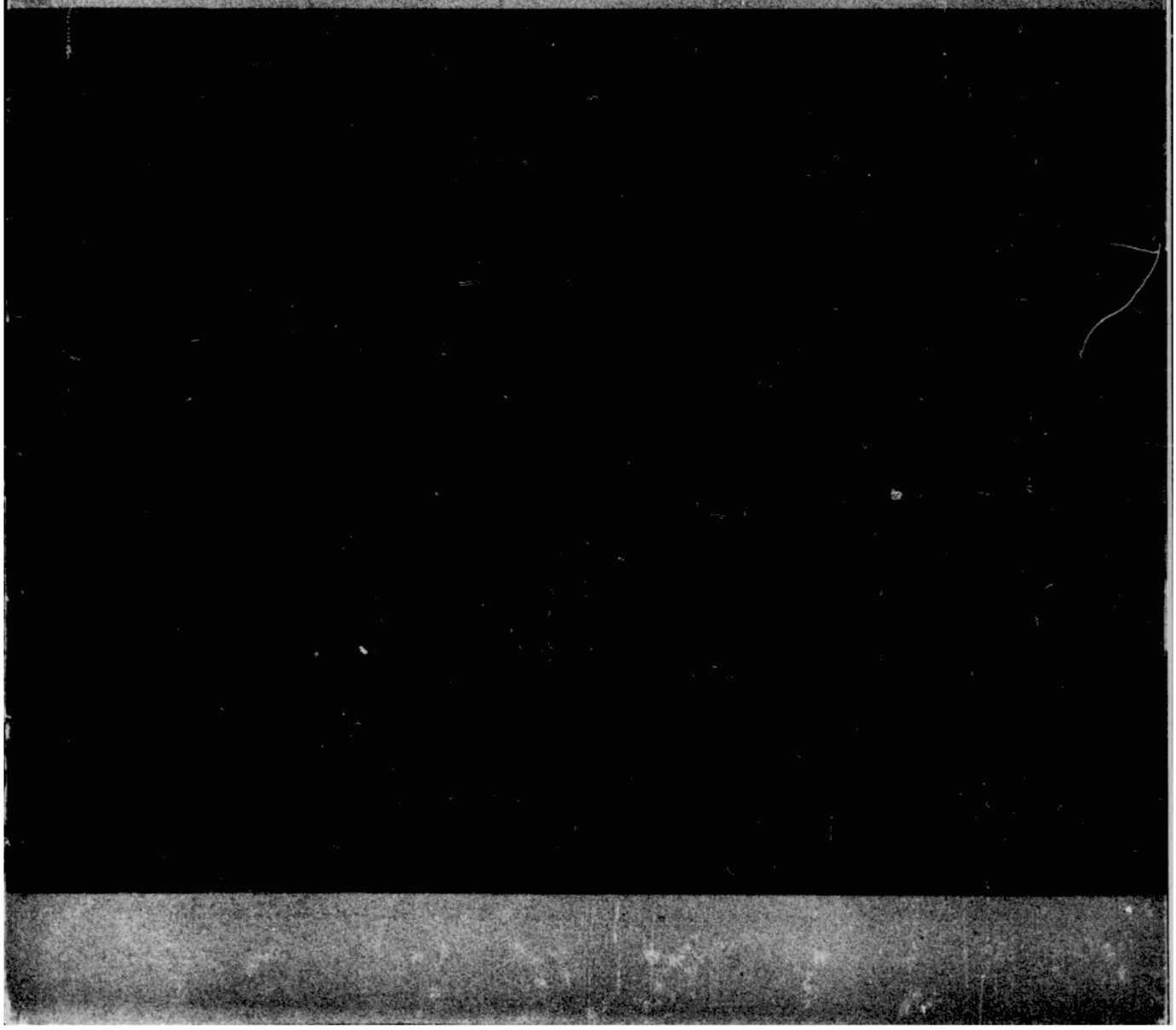
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MAY 1969



Amosite Seam in Penge Mine. Courtesy of The Cape Asbestos Company Limited.

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ASBESTOS

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EDITORIAL

Recent years have witnessed a tremendous upsurge of public interest in problems involving pollution of the air, water and soil which constitute man's environment. The medical profession, making use of greatly improved equipment and highly developed techniques and aided by modern methods of collecting, analyzing and interpreting data on all aspects of human health, has made giant strides in the direction of defining present or potential health hazards—those which might affect the general public and those whose effects might be confined to rather well defined geographic areas or to specific groups of people.

In some cases it has been found that exposure to certain environmental conditions has no immediately discernable effect on a human being but, after heavy exposure and the lapse of a considerable period of time, certain symptoms may occur which can be traced back to the period of original exposure. It is only through the systematic collection of valid historical data on many such cases that firm conclusions can be drawn as to whether a particular substance has any effect whatever on human health.

It has long been known that dusts of any kind in the air present an unfavorable environment for humans. The immediate effects are simply those of physical discomfort—congested nasal passages, irritated eyes or skin, difficult breathing, sneezing and coughing. However, it has been established that certain dusts, of certain particle sizes, when inhaled over certain periods of time, can come to rest in the lungs and can eventually be detrimental to one's physical well-being.

Since asbestos, in particular, has received much unfavorable publicity as a health hazard, it is with great pleasure that we are publishing in this issue an article describing positive steps being taken in one specific area to define the problems of persons working with asbestos-containing materials and to evolve ways to solve or avoid such problems now and in the future.

The Insulation Industry Hygiene Research Program (IIHRP), now well under way, involves labor, industry, science and government in a cooperative effort to scientifically analyze working conditions in the Insulation Industry and to develop effective means for protecting the health of workers

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in that Industry. While this Program is concerned with only one specific group of workers — the fabricators and those who apply and remove insulations in buildings, industrial plants and ships — its findings will, without question, be of great interest and importance to all sectors of the Asbestos Industry. For this reason we believe that everyone involved in the Industry—miner, processor, manufacturer, contractor and distributor—should take full advantage of the information being developed by IIHRP. The first of IIHRP's "Insulation Hygiene Progress Reports" has been published and we urge each and every one to write for a copy of the first edition and get on the mailing list to receive future issues of this most informative publication.

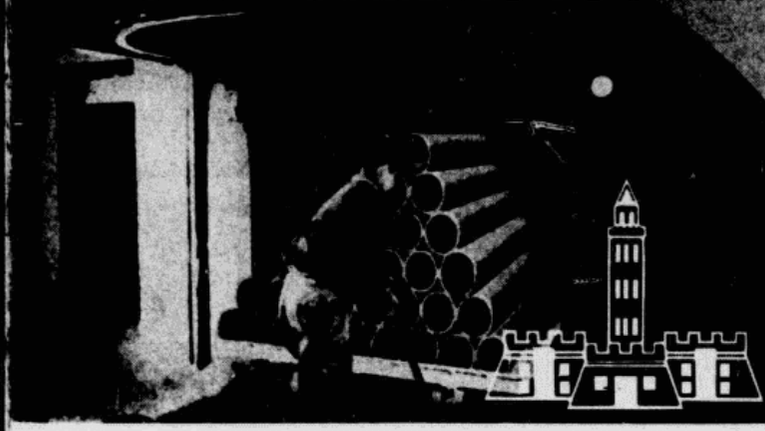
We would also point out that IIHRP is actively soliciting the help of all persons in the Industry who can contribute to this effort by submitting suggestions, analyses of proposals resulting from the Program, and any other information or constructive criticism which might be helpful to the success of the Program.

The results of this Program are being made available to the entire Industry and should prove of immense value to all concerned—whether or not they are directly involved in the Program. It is certainly in the interest of all Industry members to cooperate to the fullest to ensure the success of such an important undertaking.

NATIONAL HOME IMPROVEMENT COUNCIL, INC. re-elected the following officers at its Board of Directors meeting, January 8, 1969: *Morris C. Hoven,* President; *Joseph G. Hall,* Vice President; *Albert H. Fay,* Treasurer; and *John H. K. Shannahan,* Secretary. Mr. Hoven is Vice President of the Building Materials Division of Certain-teed Products Corporation. Mr. Hall is General Manager of the Building Products Division of GAF Corporation. Mr. Fay is Vice President-Marketing for National Gypsum Company. Mr. Shannahan is Vice President and Executive Director of the Electric Heating Association, Inc. *Armand Fontaine,* Executive Vice President of the American Building Contractors Association, was re-elected a Regional Vice President of the Council and *Edgar V. Hall* was re-elected Executive Director.

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AUTOMATIC PLANTS TO [illegible] SOCKETED [illegible]



AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

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JOINT HEALTH RESEARCH EFFORT

The first in a series of Insulation Hygiene Progress Reports (IHPR) has recently been issued by the Insulation Industry Hygiene Research Program (IIHRP).

It is most interesting to note the steps which have already been taken in this combined industrial hygiene and preventive engineering research program to develop improved methods for minimizing exposure of insulation workers to dust and fumes encountered on their jobs.

IIHRP, under the direction of Irving J. Selikoff, M.D., Director of the Environmental Sciences Laboratory, Mount Sinai School of Medicine of The City University of New York, is this nation's first effort involving the cooperation of an international labor union, industry and science, consulting with government, to undertake a health research program for industrial workers.

The Program is budgeted at $362,500 for the first year and is jointly financed by the International Association of Heat and Frost Insulators and Asbestos Workers (IAHFIAW), and Johns-Manville Corporation. The Sprayed Mineral Fiber Manufacturers Association is also contributing financial support and cooperation to the project.

The Advisory Council of IIHRP consists of Dr. Selikoff, Program Director and Chairman; E. Cuyler Hammond, Sc.D., Vice President of the American Cancer Society; Albert Hutchinson, General President of IAHFIAW; J. B. Jobe, Vice President, Johns-Manville Corporation; Fred L. Pundsack, Ph.D., Vice President, Research and Development, Johns-Manville Corporation; and George W. Wright, M.D., Director of Medical Research, St. Luke's Hospital, Cleveland, Ohio.

The stated purposes of the Program are: (1) To develop improved methods for minimizing exposure of insulation workers to dusts and fumes encountered in their work; (2) To disseminate knowledge of these improved methods of dust control wherever they may be applied advantageously and to offer cooperation, advice and assistance toward their universal adoption.

Close cooperation of the government in this Program is assured through arrangements between scientists associated with the Program and authorities of the U. S. Public Health

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PHS Bureau of Occupational Safety and Health, the experience and facilities of the Bureau's National Center for Urban and Industrial Health in Cincinnati, Ohio, have been made available to IIHRP and several conferences have already been held between scientists of the two groups for review of the latest dust sampling equipment and methods, and laboratory procedures for analyzing samples.

The staff of IIHRP includes a number of well known industrial hygienists who, operating as teams, have already completed on-site studies of working conditions at some 30 construction projects and fabricating shops. Additions to this staff are being made and, on the basis of observations already made, plans for more detailed sampling and analyses at selected sites are moving ahead. Results of these field studies are fed back to the Laboratory which analyzes the findings to identify and study the sources of dust exposure. Task forces of industry-labor personnel will then be formed to review the practices in question and to recommend modifications in equipment and procedures to eliminate or minimize a particular hazard. Such recommendations will be studied to determine their probable effectiveness. If this appears satisfactory they will be field tested under actual working conditions. Based on the findings, if they are satisfactory, they will be submitted to the Advisory Council for approval. Dr. Selikoff stresses that no recommendation will be approved by the Council unless it is both effective and practical.

Those involved in this Program are confident that, because of its cooperative nature, it will meet with success and will be of great benefit to many others who are not directly involved at present.

The complete story of IIHRP, to date, is contained in the first issue of IHPR (Spring 1969). This and subsequent issues may be obtained by writing—

Mr. Matthew M. Swetonic
Public Relations Department
Johns-Manville Corporation
22 East 40th Street
New York, New York 10016

—requesting that your name be placed on the appropriate distribution list.

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"Tropag" Celebration

"Tropag" Oscar H. Ritter K.G. will celebrate its 50th anniversary this month. The company was originally founded in May 1909 in London under the name of Ritter & Ritter but was re-founded in Hamburg on May 24, 1919, as Gebr. Ritter & Co. Since 1922, the name of "Tropag" (Tropische und Uberseeische Rohprodukten AG) has been very well known. Originally the company was involved in the importing of asbestos, ores and minerals but over the years has extended its business and today supplies an extensive line of products to German industrial concerns. "Tropag" acts as German sales representative for a number of foreign concerns.

THE ONTARIO RESEARCH FOUNDATION is relocating its pilot plant facilities for ore dressing and process metallurgy studies. The present facilities at Rexdale, Ontario, will be closed down and the new plant will be built at Sheridan Park, near Clarkson, Ontario, adjacent to the main laboratories of the Foundation.

