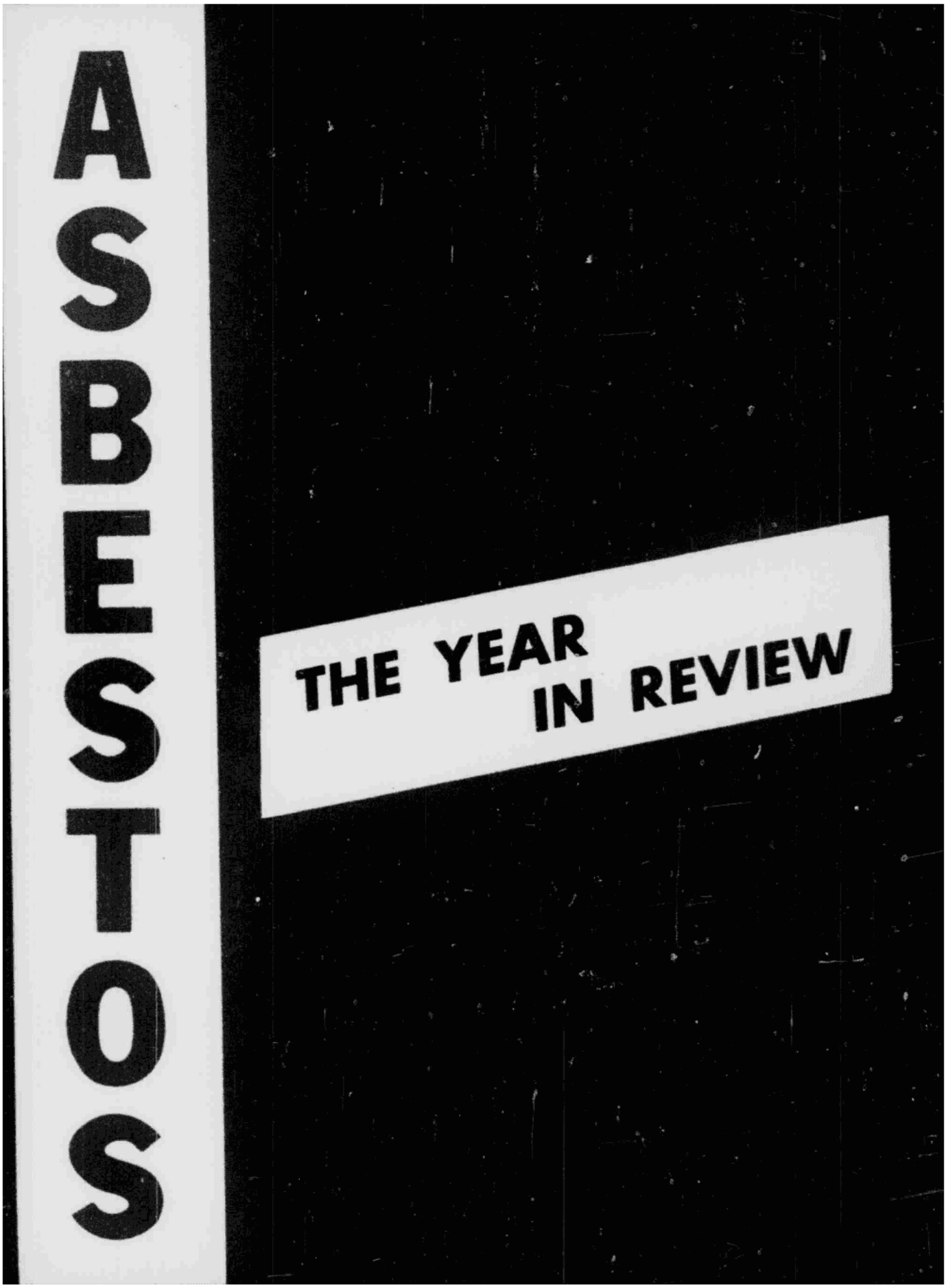
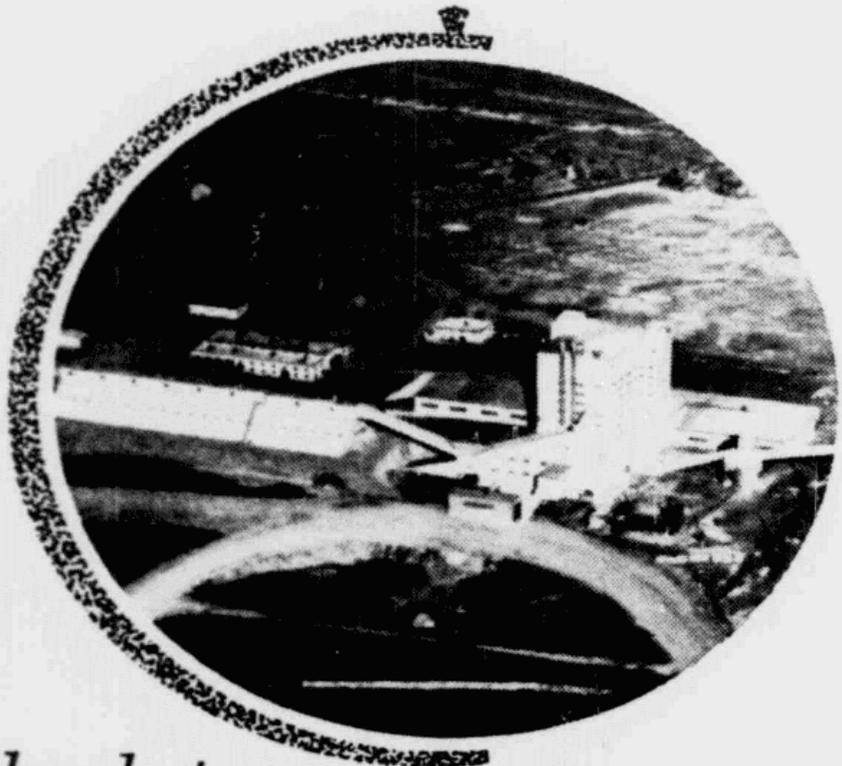