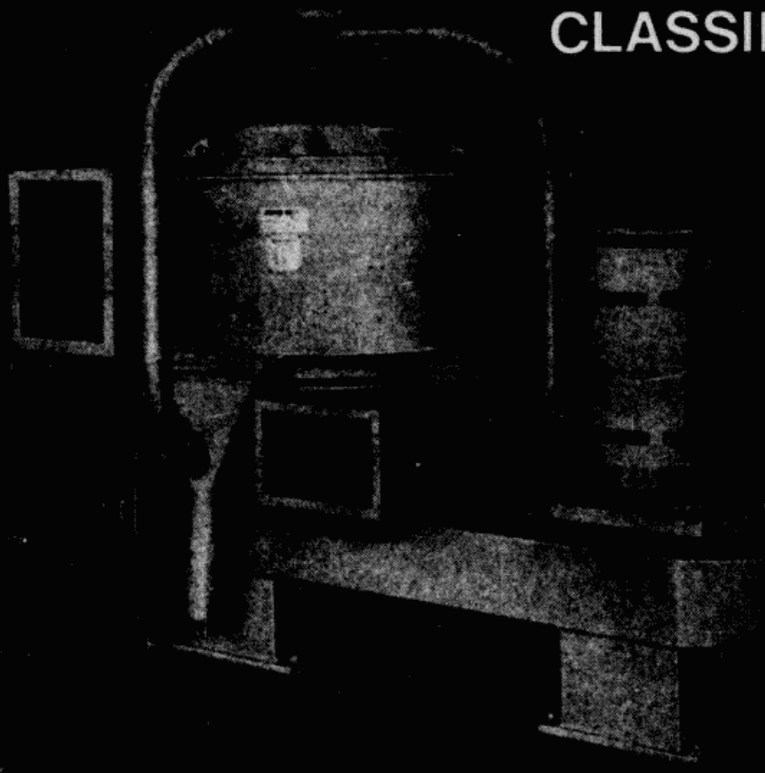
LESLIE A. KAUTZ has received the *J. A. Piper Award* from the *National Roofing Contractors Association* in recognition of his outstanding service to the roofing industry. This is the first time this annual award has been presented to a manufacturer's representative. Mr. Kautz is the newly-named Marketing Manager of Building Materials for the PHILIP CAREY CORPORATION.

THE THERMAL INSULATION ASSOCIATION OF CANADA will hold its 7th annual meeting, September 17-21, 1969, at Cleveland's House, Minett, Ontario, Canada. A program of outstanding panels and speakers is planned and arrangements for the meeting are under the direction of C. Y. Thompson of Vincent-Cutler Insulation Limited, Toronto.

TIAC is a national association of industrial insulation contractors, suppliers and manufacturers.

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INDUSTRY'S MOST EFFICIENT CLASSIFIER



THE BAUER CENTRI-SONIC

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Ask about Bauer total function systems designed for your needs.

BAUER

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SUPERCONCRETE PIPES (S.A.) LTD. is now marketing a new *asbestos-cement ceiling board* which it is selling under the brand name ASBESTEX. The ceiling board is being manufactured in the company's coastal factories and is specifically designed to meet the needs of coastal conditions. The material has been granted the mark of the South African Bureau of Standards.

ONE POUND OF EXPLOSIVE can dislodge 5,000 pounds of rock in an open-pit asbestos mine. This figure is just one of the statistics that open-pit engineers at *Asbestos Corporation Limited's Normandie Mine* arrived at following the latest of a series of unique ramp-sinking cuts which were blasted successfully this past year. The engineers were endeavoring to release high-grade ore from the bottom of the pit. It took two weeks for preparation and 180 six-inch drill holes were required. The mining engineers calculated that it would take 5,740 pounds of one explosive and over 43,000 pounds of another type, plus 464 primers and over a mile of primer cord, to detonate the explosive charges. At detonation, the rock was lifted about 150 feet and some rocks flew as high as 500 feet from the bottom of the pit. No fly rock left the pit, however, and when final calculations were made, it was discovered that 110,000 tons of rock were broken, 15,000 tons more than expected.

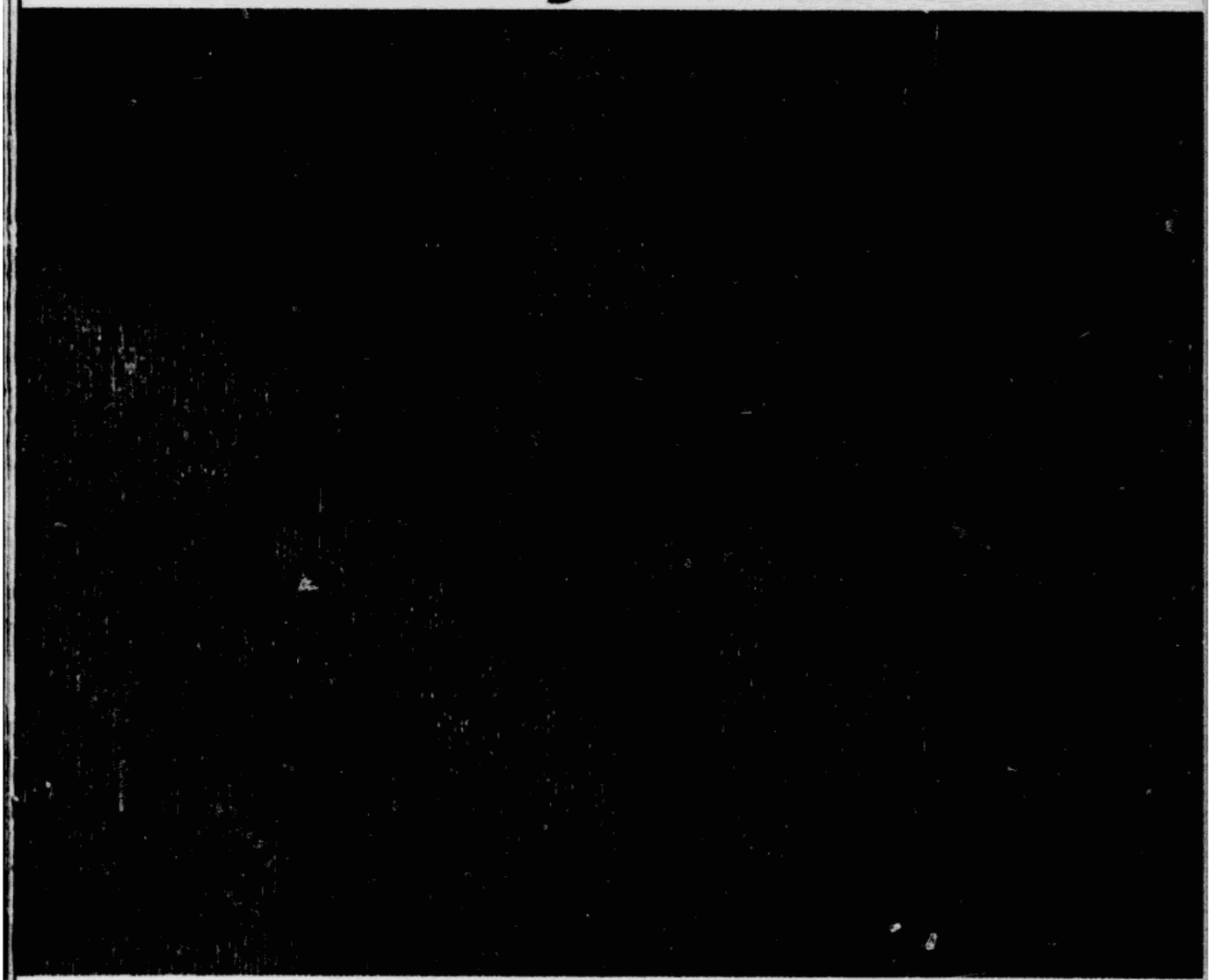
In Memoriam

CYRIL LESLIE HIRST, well known by those in the Rhodesian mining industry, passed away in Bulawayo in his 84th year. Mr. Hirst prospected for asbestos and pegged the Lanninhirst Asbestos Mine, so called after his wife's maiden name, Lannin, and his own surname. In 1909, he arrived in Rhodesia and became Secretary of the Claremont Mine. He was the Secretary for various mines in Rhodesia including the Turk Mine from 1928 until 1963.

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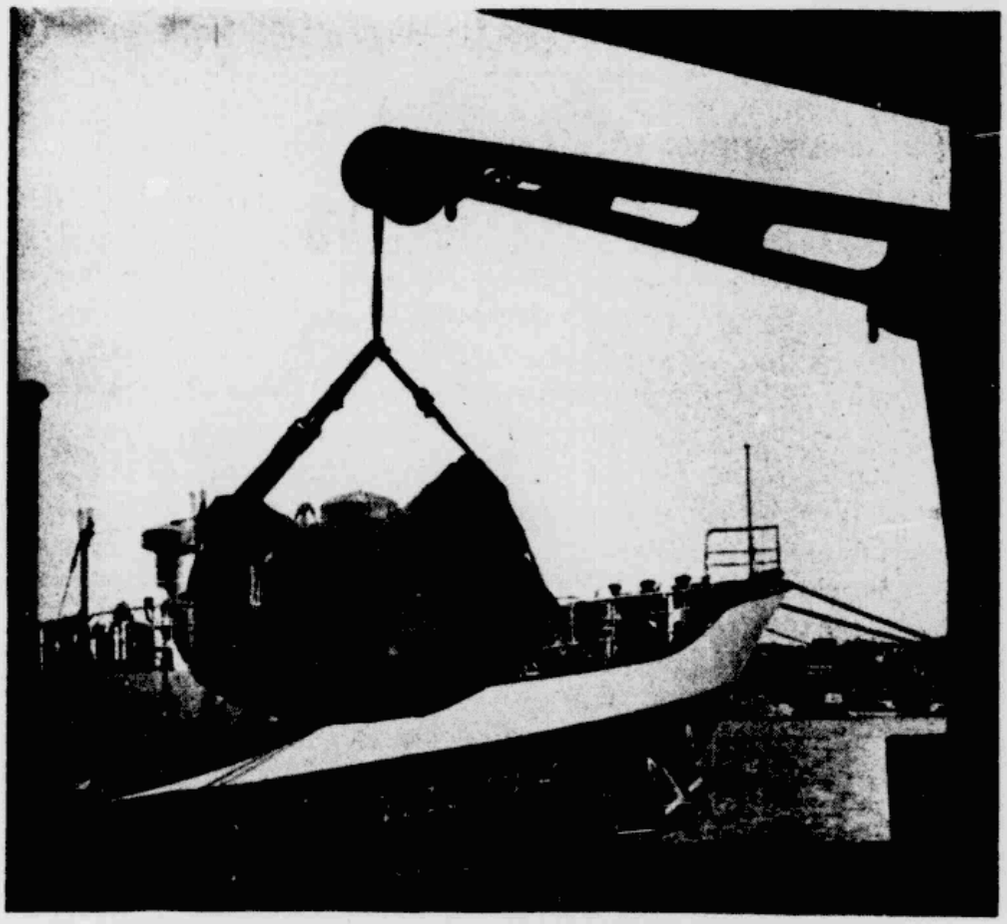
As yarn or fabric, Asbeston comes in the widest variety of weights and sizes for every application. For details, write: Uniroyal Fiber and Textile, 350 Columbia Road, Winnsboro, South Carolina 29180.

ERIEZ MAGNETICS has issued a new 48-page illustrated booklet on its line of *magnetic separation, automation and vibration equipment.* The booklet is entitled "Magnetic Ideas" and contains facts on how magnetic separators are used in processing lines; how Eriez MAGNAmation equipment helps to convey, transfer, control, elevate, reposition, hold or reorient ferrous materials or finished parts; how permanent electromagnetic vibratory feeders feed measured amounts of free-flowing materials; and how bin (unit) vibrators maintain a smooth flow of hard-to-handle materials.

HEC INDUSTRIES, INC. has announced the *shoc-Korder, Model SR-102,* a new and unique peak velocity vibration measuring and recording instrument. The instrument is designed for remote operation by contractors to help control and protect operations associated with blasting, pile driving, heavy traffic, or other activities which cause potentially damaging vibrations. An electronic holding circuit enables peak velocities to be indicated on a panel meter until recorded and reset by the operator. The indicating meter permits the contractor to control blasting within safe limits and to demonstrate the safety of his work to property owners. A film record can be made immediately at the site, thus avoiding a possible lawsuit by satisfying vibration complaints on the spot, or providing valuable evidence in the event a case is taken into court.

NATIONAL GYPSUM COMPANY's Board of Directors has declared the regular quarterly dividend of $1.12½ per share on preferred stock, payable June 1, 1969, to holders of record May 9, 1969. The Board also declared a 26¼c per share quarterly dividend on National's common stock after stockholders earlier had approved a two-for-one split effective April 24, 1969. The dividend declared is payable July 1 to holders of record June 10 and represents a 5% increase in the $2.00 per share annual dividend [illegible]

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MARKET CONDITIONS

General Business.

Despite further restrictions on credit, designed to slow the inflationary spiral, and the administration's indicated intention to further tighten the federal budget, figures for March showed a continuing upward trend in general business. Industrial production reached a new record high and personal income showed a substantial increase. Retail sales also increased to an all-time high although the Commerce Department is anticipating some decline in consumer spending in the near future. While some economists feel even stronger steps should be taken to slow down the economy, others, including some in government, are taking the position that the "medicine" already administered is sufficient to achieve the desired result but, in a thing as complex as the economy, with the interplay of so many variables, it takes a relatively long time for any measure to show concrete results. Even when some trend may actually be reversed, it can be extremely difficult to prove the reversal was caused by a specific policy rather than by a combination of seemingly unrelated factors which had little or no tie-in with that policy. In the present situation, as has often happened in the case of large individual companies, sheer momentum can keep things looking good even though the seeds of a downward turn have already been sown. The turn won't occur until the seeds have germinated. This is not to say further, stronger steps may not be necessary to slow the boom. It is simply to point out that many experts in the field are of the opinion that the present restraints *should*, given time, produce the desired result. Further action at this time could lead to a precipitous recession, when combined with measures already in effect, and this is something no one wants to happen.

GAF CORPORATION's board of directors declared a dividend of 10c per share of common stock and a dividend of 30c per share on its $1.20 Convertible Preferred Stock, both payable on May 20 to stockholders of record on April 18.

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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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- *pipe curing by means of roller conveyor*
- *automatic sheet corrugation and quick maturing of them*
- *modernization of pipe machines with two forced feeded sieve cylinders.*

R. C. M.

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Cable Address: Erciem Torino - Phone: 233823/4/5 - 284837 - 284797

RAYBESTOS - MANHATTAN, INC. has acquired *Spartan Abrasive Company, Inc.*, as a wholly-owned subsidiary. The move will broaden the application of R/M abrasive products and will provide manufacturing facilities in the largest steel producing and finishing area in the United States. Located in South Fayette Township, near Pittsburgh, Pennsylvania, Spartan Abrasive manufactures grinding wheels and markets synthetic rubber wheels and cold process resinoid wheels. R/M makes a variety of grinding, finishing and cut-off wheels and an extensive line of resinoid and metal bonded diamond wheels. Louis L. Marra, former president of Spartan, will become a member of the Board of Directors of R/M's Spartan Abrasive Division and will act as a distributor for R/M abrasive and diamond wheels in the Pittsburgh area, trading as Marathon Abrasive Company. Brand names to be incorporated in the line with "Manhattan" and "Moldisc" will be "Taeco" for resin bond grinding wheels, "Montour" for synthetic rubber wheels and shellac bond wheels, and "Spartan" for specialty wheels.

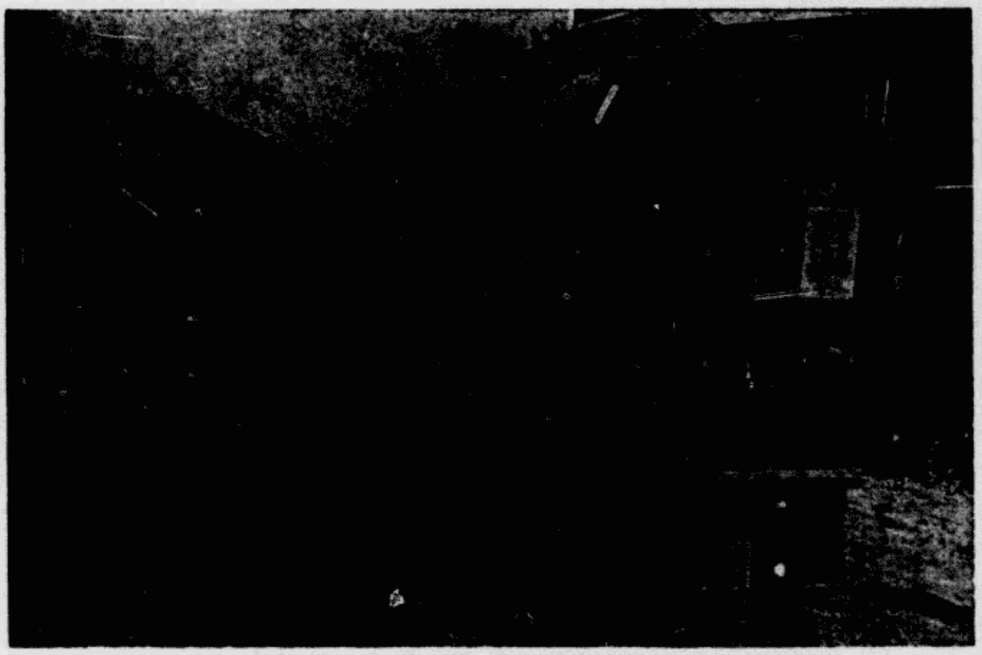
RAYBESTOS - MANHATTAN, INC. has signed a contract with Esso Chemical Company for the purchase of *Breku Riebbelag Gmbh & Company*, Radevormwald, West Germany. Breku is a manufacturer of friction materials and will give R/M access to the Common Market and will help protect existing business now being exported from the United States.

SPEEDLAG, as mentioned in January 1968 ASBESTOS, on page 38, is a pre-pasted asbestos lagging cloth for thermal insulation of pipes, flanges, turbines and similar applications in ships and steam plants. According to the manufacturer, the Asbestos Textile Division of *Raybestos-Manhattan, Inc.*, this material has been improved in that it now meets the chemical requirements of MIL-I-24244, a military specification covering fabrics used in nuclear power plants. Because of its very low chlorine concentration, "Speedlag" will not contribute to stress corrosion of austenitic stainless steel. It has also been improved to the point where the adhesive used in the material is 100% inorganic and imparts flame retardancy to underwriters' grade cloth.

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Supplies (Pty.) Ltd.
Johannesburg, So. Africa

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JOHNS - MANVILLE CORPORATION has introduced three new brochures to illustrate and describe its 1969 line of resilient floor tile. Booklet No. FL-253A, entitled "New Dimensions in Floor Tile by Johns-Manville," shows the complete line of floor tile now available from J-M. Booklet No. FL-254A is devoted solely to illustrating the deeply embossed "Vinylcraft" custom design patterns. "Montage" is the subject of the third brochure, No. FL-255A, which illustrates many of the unusual wall-to-wall designs that can be created with individual tiles.

J-M THERMOSTONE BOOKLET—A new dramatic fold-out brochure on the *Thermostone building panel* is now available from Johns-Manville Corporation. The colorful and unusual booklet, No. IAC 108A, gives the specifications of the product and shows why the Thermostone components, and the panel itself, are classified as non-combustible.

Thermostone is a laminated panel composed of an insulating core faced on both sides with asbestos-cement sheets. It has the same fire rating carried by gypsum or masonry wall construction of much greater thickness. A 2½" panel has a two hour U. L. Fire Rating and the 1-9/16" panel has a one hour U. L. Fire Rating.

RUSSIAN PAPERS—The following papers concerning asbestos were listed under "U.S.S.R." in the January-February 1969 edition of the *"Asbestos Bulletin"*: Production of Synthetic Asbestos From Wastes of Asbestos Dressing Factories, Crocidolite and Riebeckite in Veins of the Alpine Type Associated with Alkaline Formations, Methods of Hardening Asbestos-Cement Products (in Russian), Extrusion Method for the Manufacture of Asbestos-Cement and Other Fibrous Products, and Development of the Production of Technical Asbestos Articles in the Soviet Union.

(Applications for copies or translations should be made directly to the "Asbestos Bulletin," Astex Publishing Company, 22-23 North Street, Guildford, Surrey, England.)

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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.

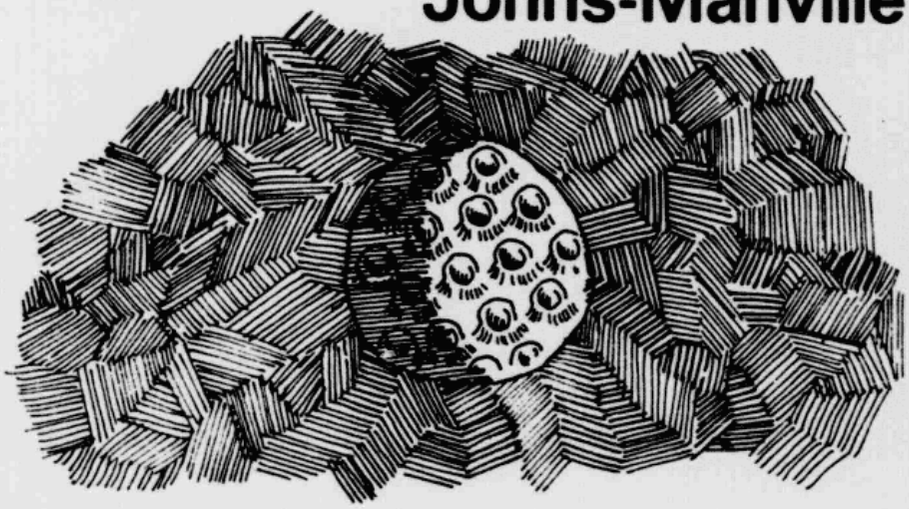
Back on Earth, you can find asbestos just about everywhere you look. In industry, our asbestos fibers add strength and fire-retardant qualities to J-M Transite® pipe, insulation, and clutch and brake linings. To mention just a few.

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.

JM

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Building

From: McGraw-Hill Information Systems Company

MARCH 1969—Contracts for all major types of construction fell below their year-ago levels. Contract value totaled $5,003,079,000, a decline of 8% from the March 1968 amount. The seasonally adjusted Dodge Index (1957-1959=100) dropped sharply from its all-time high of 205 in February to the March rate of 177. It was the lowest reading of this Index since last June. Some slackening of the recent brisk pace of construction activity was inevitable as monetary and fiscal restraints have been tightened more and more. What happens in the near future will tell whether the sharp break in March was only a reaction to the surge in February or the signal that an important change is now taking place in construction markets.

Nonresidential building contracts, at $1,772,326,000, were 3% below last March. Office buildings and hospitals were the only important sources of expansion among a series of declines in manufacturing plants, schools, religious buildings and recreational facilities.

Residential building contracts totaled $1,957,142,000, 12% below last year's value. Declines appeared in all the major categories of residential structures but the biggest loss was concentrated in apartments.

Nonbuilding construction contract value was $1,273,611,000 in March, 6% below the comparable year-ago amount. Highway construction and sewer-water projects were up but these gains were not large enough to balance the sizeable reduction in utility contracts.

FIRST QUARTER 1969—Nonresidential, $5,767,140,000, up 31%; Residential, $5,505,490,000, up 7%; Nonbuilding, $3,237,508,000, up 1%—Total Construction, $14,510,147,000, up 14% over the first quarter of 1968.

HAMPSHIRE EQUIPMENT CORPORATION is introducing, throughout the United States, Canada and Mexico, a new *tractor-trailer safety device* designed to eliminate jackknifing accidents. First introduced in England several years ago, the stabilizer is built into the tractor-trailer coupling to prevent the trailer from sliding sidewise when the brakes are applied.

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ALL TYPES OF ASBESTOS CEMENT MACHINERY

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ASTM PUBLICATION—The American Society for Testing and Materials has published *STP445—Materials Performance and the Deep Sea* which contains recent research data on the effects of the deep-ocean environments on materials such as plastics, wood, glass hydrospheres, iron, steel, aluminum alloys, and battery materials. The 146-page publication is obtainable for $9.50 per copy, plus handling and shipping charges.

EVALUATION OF WEAR TESTING has been issued by the *American Society for Testing and Materials* as Special Technical Publication 446 and is available at a cost of $7.75, plus handling and shipping. The 140-page publication, size 6" x 9", contains six papers on the subject of wear testing evaluation and includes a chapter on the various modes of wear such as adhesion, abrasion, corrosion and surface fatigue.

THE U.S. NATIONAL BUREAU OF STANDARDS will conduct a two-day *Symposium on the Measurement of Flammability* in the Department of Commerce Auditorium, Washington, D.C., June 5 and 6, 1969. Four working sessions will be held and will be concerned with "Statement of the Problem," "What Should be Measured," "State of the Art in Measurement," and "Applied Measurements." The General Chairman for the Symposium is James V. Ryan, Chief, Fabric Flammability Section, Room B06, Building 225, NBS, Washington, D.C. 20234.

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ASBESTOS-CEMENT PIPE MACHINE

Full scale, double vat, pilot machine 30" wide. Complete with fiber preparation equipment, D.C. drives, curing tunnel and conveyors. Latest design. New in 1963. Must be removed in 1969. Contact: Purchasing Agent, Certain-teed Products Corporation, Pipe Division, 25 Skippack Pike, Ambler, Pennsylvania 19002 (Telephone: 215-643-0600)

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Automobile Sales

FEBRUARY 1969 motor vehicle factory sales from plants in the *United States* totaled 864,740 (passenger cars—707,403, trucks and buses—157,337). The total for February 1968 was 847,570.

Motor vehicle factory sales from plants in *Canada* totaled 99,067 for February 1969 compared with 68,695 in February 1968.