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ASBESTOS

VOLUME 51 DECEMBER 1969 NUMBER 6

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

CONTENTS

1969 — THE YEAR IN REVIEW 2
GREETINGS FROM ASBESTOS MAGAZINE 3
R/M PURCHASES TEXTILE PLANT 44
AUTOMOBILE SALES 48
PRODUCTION — IMPORTS — EXPORTS 50
INDUSTRY NEWS 54
ASBESTOS PRICES 56
ASBESTOS STOCK QUOTATIONS 57
ASBESTOS PATENTS 58
ADVERTISERS IN ASBESTOS — 1969 60
TOPICAL INDEX OF MAIN ARTICLES — 1969 62
REMEMBER WHEN? 64

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Asbestos Magazine, 1969, December 1969
ACL Doc 12632 · Page 3 of 69
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1969 — THE YEAR IN REVIEW

This is the condensed story of the Asbestos Industry in 1969 as recorded in the pages of ASBESTOS. The year has been an extremely active and progressive one, especially in the areas of mergers between companies, expansions of production facilities, development of mining properties and significant efforts in the field of industrial health.

The Review is limited to items of most significance to the Industry and no attempt has been made to include statistical data and similar information which is normally published on a regular monthly basis. Such information can be readily located by leafing through the year's issues of ASBESTOS.

We have noted a great increase in response from the readers of ASBESTOS. There have been many more requests for the numerous publications listed in the magazine and many inquiries for other information. We hope this indicates that ASBESTOS continues to "keep up with the times" and that the Industry considers it a reliable information center.

As always, we solicit the criticism and suggestions of our readers to the end that information of more value may be included in future issues and items of limited interest may be eliminated. Please feel free to express your ideas to us at any time.

The following pages contain a record, in catalog style, of happenings within the Asbestos Industry during the year.

ANNIVERSARIES

May 24, 1969, marked the 50th Anniversary of *"Tropag" Oscar H. Ritter K.G.*, Hamburg, Germany. 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 and acts as German sales representative for a number of foreign concerns.

One-hundred years ago, in 1869, *Buffalo Wire Works Company, Inc.* started business as a small sieve manufacturer Now, a century later, the company is a leading manufacturer of industrial wire cloth.

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GREETINGS

The year 1969 has been one of paradoxes—a year of great triumph as man first landed on the Moon and returned safely to Earth—a year of great sorrow as the conflict in Vietnam and frictions between nations in other parts of the world continued, with little hope of early resolution—a year of financial crises within many nations and on an international scale—a year of political unrest as student and minority groups in many countries registered mounting protests against "the establishment."

Despite the many uncertainties which seem to surround us, it is our pleasure and privilege to acknowledge the continuing and unfailing support which readers, advertisers and other friends of ASBESTOS have given us during the past year.

At this time we can only look to the future with the hope the New Year will bring peace and understanding to the world and great joy and prosperity to all.

We sincerely wish you a Happy Holiday Season and every success during 1970.

Your Publisher & Editor

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On November 16, 1944, the *Asbestos Textile Institute* was formed as a voluntary, non-profit, unincorporated organization designed to render service to manufacturers, to the trade and to users of asbestos textiles. Now 25 years old, the Institute has been extended in scope and has proven to be a most valuable adjunct to the asbestos textile industry.

The July 1969 issue of ASBESTOS commemorated the magazine's 50 years of service to the international Asbestos Industry. It was a very special issue containing congratulatory comments from leaders and elder statesmen of the Industry. The magazine also printed a brief history of its founding and restated its function, purpose and policy. Those who have mislaid their Anniversary Issue or would like an additional copy for their permanent files are invited to order same from this office. Extra copies were printed specifically for this purpose. Beginning with the July edition, ASBESTOS has had a "Remember When?" section. The brief "squibs" listed in the new section will bring fond recollections to the elder statesmen and, hopefully, over the years, will be a useful source of information on the history of the Industry.

MERGERS, ACQUISITIONS, AGREEMENTS & OFFERS

Companies continue to be actively engaged in merging with or acquiring other firms or participating in joint ventures with corporations in related fields of interest.

Abex Corporation and *Illinois Central Industries, Inc.* completed their merger.

Albany Felt Company agreed in principle to acquire two subsidiaries of *Outagamie Corporation,* Appleton. Wisconsin —Appleton Wire Works Corporation and International Wire Works.

Armstrong Cork Company sold its subsidiary AC and S. Inc. to *North Lime Corporation* on August 1st.

The Cape Asbestos Company Limited was acquired by *Charter Consolidated Limited* and is now a subsidiary of Charter. This strengthening of the ties between the two firms provides a channel for the development, through Cape Asbestos, of Charter's industrial interests and facilitates the expansion of activities in both groups.

Cape Asbestos offered to acquire the whole of the issued share capital of *Trist Draper Limited,* the holding company of a group of firms engaged in the manufacture and sale of

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Apartado 5649, Caracas

Asbestos Magazine, 1969, December 1969
ACL Doc 12632 · Page 7 of 69
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"Top-Dog" brake and clutch linings and automatic transmission components.

Subject to contract, *Powell Duffryn Limited* will sell, to *Cape Asbestos,* the business and assets of Powell Duffryn Timber Industries Limited which involves Powell's board-mill activities at Queensferry, Flintshire, England.

Philip Carey Corporation acquired *Smith and Kansler Company* from the Dana Corporation. The S&K product line will be expanded and output will be increased.

Certain-teed Products Corporation acquired *Kob Carpets, Inc.,* Cartersville, Georgia, thus marking its entry into the home furnishing market.

Benjamin Foster Company merged into *Amchem Products, Inc.* and is now operating as the Benjamin Foster Division.

Garlock Inc. purchased a 35% interest in *Arai Seisakusho Company Limited,* a Japanese manufacturer of oil seals and precision molded rubber products.

W. R. Grace & Company reached an agreement in principle to sell its chief shipping subsidiary, the Grace Line, to *Admiralty Enterprises, Inc.*

A merger has been completed whereby *James Hardie Asbestos Limited* has acquired the whole of *Hardie Holdings Limited.*

Johns-Manville Corporation completed its acquisition of *Crown Tuft Carpet Company,* Dalton, Georgia.

National Gypsum Company and *Binswanger Glass Company* completed their merger and Binswanger is operating as a separate subsidiary.

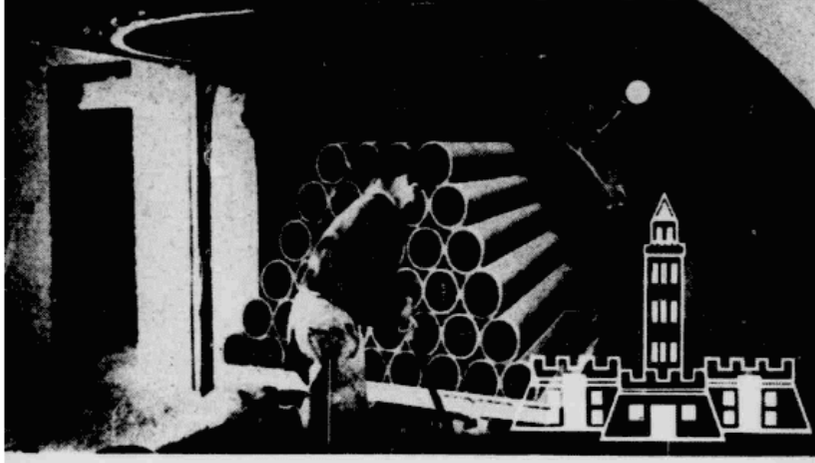
National Gypsum secured, as an investment, a common stock ownership position of 550,000 shares of *H. H. Robertson Company,* an international construction firm headquartered in Pittsburgh, Pennsylvania.

National Gypsum approved in principle the acquisition of *Hamilton of Indiana, Inc.,* a fabricator of flat glass located in Vincennes, Indiana.

H. K. Porter Company, Inc. completed its offer to purchase all of the mortgage and lien indebtedness of *Pacific Asbestos Corporation.* Pacific operates an open-pit asbestos mine and a processing mill at Copperopolis, California, and has begun operations as a subsidiary of Porter.