EXPLORING SPACE WITH A CAMERA is a visual tour of the Solar System and is available as NASA Special Publication 168 from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. The clothbound album of the finest pictures of the Earth, the Moon, and Mars, taken from America's spacecraft, is obtainable for $4.25. A NASA official selected the pictures from the many photographs obtained in the first 10 years of space exploration and many are in full color. All of them are interpreted and explained in captions.

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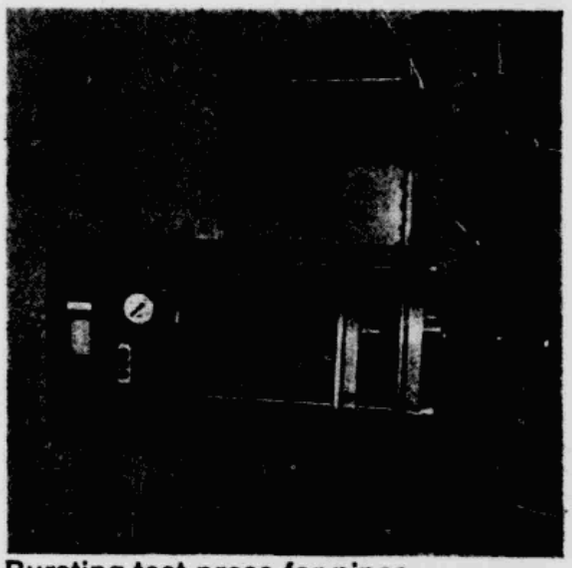
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Pressure recorder of our test presses



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Triple pipe test press



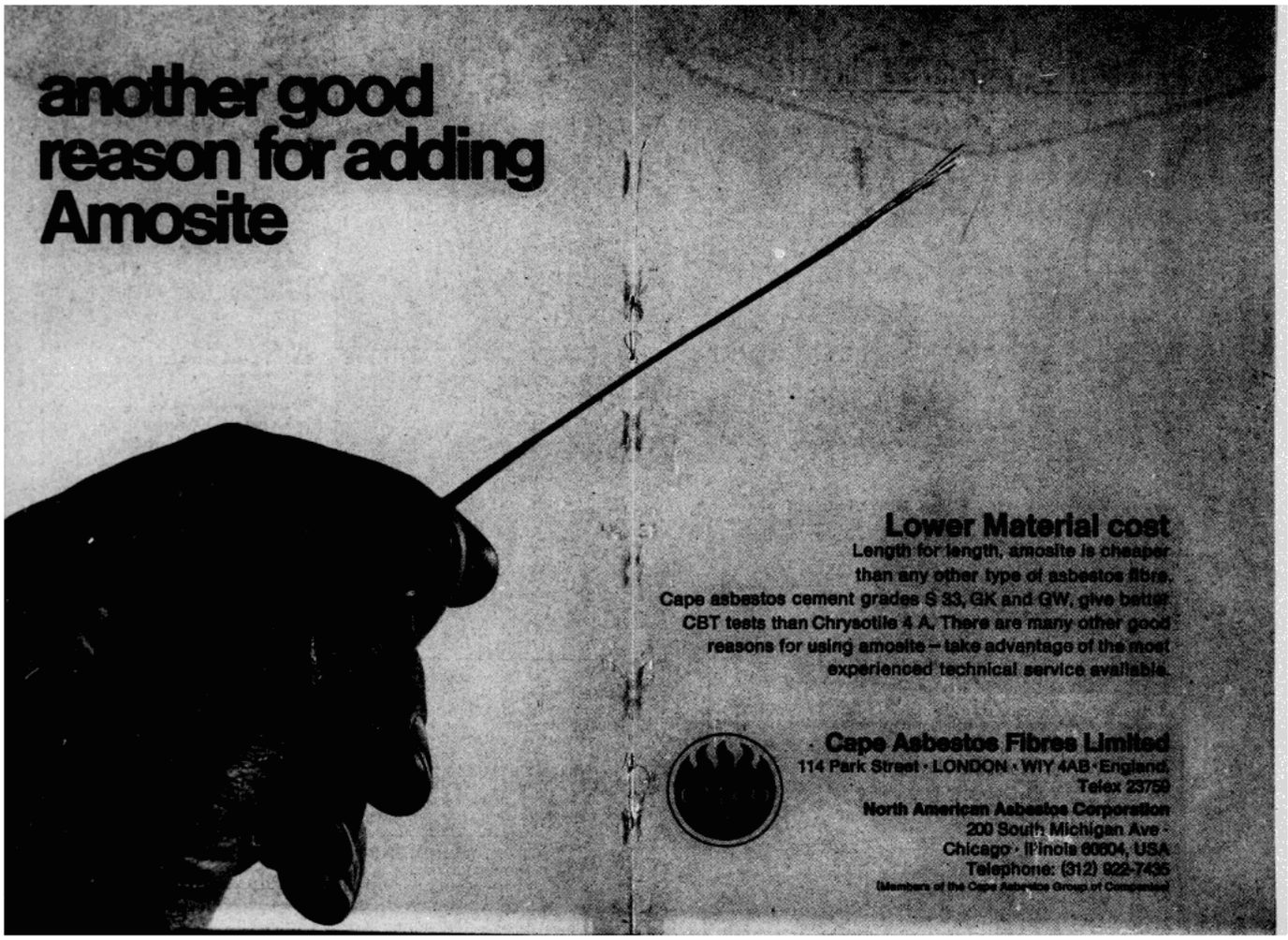
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Chicago · Illinois 60604, USA
Telephone: (312) 922-7435
(Members of the Cape Asbestos Group of Companies)

PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 10,016,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the *Third Quarter of 1968*.

Australia—According to the Bureau of Mineral Resources, Geology and Geophysics, Canberra, production of chrysotile asbestos from mines in New South Wales and Western Australia for the *Second Quarter of 1968* amounted to 281 short tons. Exports of all types and grades of asbestos for the same period reached 179 short tons, valued at $43,000.

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 15,506 short tons of asbestos, valued at $1,978,000 (Australian), were imported by Australia during the *Third Quarter of 1968*.

Canada—According to the Dominion Bureau of Statistics, producers' shipments of asbestos during *January 1969* totaled 87,008 short tons (73,581 tons from Quebec and 13,427 tons from Newfoundland, Ontario and British Columbia). The total for *January 1968* was 85,014 tons.

Canada imported 150,687 square feet of vinyl-asbestos floor and wall tile during the *Fourth Quarter 1968*. The cumulative amount for the *Year 1968* is 434,763 square feet. These imports were compiled from figures issued by the Dominion Bureau of Statistics, Ottawa.

Swaziland produced R6,045,677 worth of asbestos during the *Year 1968*. The production figure for the year 1967 was R5,858,028.

" Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

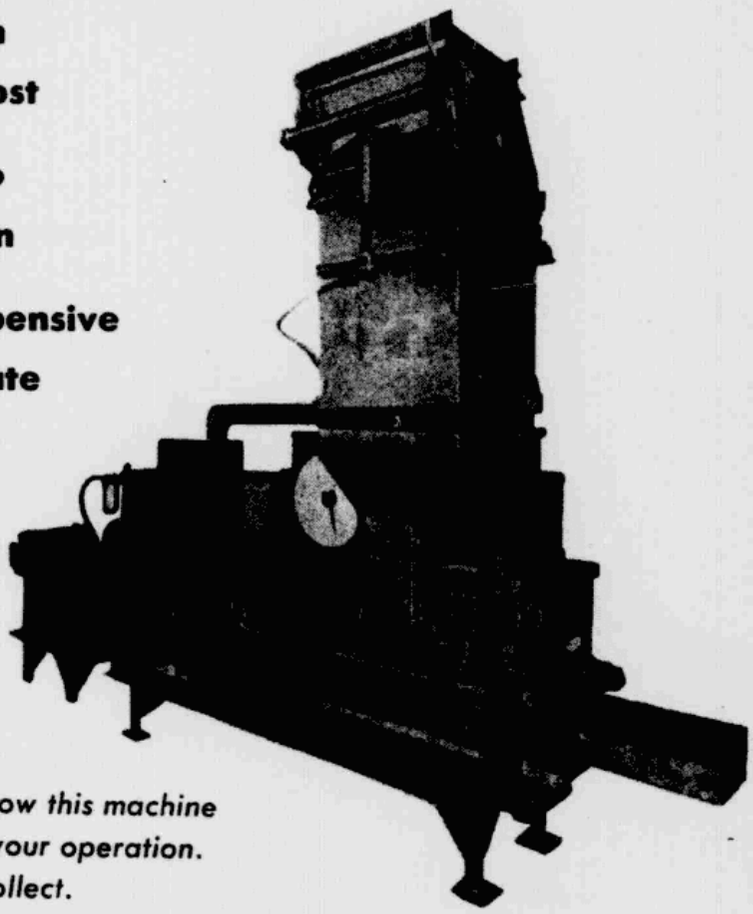
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Exports From U.S.A.

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

Unmanufactured Asbestos:		JANUARY 1969	
Crude & Spinning Fibers	s. tons	49	$ 11,400
Non-Spinning Fibers	s. tons	1,055	140,847
Waste & Refuse	s. tons	2,186	221,569
		3,290	$ 373,816
Manufactured Asbestos Goods:			
Asbestos or Fiber Cement Articles	Lb.	379,898	$ 58,779
Gaskets & Packing	Lb.	167,728	241,912
Textiles & Yarns	Lb.	510,332	91,211
Mfrs. other than Friction Materials		..	174,026
Clutch Facings & Linings for auto use	No	102,966	57,870
Clutch Facings & Linings, Other	No	58,415	36,188
Brake Linings for auto use	Lb.	608,854	316,240
Brake Linings, Other	Lb.	137,994	103,826
			$ 1,080.052

Exports From Canada

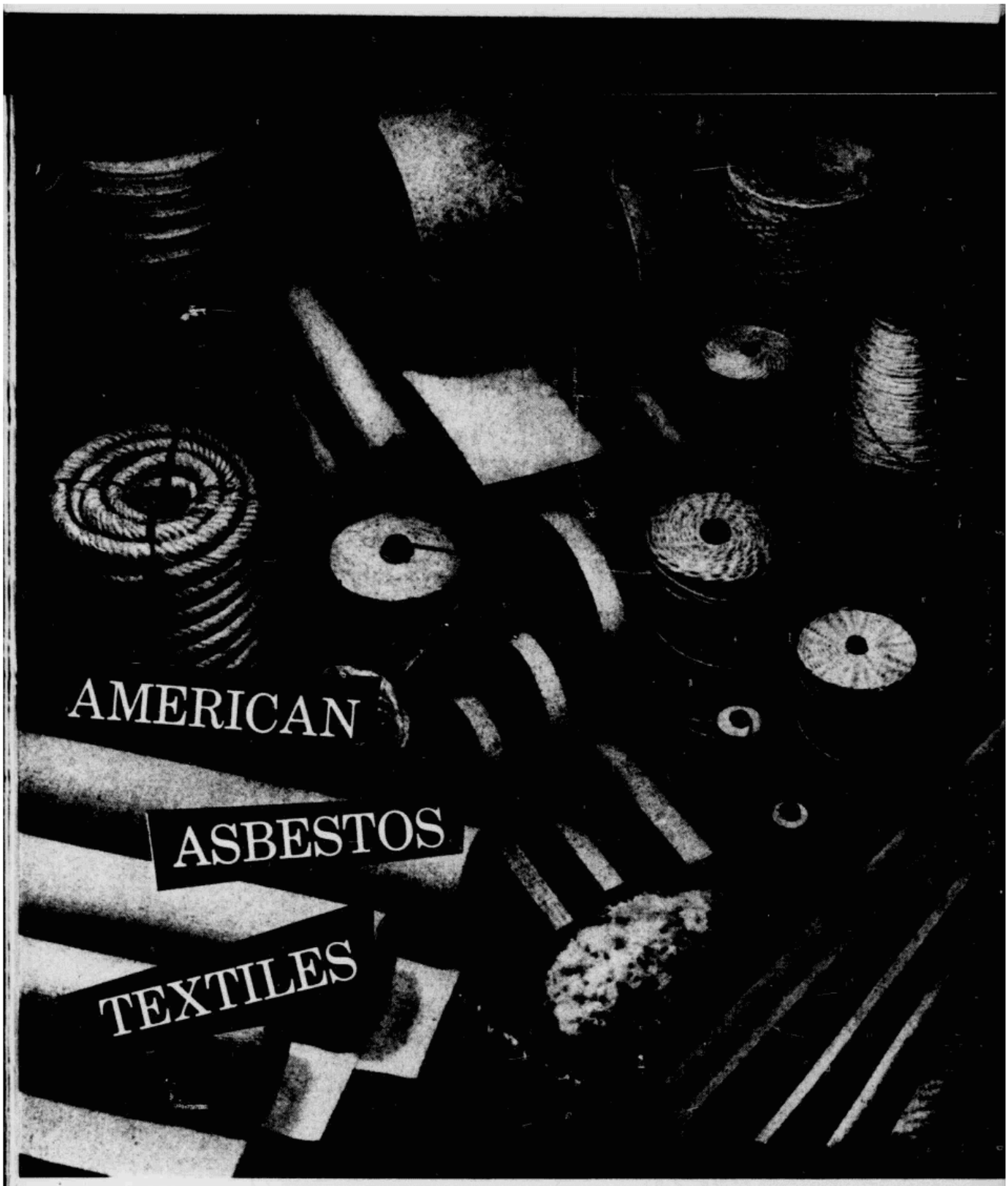
(Published by Dominion Bureau of Statistics) **JANUARY 1969**

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	..	550	..
Western Europe	4	2,124	38,958	20,114
Middle East	..	..	2,525	205
Africa	..	390	1,210	19
Asia	6	303	11,735	23,112
Oceania	..	..	3,407	656
So. & Cen. America & Antilles	..	82	9,061	3,128
United States	7	1,847	16,606	37,187
	17	4,746	84,052	84,421

The total amount of unmanufactured asbestos in *January 1969* was 173,236 tons, valued at $24,034,000.

Manufactured Asbestos Goods:	
Asbestos Brake Linings & Facings	$ 126,000
Asbestos-Cement Building Materials	145,000
Asbestos Basic Products, Other	79,000
	$ 350,000

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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:

N68-33684—Refractory-Metal-Fiber—Nickel-Base-Alloy Composites For Use At High Temperatures, by D. W. Petrasek, et al, Lewis Research Center;

NASA SP-5021(08)—Cumulative Index to NASA Tech Briefs, January-December 1968.

NASA SP-5070—Teleoperator Controls, by W. R. Corliss & E. G. Johnsen, a Technology Survey of the Atomic Energy Commission and the National Aeronautics and Space Administration;

NASA SP-5073—Pavement Grooving and Traction Studies, a conference held at Langley Research Center, Hampton, Virginia, November 1968;

PB-180 118—The Economic Potential of the Mineral and Botanical Resources of the U.S. Continental Shelf and Slope, prepared by Economic Associates, Inc., Washington, D.C. for the National Council on Marine Resources and Engineering Development;

PB-180 299—Noise-Sound Without Value, prepared by the Committee on Environmental Quality of the Federal Council for Science and Technology.



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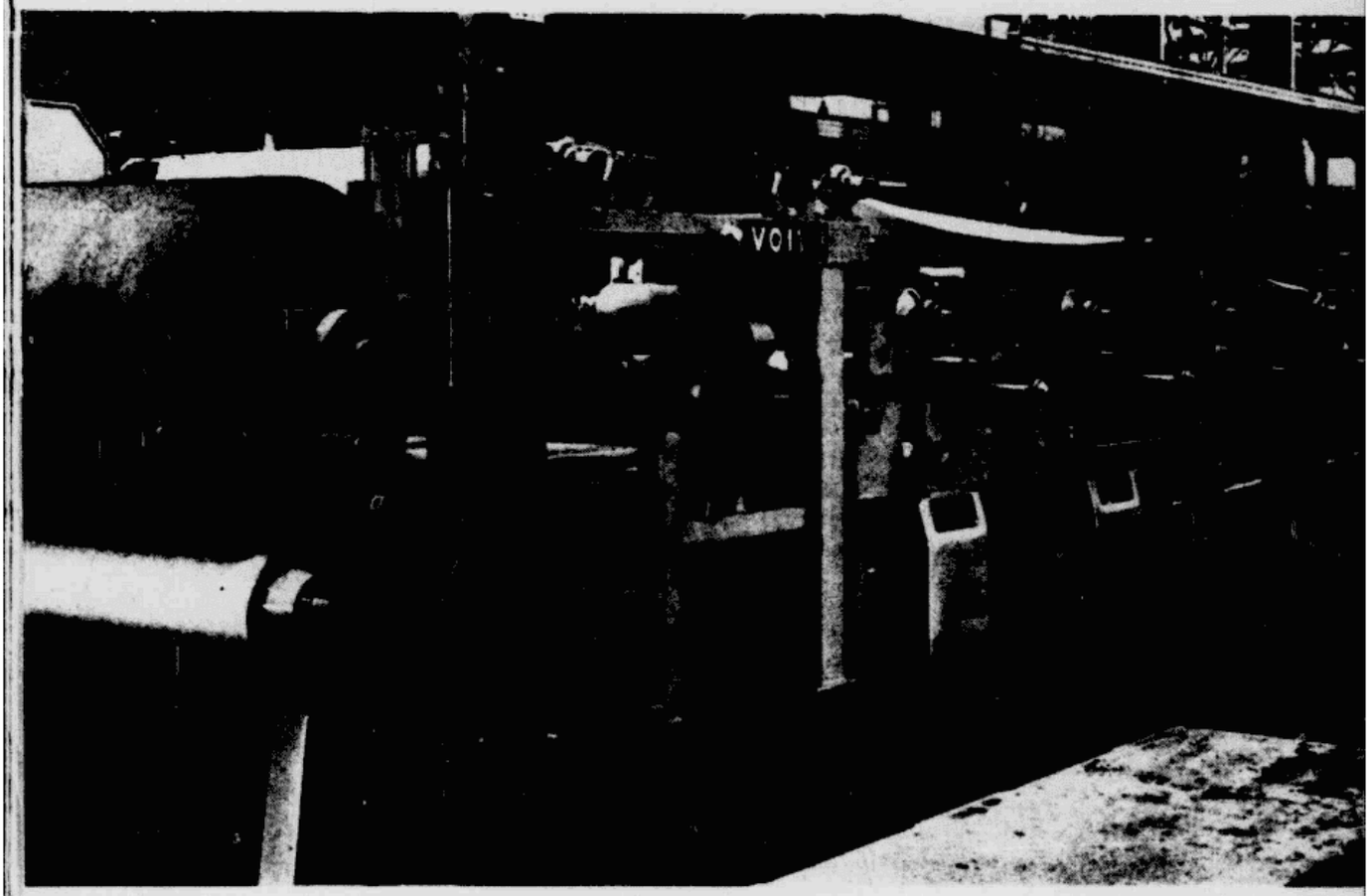
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200 tons
daily production



SM 967

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asbestos cement sheet machine
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PREPRINTS—1967 U.S. BUREAU OF MINES MINERALS YEARBOOK

The Mineral Industry of Bolivia (10c)—During 1967, approximately 4 metric tons of asbestos were produced in Bolivia and 2 metric tons were exported, all to the United States.

The Mineral Industry of Central American Areas (20c)—The latest statistics reported for the various countries in this area are for the year 1966 and include the following figures on asbestos. *Costa Rica* imported 141 metric tons of asbestos, mostly from Canada. *El Salvador* imported 1,241 metric tons of crude, washed or ground asbestos, mainly from Canada, and exported 1,552 metric tons of asbestos-cement commodities, mostly to Honduras. *Guatemala* imported 554 metric tons of crude, washed or ground asbestos, largely from Canada. *Honduras* imported, mainly from Canada, 334 metric tons of asbestos and exported, to El Salvador and Nicaragua, 416 metric tons of asbestos-cement products. Imports of 70 metric tons of asbestos were reported for *Nicaragua,* mostly from the United States, the United Kingdom and Canada. *Panama* produced an estimated 700 metric tons of asbestos-cement materials and imported 49 metric tons of raw, washed or ground asbestos, mainly from Canada.

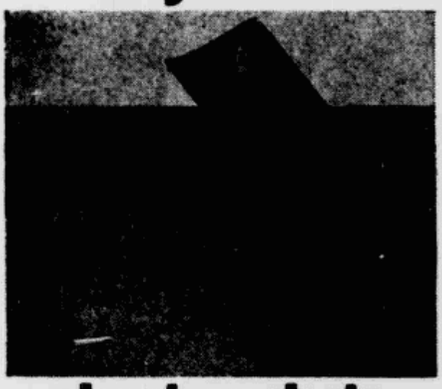
The Mineral Industry of Vermont (10c)—The value of mineral production in Vermont in 1967 was $27,268,000, 5% greater than in 1966 and only slightly less than the record year of 1965. The value of asbestos production was withheld to avoid disclosing individual company confidential data. GAF Corporation produced chrysotile asbestos at the mill and quarry located on Belvidere Mountain, near Lowell, Orleans County. This property was formerly the Vermont Asbestos Mines Division of The Ruberoid Co. and is now a part of GAF. While operating the open pit mine, the company compiled a total of 131,079 man hours worked without a disabling work injury and for this outstanding safety record received the Certificate of Achievement in safety from the U. S. Bureau of Mines.

Canadian Mining Journal, in its February 1969 issue, has published its annual review of the *"Canadian Mineral Industry"* for the year 1968. The various sections of this comprehensive report are "Review by Provinces," "The Mineral Industry and the Economy," "Mineral Reviews in Detail," "Mineral Exploration," "Milling and Process Metallurgy," "Mining Technology" and "Outside Canada Highlights."

An informative chapter on *"Asbestos"* has been written by W. G. Jeffery, Department of Energy, Mines and Resources, Ottawa, which covers the activities of asbestos mining companies in the Provinces of Quebec, British Columbia, Ontario, Newfoundland and the Yukon Territory. According to Mr. Jeffery, the outlook for asbestos sales and production in 1969 is most favorable, world productive capacity and consumption are in near-balance and consumption is growing at a rate of 4-5% a year.

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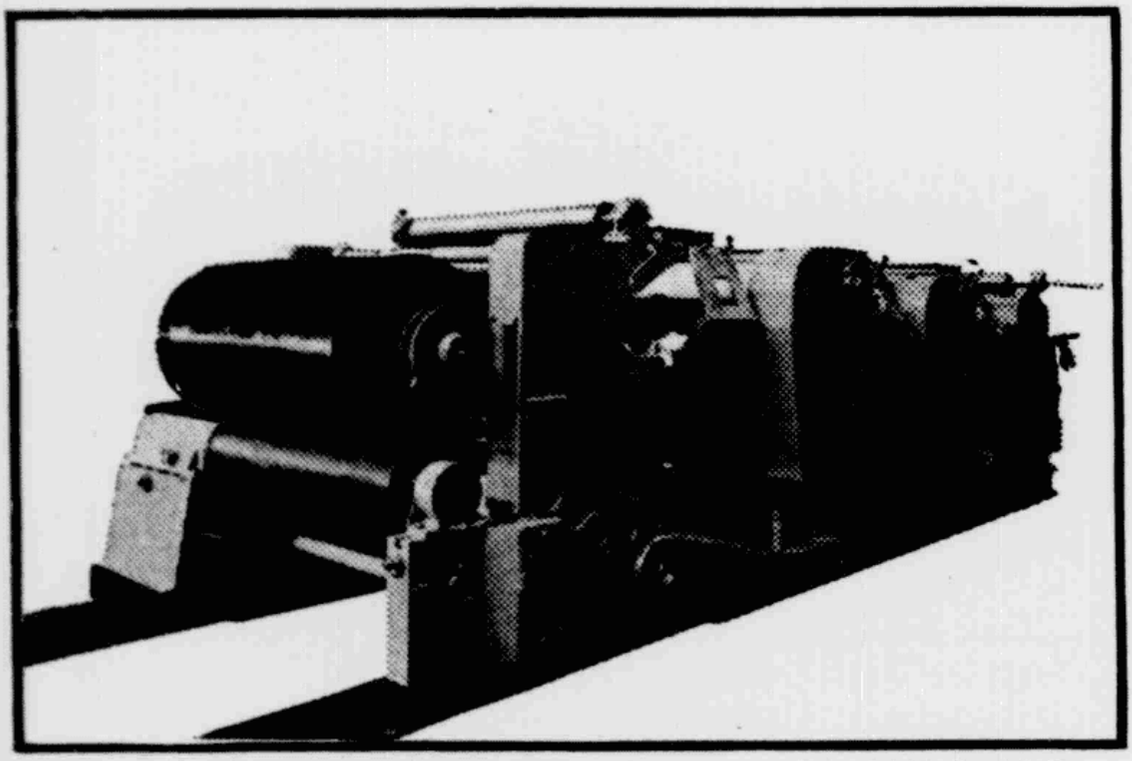
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asbestos cement *plants*





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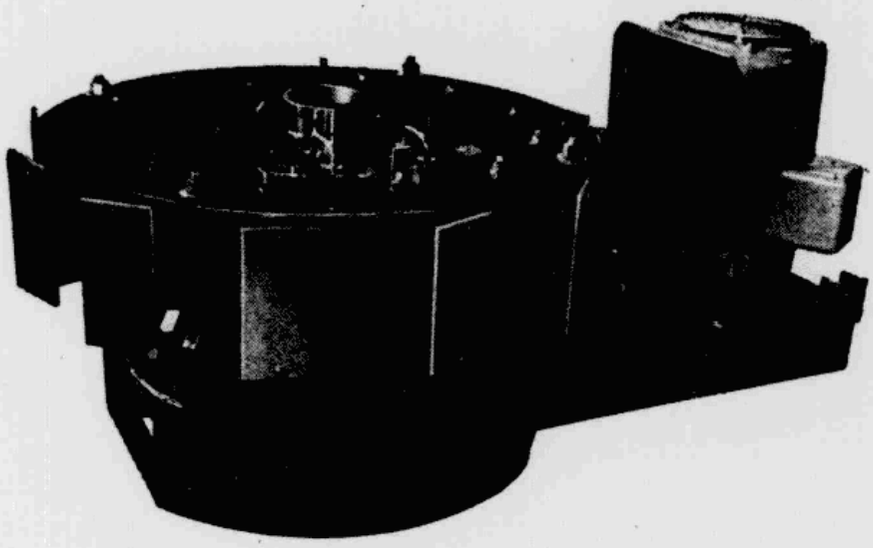
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Asbestos Magazine, 1969, May 1969
ACL Doc 12625 · Page 40 of 59
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INDUSTRY NEWS

HAPPY BIRTHDAY

R. M. Bateman, Chairman, Turner & Newall Limited, Manchester, England, May 15.

W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.