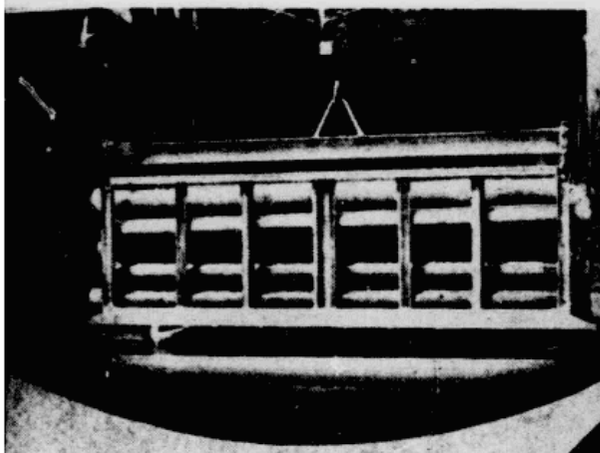
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

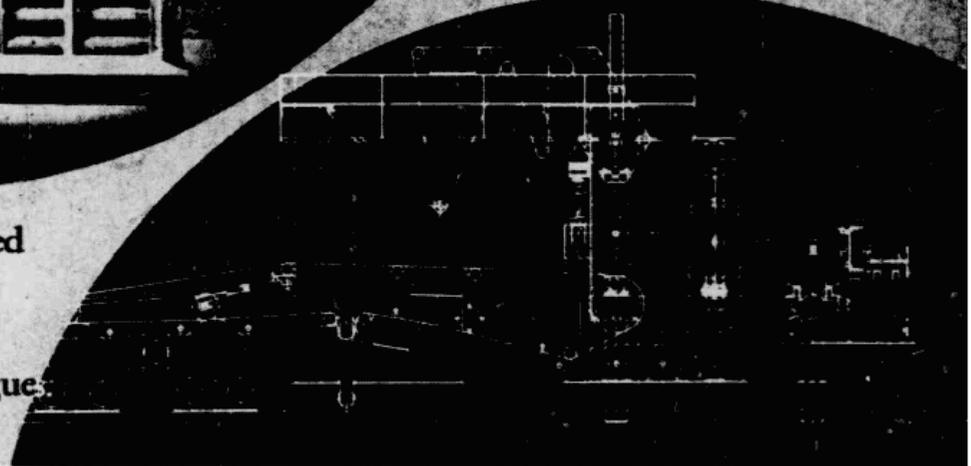


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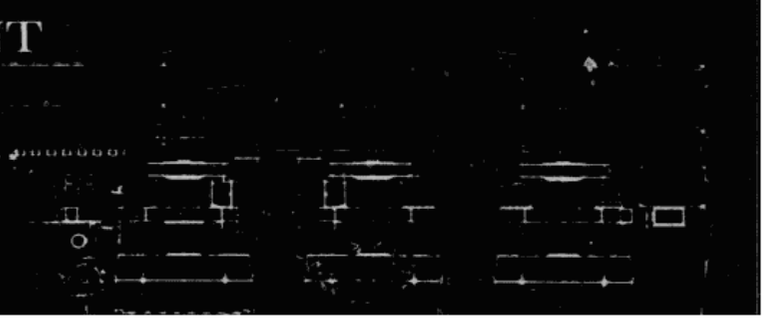


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Raybestos-Manhattan, Inc. completed the acquisition of *Milford Rivet & Machine Company,* a firm that manufactures and sells tubular and split rivets and cold-headed specialties and produces automatic rivet-setting machines.

R/M acquired *Spartan Abrasive Company, Inc.* as a wholly-owned subsidiary. Located in South Fayette Township, near Pittsburgh, Pennsylvania, Spartan is a manufacturer of grinding wheels and markets synthetic rubber wheels and cold process resinoid wheels.

R/M signed a contract with Esso Chemical Company for the purchase of *Breku Riebbelag GmbH & Company,* Radevormwald, West Germany, manufacturer of friction materials.

R/M agreed to purchase an asbestos textile plant in Marshville, North Carolina. Plans are being made to immediately expand the manufacturing facility to augment the Pennsylvania division's requirements for asbestos textiles and friction materials.

Rex Chainbelt Inc. completed its purchase of *Perfection American, Inc.,* a manufacturer of transmission, differential, timing and industrial stock gears, fractional horsepower speed reducers, clutch plates, clutch assembly parts and sprockets.

Stephens-Adamson Manufacturing Company voted to merge with *Borg-Warner Corporation.* The merger is subject to certain tax rulings from the Internal Revenue Service.

EXPANSIONS, REORGANIZATIONS & NEW CONSTRUCTION

Armstrong Cork Company is undertaking a major expansion of its production facilities for Armaflex pipe covering and sheet-type insulation materials at the factory in Braintree, Massachusetts.

Cape Asbestos Fibres Limited relocated its offices and opened a new fiber research laboratory at Uxbridge, England.

Cape Universal Building Products Limited is modernizing and consolidating its asbestos-cement manufacturing operations. The production facilities at Chalford Works, Gloucestershire, will be transferred to other manufacturing plants, primarily to the Bowburn Plant in the North East Development Area.

Certain-teed Development Corporation has been formed by Certain-teed Products Corporation for continued research

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Sao Paulo "Brasimet" Comercio e Industria S.A.