J. R. M. Hutcheson, Operations Manager, Asbestos Fibre Division, Canadian Johns-Manville Co., Ltd. Asbestos, P.Q., Canada, May 17.

John J. Dempsey, President, Armor Products, Inc., New York City, May 18.

L. O. Montpetit, Assistant to the President, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, May 19.

Kurt Schwarz, Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.

M. L. Trepanier, Plant Manager, King-Beaver Mine, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, May 19.

R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.

J. A. Goodwin, Manager, Coalinga Asbestos Company, Coalinga, California, May 21.

John R. Owens, Managing Director, Cape Asbestos Fibres Limited, London, England, May 21.

E. Gaskell, Managing Director, Cape Insulation Limited, London, England, May 22.

Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.

Paul A. Benke, Vice President & General Manager, Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, May 27.

A. J. McMullen, President, Garlock Inc., Palmyra, New York, May 27.

Henry N. Bates, Vice President for Administrative Services, Johns-Manville Corporation, New York City, May 28.

Kenneth M. Eden, Assistant to the President, Nicolet Industries, Inc., New York City, May 28.

Edward C. Koch, Vice President, Orangeburg Manufacturing Company, division of The Flintkote Company, Orangeburg, New York, May 28.

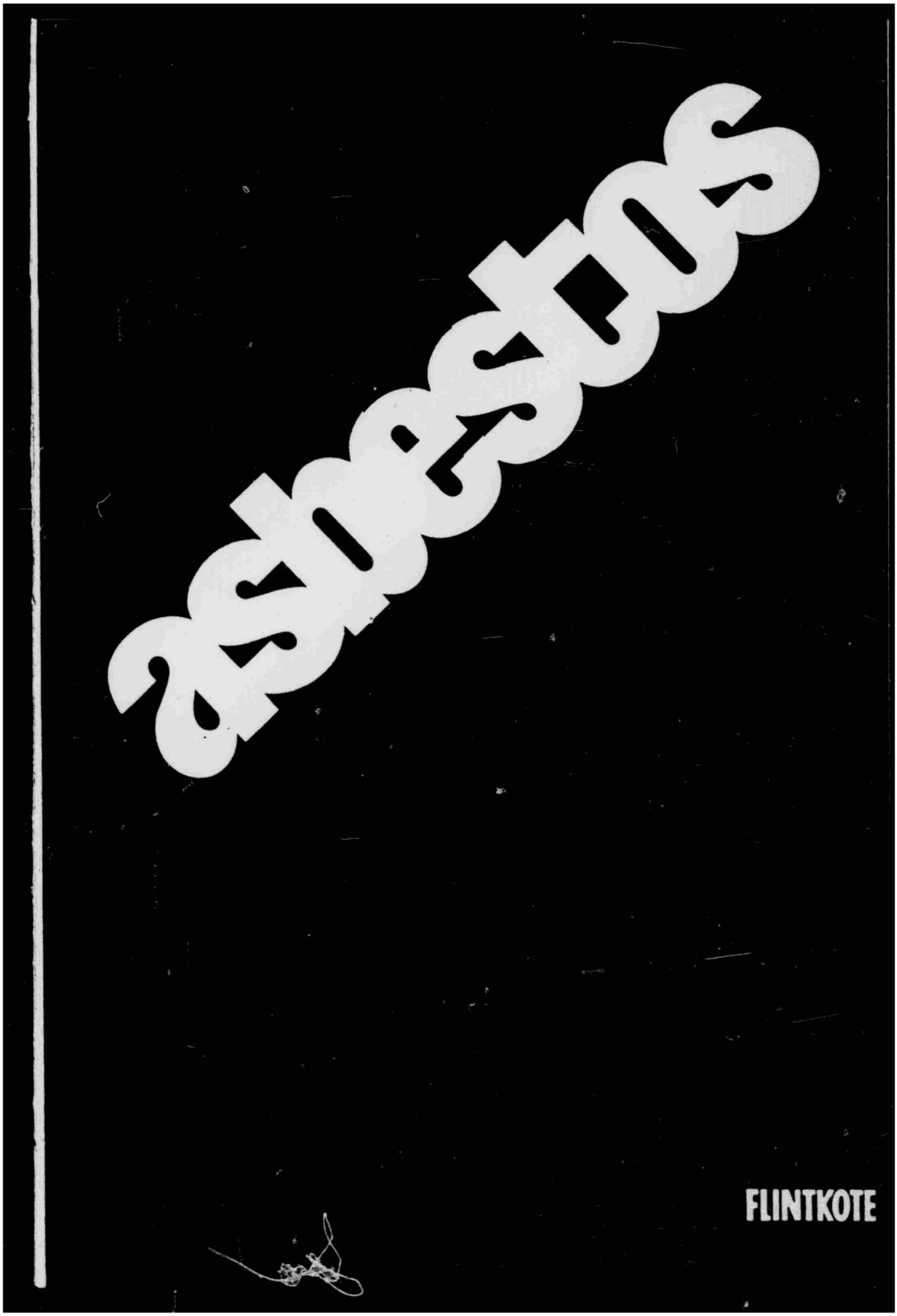
Lionel C. Piuze, Vice President, Lake Asbestos of Quebec Limited, Black Lake, P.Q., Canada, May 30.

Frederick A. Wagner, Vice President - Administration, National Gypsum Company, Buffalo, New York, May 30.

Charles M. Wiley, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, June 1.

Byron M. Snyder, Sales Manager, Pacific Asbestos Corporation, San Francisco, California, June 2.

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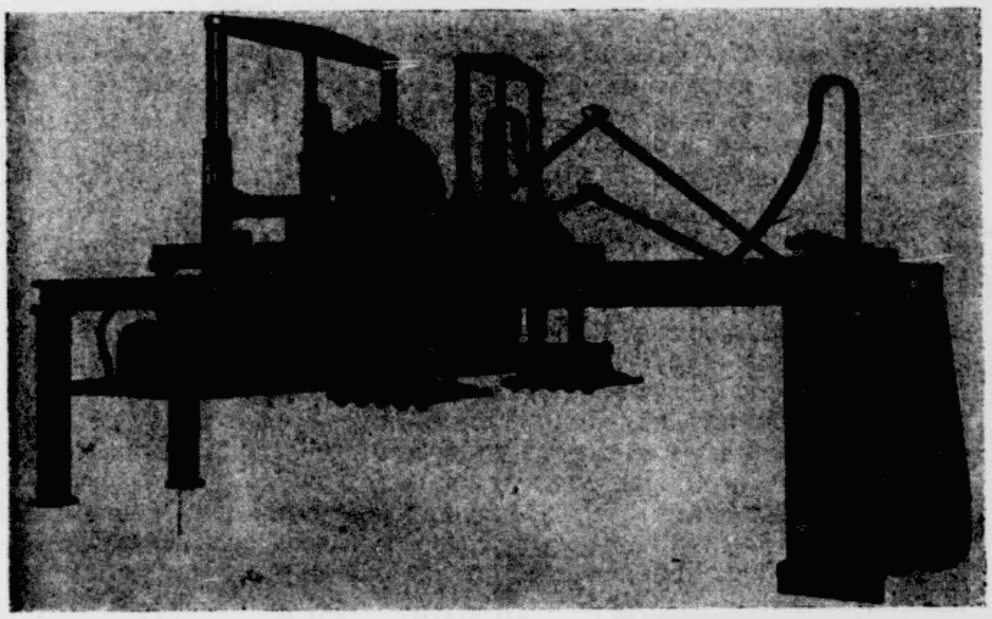
Bert I. Bertelsen, Manager, Industrial Products Division, GAF Corporation, Staffordville, Connecticut, June 3.
Harold F. Plate, Sales Manager, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 3.
Gordon C. Scowcroft, Vice-Chairman of the Board, Carey-Canadian Mines Limited, East Broughton Station, P.Q., Canada, June 3.
John C. Heid, Jr., Director, Manpower Development, GAF Corporation, New York City, June 4.
F. O. Schweizer, Director, Vice President & General Manager of Building and Industry Products Operations, Armstrong Cork Company, Lancaster, Pennsylvania, June 4.
Charles L. Sell, Purchasing Manager for Building, Industrial & Flooring Products, Corporate Purchasing Department, GAF Corporation, New York City, June 4.
W. T. Kelly, Jr., Chairman & Chief Executive Officer, Abex Corporation, New York City, June 5.
Marvin Pekovsky, Sales Promotion Manager, Floor Products Division, GAF Corporation, New York City, June 5.
Yvan Couture, Director of Public Relations, Canadian Johns-Manville Company Limited, Asbestos, P.Q., Canada, June 6.
Leonard B. Farrell, Assistant Director of Corporate Personnel, GAF Corporation, New York City, June 6.
Murray F. MacDonald, General Merchandising Manager, Building & Flooring Materials Divisions, Johns-Manville Corporation, New York City, June 6.
Joseph N. Yorke, Vice President - Finance, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, June 6.
M. A. F. Newton, Director, The Cape Asbestos Company Limited, London, England, June 7.
Herbert Morton Ball, Vice President, General Counsel & Secretary, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Director - Market Services, GAF Corporation, New York City, June 9.
W. B. Evans, Vice President - Marketing, Philip Carey Corporation, Cincinnati, Ohio, June 10.
G. S. Sutcliffe, Deputy Chairman, Turner & Newall Limited, Manchester, England, June 12.
A. H. Bagenstose, Vice President - Sales, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 14.
A. C. Caron, General Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, B.C., Canada, June 14.

Canada's Mineral Production 1968 (Catalog No. 26-202, 25c) has been prepared by the *Dominion Bureau of Statistics,* Ottawa, Canada. According to this annual preliminary estimate, mineral production in 1968 was valued at $4,740,922,732, 7.77% over the 1967 value of $4,398,938,803. In 1968, the value of non-metallic minerals produced was $464,334,935 and structural materials were valued at $444,406,602. Asbestos production reached 1,596,011 short tons, with a value of $190,068,054. The figures for 1967 were 1,452,104 tons, valued at $165,118,786.

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NOTES FROM 1968 ANNUAL REPORTS

NATIONAL GYPSUM COMPANY

Consolidated net sales in 1968 of $316,660,000 were up from $289,800,000 in 1967. Net income totaled $20,423,000 or $2.74 per share on average shares outstanding of 7,299,511. This favorably compares with income for the previous year of $17,774,000 or $2.36 per share on the average shares of 7,343,498 then outstanding. Property, plant and equipment in 1968, based on cost, were valued at $457,704,000, and working capital increased from $118,687,000 to $156,122,000.

As partially indicated by the relatively substantial rise in sales and earnings, 1968 was an eventful and good year for National Gypsum. Events contributing to the improved performance include continued effective cost controls, the acquisitions of Multicolor Corporation and Binswanger Glass Company, changes in organizational structure and personnel, further modernization and automation of manufacturing facilities, development and introduction of new products, improved quality and growth in market demand for various product lines, and expanded and new customer services. The company began construction of a new paper mill in Milton, Pennsylvania, to produce gypsum linerboard paper, installed a new calcimatic lime kiln at Gibsonburg, Ohio, and opened a new quarry at the Fort Dodge, Iowa, gypsum plant. The paper mill at Newburgh, New York, and National's paint business and three paint plants were sold during the year.

A pressing socio-economic problem facing our country is the challenge of providing safe and desirable housing at a purchase price attractive to low-to-moderate income families. National Gypsum's core-area pilot project in Columbus, Ohio — TownHomes, Inc. — established that dilapidated but structurally sound dwellings can be rehabilitated and profitably sold in the $11,000 to $14,000 price range. Documented results of this program have been publicly shared to encourage private enterprise to undertake such rehabilitation projects in metropolitan centers throughout the nation.

Due to the afore-mentioned events plus other developments such as the installation of air and water pollution abatement systems, participation in a builder-developer financing program, and a computerized order entry system, National Gypsum believes it is better equipped to participate to a greater extent in the construction industry of the next decade.

CASSIAR ASBESTOS CORPORATION LIMITED

The profit from operations was $11,794,325 before providing for depreciation, waste removal, other write-offs, and income taxes, leaving a net profit for the year of $4,277,392 as compared to $4,175,185 in 1967. Total current assets were valued at $11,105,946. Fiber sales achieved a new record of 124,728 tons, with a value of $27,119,821.