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CALIFORNIA, San Francisco
E. M. Walls Company

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CANADA, Toronto
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COLOMBIA, Barranquilla
Holanda, Colombia, S.A.

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FLORIDA, Largo
Gulf Coast Chemical Corporation

ILLINOIS, Chicago
Jensen-Souders and Assoc., Inc.

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Buffalo Solvents & Chemicals Corp.

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D. H. Litter & Co., Inc.

OHIO, Cleveland
A. C. Mueller Co., Inc.

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WASHINGTON, Seattle
Van Waters & Rogers, Inc.

LAKE ASBESTOS

ASARCO

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and testing of low-cost housing concepts and the generation of related construction opportunities in the United States.

Certain-teed Asbestos and Plastics Division formed a New Orleans Sales District to market its asbestos-cement and PVC products.

GAF Corporation agreed to purchase *Uniroyal, Inc.'s* Research Center in Wayne, New Jersey, for a central research facility. GAF expects to take occupancy in 1972 when Uniroyal completes its move to its new administrative, research, training and computer complex in Oxford, Connecticut.

Johns-Manville Corporation opened an international district office in Coral Gables, Florida, to serve southeastern United States and engineering-constructor firms engaged in overseas trade. It will also cover the Bahamas, Jamaica and Bermuda in coordination with J-M's Caribbean headquarters.

J-M International opened new offices in Sydney, Australia, under the name of Johns-Manville Australasia Pty. Limited.

J-M is investing in full-scale production facilities at Manville, New Jersey, to convert ACE (asbestos-cement extrusion) production from new product status to high volume manufacturing.

J-M has broken ground for a new manufacturing plant at Spring Place, near Dalton, Georgia, for the construction of a complete carpet manufacturing operation.

Minorex Limited is the new name of the former Asbestos Corporation (Explorations) Limited. The branch has been reorganized to reflect Asbestos Corporation Limited's broader interest in exploration for minerals other than asbestos.

Nicolet Industries, Inc. is operating a new saturating facility for pipe line felt at its Hamilton, Ohio, plant. Incorporating advanced instrumentation and remote control technology, the facility gives Nicolet the advantage of manufacturing asbestos pipe line felt from the basic product to the finished saturated material in a single, continuous operation.

Raybestos-Manhattan, Inc. established new corporate headquarters at 205 Middle Street, Bridgeport, Connecticut. Sales divisions at the new location include Asbestos Textile,

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Grey-Rock, Industrial Rubber, Mechanical Packings, Original Equipment, Raybestos, Revolite, and R/M International.

Scapa Dryers Limited, Blackburn, England, has further strengthened its overseas sales organization by opening a new wholly-owned sales company in Oslo, Norway—Scapa Norsk A/S.

The Ontario Research Foundation relocated its pilot plant facilities for ore dressing and process metallurgy studies to Sheridan Park, adjacent to the main laboratories.

INDUSTRIAL HEALTH AND SAFETY

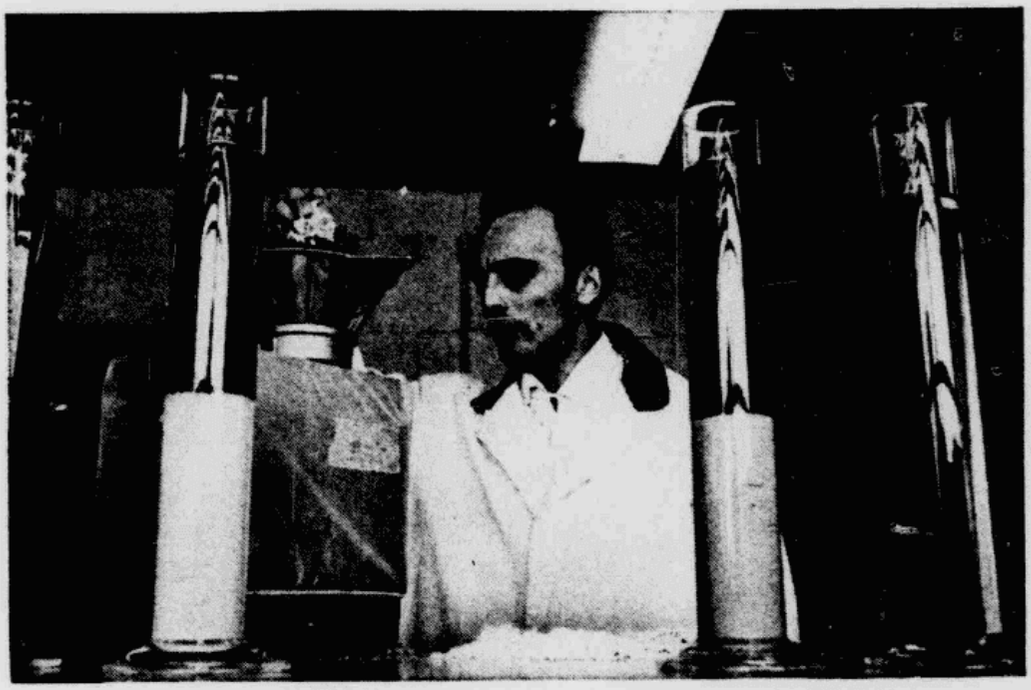
Of great impact on the future of workers in the mining, manufacturing and construction industries, as well as of the general public, will be the outcome of current endeavors to solve the problems of air, water and soil pollution.

One of the more active of such efforts is the *Insulation Industry Hygiene Research Program,* under the direction of Irving J. Selikoff, M.D., Director of the Environmental Sciences Laboratory at the Mount Sinai School of Medicine in New York City. The Program is jointly financed by Johns-Manville Corporation and the International Association of Heat and Frost Insulators and Asbestos Workers. The Sprayed Mineral Fiber Manufacturers Association is also contributing financial support and the U.S. Public Health Service is working in close cooperation with the Program. Through constant research and study, those working on the project are finding ways to improve equipment and develop techniques to more effectively protect the health of workers in the insulation and allied trades.

At a meeting of the *Middle Atlantic Insulation Contractors Association,* a program on health and safety problems was presented by the "Health Team" of the National Insulation Manufacturers Association and the Insulation Distributor-Contractors National Association.

The mineral industry health and safety functions of the *U.S. Bureau of Mines* have been reorganized to more effectively coordinate traditional programs in mine health and safety and related fields. The first Federal health and safety standards to be established for all domestic metal and nonmetal mines (other than coal mines) are being published in the Federal Register.

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Our technicians make wet screen analyses to evaluate length and distribution of fibre...viscosity tests on absorptive characteristics...measure grit content...whatever it takes to be sure the asbestos meets your exact specifications. Batch after batch.

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ASBESTOS FIBRES

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DUST CONTROL & RESPIRATORY EQUIPMENT

Aerodyne Development Corporation issued a catalog giving full dimensional and operational specifications for its line of valves used as air seals on dust collectors, for feeding dry bulk materials, for metering devices and for high abrasion applications.

American Precision Industries, Inc. has a new line of "RA" packaged dust collectors for product recovery and air pollution control.

Asbestos Corporation Limited installed an electro-static precipitator in the dryers of the King Mine plant to eliminate the emanation of dust. Similar equipment was also installed at the ore preparation and storage plant.

Dust Control Equipment Limited's self-contained unit dust collector, the DCE Unimaster, was used successfully by manufacturers of asbestos products for the efficient control of dust.

ESB Incorporated's Willson Products Division added the "7P (Paint Guard)" respirator to its respiratory protection line.

Fisher-Klosterman, Inc. featured its high efficiency XQ series of Cyclone dust collectors in Bulletin 217C.

Radiation Industries, Inc. has a new heavy-duty portable vacuum cleaner that features a unique three-stage collection system. According to Radiation, the system was engineered, designed and tested primarily for use in the Asbestos Industry.

Rite Hardware Manufacturing Company announced the addition of a disposable air-supported hood to its line of Whitecap helmet systems.

Wheelabrator Corporation issued Catalog 573-D to describe the operating details and construction features of the new Wheelabrator-Turbex wet collector and scrubber.