At the Clinton Mine, $3,297,777 was expended on capital account for plant and equipment and $2,196,969 for preproduction expense, including waste removal. Equipment renewal and waste removal at the Cassiar Mine cost $470,133 and $2,307,866, respectively. At White-

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horse and North Vancouver, $589,080 was spent on buildings and equipment.

At the Cassiar Mine, 741,651 tons of ore were mined, and after treatment at the rock rejection plant, 482,583 tons of concentrate and 106,074 tons of untreated ore were delivered to the mill. The mill treated 576,040 tons of ore and concentrate and produced 75,742 tons of fiber. Some additional equipment was installed to improve the recovery of the spinning grades. There was a marked reduction in the turnover of labor and it is felt that the company's training program, in addition to improving work standards, played a significant part in this reduction.

A great deal of operating time was lost at the Clinton Mine during the first half of 1968 due to start-up problems, many of which were associated with the extremely cold temperatures. During the last six months, the plant operated very efficiently and costs approximated those budgeted. In 1968, 1,056,633 tons of ore were mined and 709,003 tons of concentrated mill feed were produced. The mill treated 711,067 tons of concentrate and produced 64,279 tons of fiber. Additional equipment will be added to the mill to improve recovery and quality control. Some experimental work is being done to determine the feasibility of producing a limited quantity of spinning fiber.

The mechanized handling of one ton units at the Asbestos Wharf, introduced in 1967, made it possible to warehouse and ship much higher tonnages through the same facilities. Experiments are being conducted jointly with shipping companies and customers in various parts of the world to further improve the methods of handling fiber shipments.

Detailed exploration was carried out in selected areas of Northern British Columbia and the Yukon Territory but no showings of economic interest were found. This is a long term exploration program and will be continued on a somewhat expanded scale in 1969.

ASBESTOS CORPORATION LIMITED

Net income for the year 1968 was $4,873,741 compared with the 1967 figure of $4,120,159. Net earnings applicable to the common shares came to $4,626,241 or $1.79 per share on the 2,582,850 common shares outstanding. This compares with $3,872,659 or $1.50 per share on the shares outstanding at the end of 1967.

At $43,631,836, sales were at an all time high and 11.2% ahead of last year. The Continental European market, one of the most important for the company, was well ahead of 1967. Sales to the United States, Latin America and Japan also improved over the previous year.

Although all mines operated at close to capacity throughout the year, overall production of asbestos fiber was off some 5% from 1967. This was almost entirely attributable to a decline in the yield from ore milled. The situation is expected to improve as the present yield is below the average recovery from known ore reserves.

In order to improve productivity and lower the cost of open pit mining operations, 23 new 45-ton capacity diesel trucks were purchased and put into operation.

During the year, a long term major program for the improvement

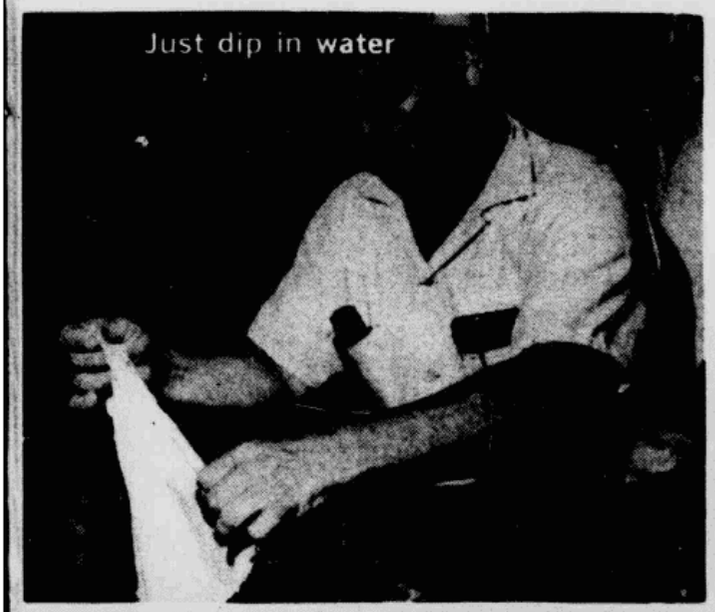
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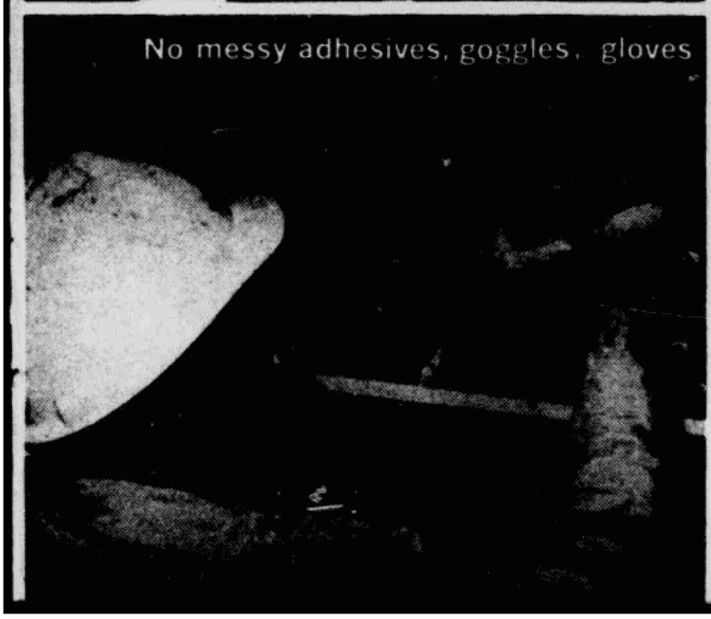
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and standardization of maintenance systems, procedures and practices was initiated at all mines. Work commenced at the King-Beaver Mine on the construction of a new ore preparation plant scheduled for operation by September 1, 1969. Concurrently, a new underground crushing station at the King-Beaver No. 3 Shaft is being built to handle all the ore from underground operations and is expected to be completed in May 1969.

During 1968, bulk sampling, reappraisal studies and design of facilities capable of initially producing and shipping concentrates yielding 50,000 tons of asbestos per annum were completed at the Asbestos Hill Project in Ungava. Estimates of the capital cost of bringing the property into production on this scale are currently being developed. Expenditures in 1968 were $162,892.

The amount expended during the year in connection with the development of the Penhale ore body was $117,157. The existence of this ore body, near the Normandie Mine, has already been indicated by diamond drilling at depth, but the extent and value of the deposit must be confirmed by underground development before final plans for the scale of production can be made.

Ore reserves at year end were 153,911,000 tons. In addition, in the Thetford area there are 41,990,000 tons classified as probable ore and a further 56,500,000 tons of possible ore.

Exploratory diamond drilling for the year amounted to 23,866 feet.

UNITED ASBESTOS CORPORATION LIMITED

Net income for the year 1968 was $1,109,035 with a net income per share of 22.4c. The corresponding figures for 1967 are $1,474,081 and 29.8c.

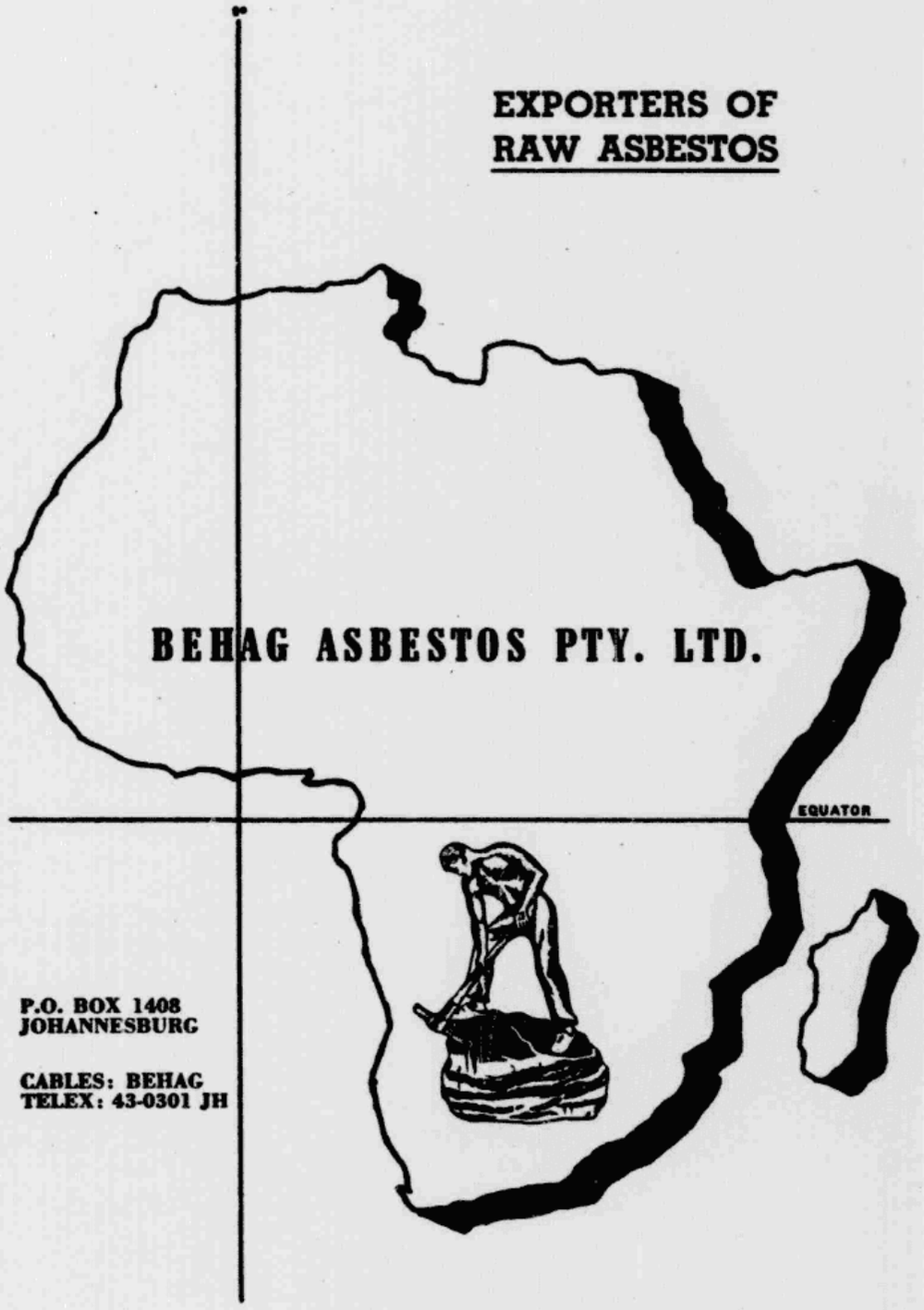
Following the company's policy to concentrate on mining developments, United Asbestos sold its principal interest in the concrete products industries, namely General Concrete Limited, for $1,600,600.

During 1968, the joint venture operation with Lake Asbestos of Quebec Limited established new records in both production and sales of asbestos fiber. Production amounted to 123,672 tons with sales of 145,254 tons representing increases of 2.5% and 16.8%, respectively, over 1967. A total of 14,428,000 tons of ore, waste and overburden was handled and the mill treated a record 2,452,000 tons of ore after discarding 1,559,000 tons of waste during concentration. During the third quarter of the year, work was completed on the removal of overburden in the north end of the "B" pit.

In a joint venture with Terra Nova Explorations Limited in the Granduc area of British Columbia, the results of the 1968 diamond drilling program were below expectations and the option was terminated. In East Africa, a bid for a mining lease to investigate Carbonatites was unsuccessful. United Asbestos has a ¼ interest in a project investigating a large magnetic anomaly in the Township of Arago, Quebec. On the 17 claims owned by Carey-Canadian Mines Limited, a large bore diamond drill hole to a depth of 2,000 feet failed to account for the anomaly.

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PERSONNEL NEWS

THE BAUER BROS. CO.

Roger J. Showalin, in addition to his duties as Executive Vice President, will become Director of Administration and will head the company's customer service groups. *Robert R. Rizer* has been named Vice President of Sales and Marketing and will direct and coordinate market research, sales programs, communications, advertising and related marketing activities for Bauer's complete line of products. *Robert J. Pielsticker* has been appointed Director of Manufacturing and will be responsible for the manufacturing activities of The Bauer Bros. Co. and its subsidiary company, Bauer Bros. Co. (Canada) Ltd. *Raymond L. Leask* has filled the new position of Research Director and will be in charge of expanded laboratory facilities and research projects. *Paul R. Ulliman,* Secretary-Treasurer, has been given additional responsibilities as Administrative Assistant to the President. *Lee Eberhardt,* long associated with Bauer's international operations, will assume the added responsibilities of investigating new products and new processes. *Ronald P. Rowand,* former Senior Sales Engineer, will move into the production area and will serve as Assistant to the Director of Manufacturing. *Edward L. Farrell* will leave his present position of Senior Service Specialist to become Manager of Plate Development and will be responsible for development and service of plates used in industrial and pulp processing machinery.