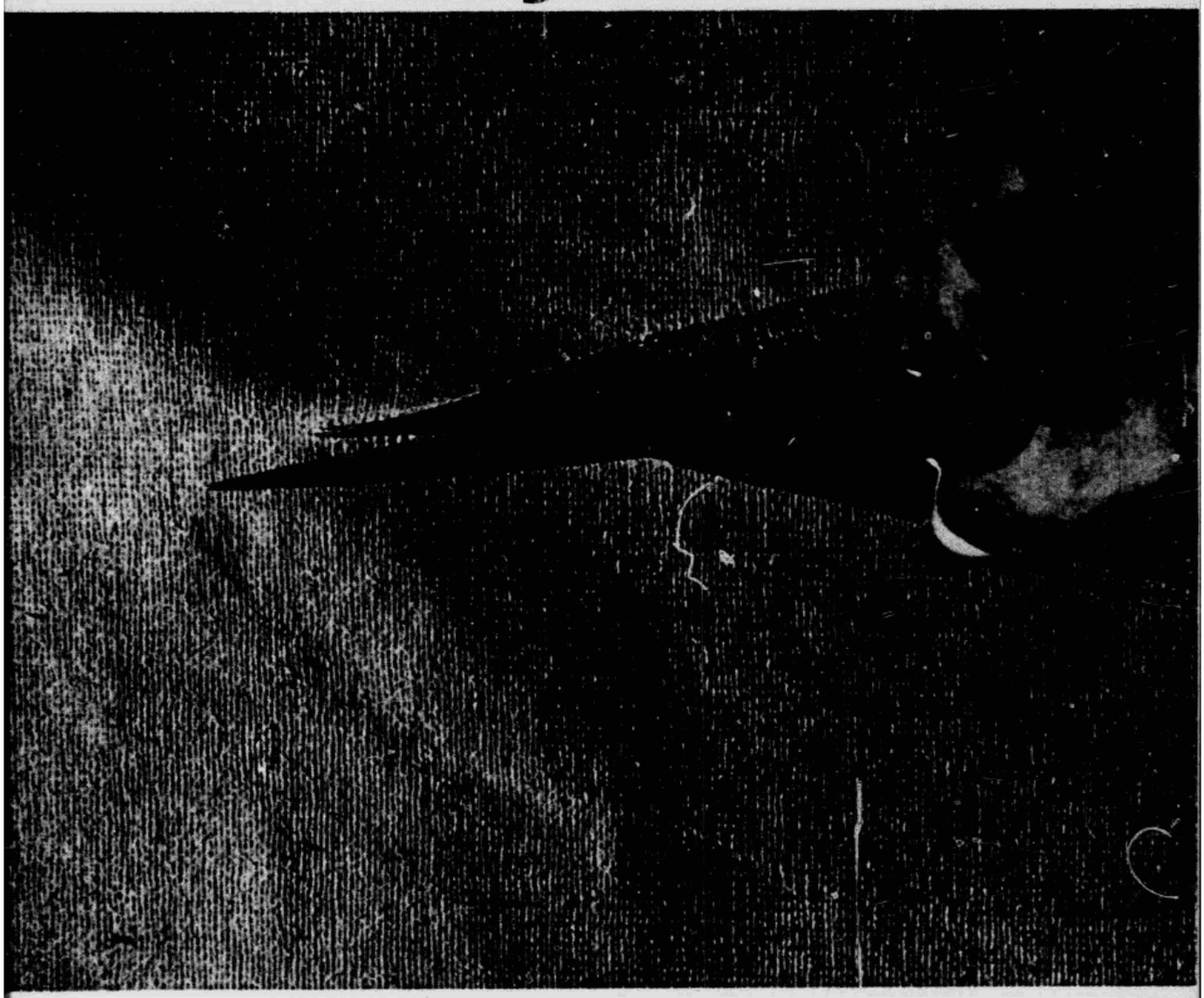
OTHER EQUIPMENT & PROCESSES

Acrison, Incorporated issued complete literature on its dry materials metering and handling equipment including data on Recipro-Pivotal Hoppers and Hopper Bottoms which, according to the company, have been used for handling short asbestos fibers.

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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.

The Bauer Bros. Co. describes the Hydrasieve in Bulletin G-40A. It is a device for dewatering and classifying low consistency slurries.

Canadian Longyear Limited designed the Canlong Oil-Fired Water Heater specifically to heat drilling fluids during cold weather operations.

T. W. Clayton (Poole) Limited announced that the portable "AG 900 Air-Electronic Gauging Unit" could be used for indication and control in the manufacture of plastics and asbestos and glass products.

D H J Industries, Inc. developed an automatic cutting machine designed to cut intricate shapes of material several inches high. DHJ advised the machine has proven satisfactory in the cutting of asbestos textiles.

Eriez Magnetics issued "Magnetic Ideas," a booklet on magnetic separation, automation and vibration equipment.

United States Railway Equipment Company has a new type of railcar called the "Dynabulk" Car, especially designed to transport cement and other fine powdered materials. The company advises it will gladly test samples at its laboratories to determine if asbetos fibers can be shipped via the new car.

Gardner-Denver Company designed and built a new type of self-contained blasthole drilling unit equipped with a heated cab to increase productivity when drilling in sub-zero temperatures.

Hampshire Equipment Corporation has a new tractor-trailer safety device designed to eliminate jackknifing accidents.