JOHNS-MANVILLE INTERNATIONAL

Richard S. Werner has been promoted to the position of Area Manager, Australasia, Johns-Manville Australasia Pty. Ltd., and will coordinate sales activity. *Howard G. Oldfield,* formerly with Canadian Johns-Manville, will replace Mr. Werner as Resident Sales Engineer, Australia. *M. H. Mottier* has been transferred to Hong Kong and will be occupied in servicing and arranging for licensees in the Far East as well as engaging in asbestos fiber sales.

RAYBESTOS-MANHATTAN, INC.

R/M stockholders elected the following four new members to the Board of Directors at the annual meeting April 1, 1969: *David F. Calliari,* Treasurer and Chief Financial Officer of R/M; *John G. Rohrbach,* Assistant Vice President for Financial Affairs of the University of Connecticut; *Richard A. Stark,* Partner with the law firm of Milbank, Tweed, Hadley and McCloy, New York City; and *C. Paul Myers, Jr.,* President of KD Manufacturing Company, Lancaster, Pennsylvania.

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ASBESTOS STOCK QUOTATIONS

Close—April 25, 1969

Abitibi Asbestos	*$7.00	G-Alden (pfd. 3.15)	103¼
Advocate	*$3.30	G-Alden (pfd. 3)	91
Asarco	38⅛	G-Alden (pfd. 2.25)	48
Armstrong Cork	78⅜	Grace	35
Am. Cork (pfd. 3.75)	64½	Gulf & Western	28¾
Asbestos Corp.	*$23.50	G&W (pfd. 1.75)	93⅛
Bendix	45⅞	G&W (pfd. 3.50)	118
Bendix (pfd. 3)	72¾	G&W (pfd. 3.87)	64½
Carlisle	25	G&W (pfd. 5.75)	71⅛
Cassiar	*$20.25	Johns-Manville	38½
Certain-teed	33⅜	Maremont	16⅜
Certain-teed (pfd. .90)	33⅜	National Gypsum	66
Conwest	*$9.05	National Gypsum (wi)	33
Flintkote	27	Natl. Gypsum (pfd. 4.50)	70
F-kote (pfd.-A 4.50)	84⅝	Patino	*$31.50
F-kote (pfd.-B 2.25)	39	Porter (pfd. 5.50)	76¼
F-kote (4-pfd. 4)	64⅛	Raybestos-Manhattan	54⅜
GAF	26¼	Unarco	12¼
GAF (pfd. 1.20)	34¼	Union Carbide	42¾
Garlock	23⅛	Uniroyal	27¾
Glen-Alden	13⅝	Uniroyal (pfd. 8)	122

*Canadian currency
wi—when issued
(Source: The Wall Street Journal)

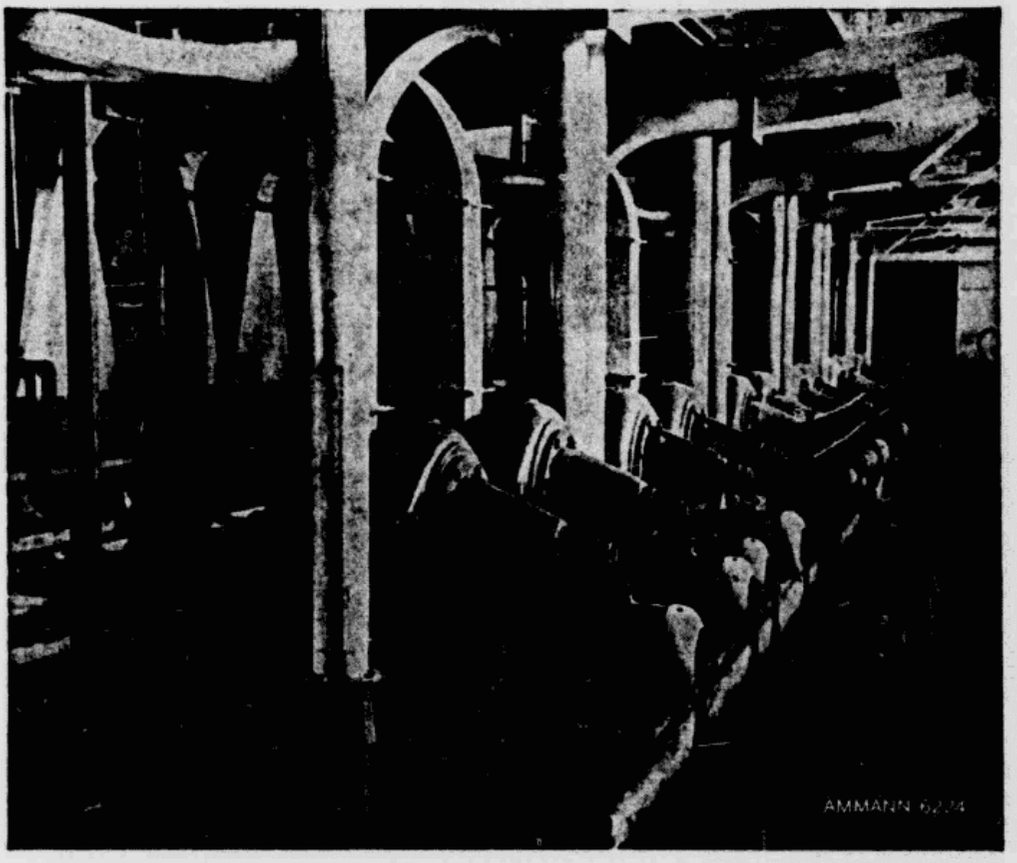
Sprayed Insulations Limited, London, England, has appointed new licensees in four countries for its Silbestos process. The company now has a total of 32 licensees, 25 of which are overseas and 8 of which are in the United Kingdom. The new appointees are *Bradford Insulation Limited,* Australia; *Potter Industries Limited,* New Zealand; *A/S Okas Isolering,* Denmark; and *Fahd & Abdulrahman Al-Jirdan,* Saudi Arabia.

ABMEX, the Association of British Mining Equipment Exporters, has issued its annual report which contains reference to a successfully executed Market Research Mission to Latin America and worthwhile participation in the British Industrial Exhibition held last year in Bucharest.

The Association's program for 1969 includes a mission to the USSR to renew contacts and increase the sale of British designed equipment in that country. ABMEX has also announced it is about to distribute the second edition of its "Buyers Guide."

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ASBESTOS PRICES

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

(As of August 1, 1968) U. S. Dollars

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

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

(As of January 1, 1969) Canadian Currency

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

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

(As of January 1, 1969) Canadian Currency

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

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

(As of January 1, 1969) U. S. Dollars

Group No. 3 (spinning & filtering)	$ 356.00 to	$ 382.00
Group No. 4 (shingle fiber)	195.00 to	331.00
Group No. 5 (paper fiber)	141.00 to	165.00
Group No. 6 (waste, stucco or plaster)	..	102.00
Group No. 7 (shorts & floats)	47.00 to	85.00

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ASBESTOS PATENTS

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

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

U.S. Patents issued from March 11 through April 8, 1969.

3,433,743—Lubricating Grease Containing Collodial Asbestos, A. J. Morway & A. J. Bodner (assigned to Esso Research & Engineering Company, a corporation of Delaware), March 18, 1969.

3,434,917—Preparation of Vermiculite Paper, J. W. Kraus & F. R. Hurley (assigned to W. R. Grace & Company, New York City), March 25, 1969.

3,437,546—Spiral-Wound Disc Friction Element and Method of Making Same, F. Lombardy (assigned to Johns-Manville Corporation, New York City), April 8, 1969.

3,437,593—Antiseize Sealing Compound, P. N. Bellavin, April 8, 1969.



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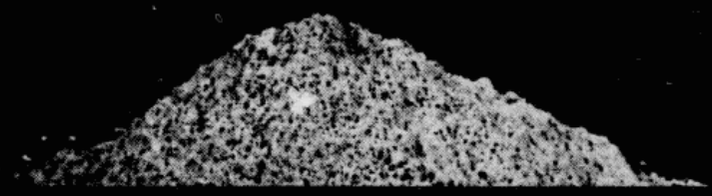
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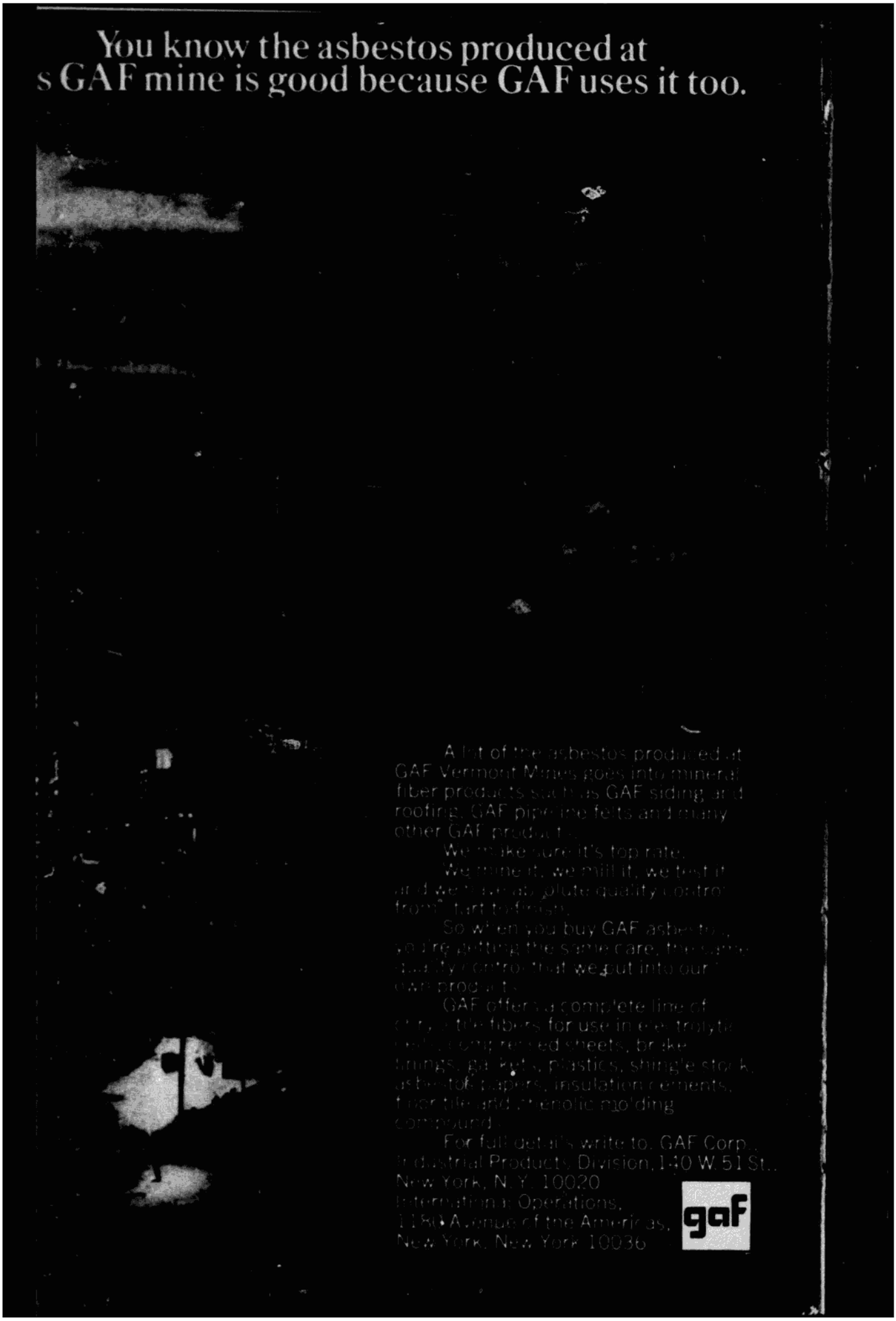
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Brooklyn ..... Empire Ace Insul. Mfg. Co.	Mobile ..... Thompson-Hayward Chem. Co.
Buffalo ..... Commercial Chemicals, Inc.	Montgomery, Ala. . Thompson-Hayward Chem. Co.
Chicago ..... Chicago Firebrick Co.	New Orleans ..... Thompson-Hayward Chem. Co.
Cleveland ..... Donald McKay Smith, Inc.	Oklahoma City .... Thompson-Hayward Chem. Co.
Dallas ..... Thompson-Hayward Chem. Co.	Omaha ..... Thompson-Hayward Chem. Co.
Davenport, Iowa... Thompson-Hayward Chem. Co.	Philadelphia ..... R. Peltz Co.
Denver ..... Plateau Supply Co.	Pittsburgh ..... McCann-Shields Paint Co.
Des Moines ..... Thompson-Hayward Chem. Co.	Shreveport ..... Thompson-Hayward Chem. Co.
Detroit ..... A. E. Fleming Co.	St. Louis ..... Thompson-Hayward Chem. Co.
Garwood, N. J. ..... Asbestos Corp. of America	San Francisco ..... E. S. Browning Co.
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