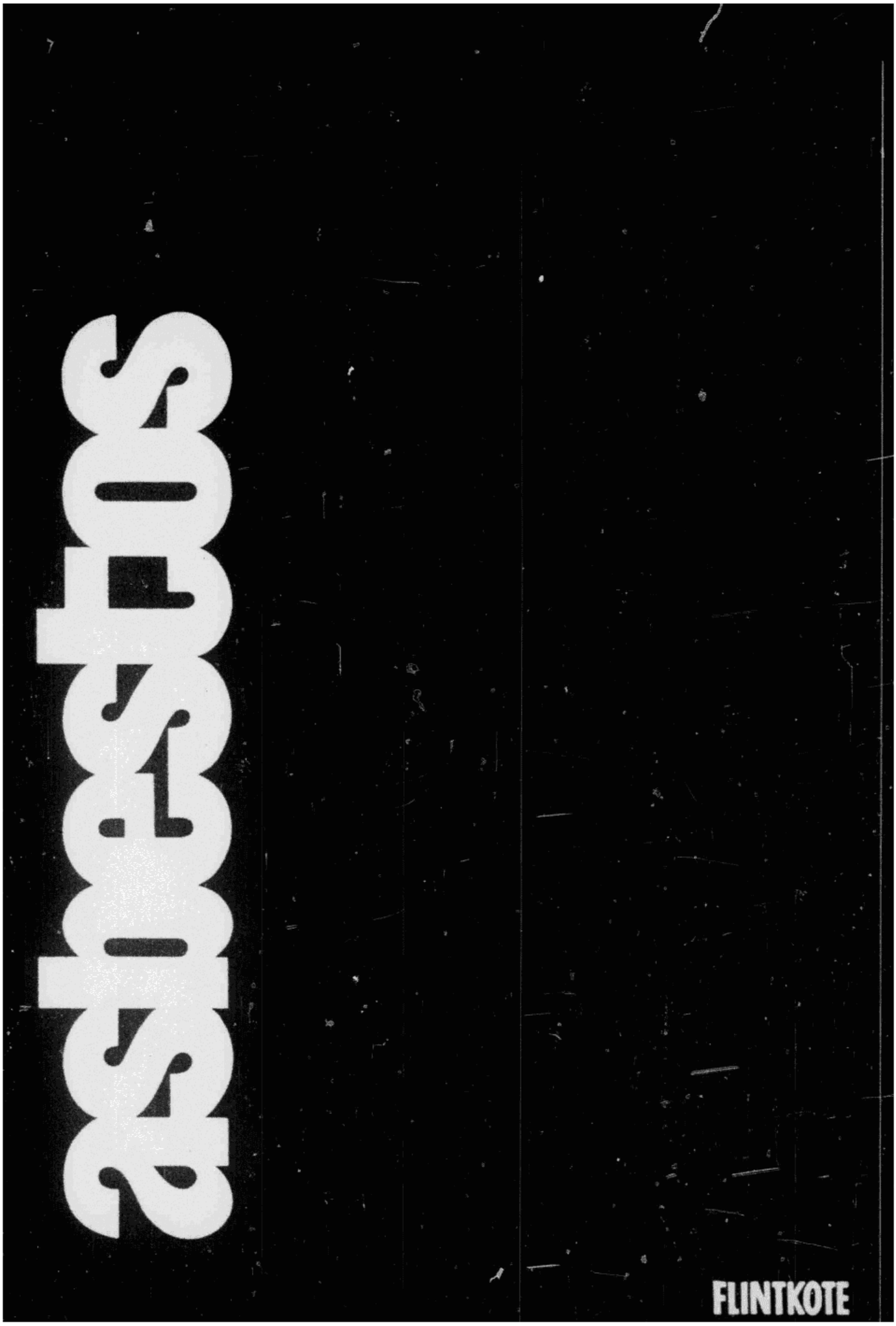
Hankison Corporation describes, in Bulletin 0200-4, its complete line of refrigerated air dryers, including three new "Refrigifilter" models.

HEC Industries, Inc. announced a peak velocity vibration measuring and recording instrument—Model SR-102 shoc-Korder.

Huntingdon Industries, Inc. offered new optional equipment on its semi-automatic palletizer for shipping products in bags. The major new feature of the equipment is an air deck where the bags float on a film of air.

Motorola Communications and Electronics, Inc's new Handie-Talkie two-way radios are said to be safe for use in hazardous atmospheres in the mining, milling, chemical, pipeline and other industries.

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asbestos
FLINTKOTE

The U.S. National Bureau of Standards developed an Extensometer System suitable for use as a laboratory strain standard at temperatures up to 1650°C.

Rapistan Incorporated describes its vibratory conveyors in Catalog 4300. The publication shows both coil spring and leaf spring models for handling a wide variety of bulk materials.

Simplicity Engineering Company's new line of Hammermills is described in Catalog HM-82 including complete design information on the 4-edge hammer assembly.

F. L. Smidth & Company offered data on its complete range of asbestos-cement production equipment and a brief summary of its manufacturing activities in a brochure entitled "Modern Asbestos-Cement Plants."

Vibra Screw Inc. is offering a free, in-plant trial of its 32 cubic foot capacity portable Test Bin Activator. Also, the company issued Bulletin CSF-2 to describe its Counter-flow Vibrating Screw Feeder.

Vibration Measurement Engineers, Inc. published literature on its Building Inspection Service giving details of how to conduct detailed inspections for determining and recording the true condition of buildings and structures in the vicinity of new construction jobs, prior to the start of such jobs.

Visi-Con annunciator monitors are part of an economical system for the centralized monitoring of production and process equipment. By giving clear, early warning of conditions needing attention, the units assist in the prevention of serious and costly damage and breakdowns of expensive machinery.

ACTIVITIES AT ASBESTOS PROPERTIES

AFGHANISTAN

An asbestos occurrence at Loe-Dakka, Nangarhar Province, was examined for its market potential but no determination has been made as yet. The asbestos is of the Chrysotile type and the property seems to contain sufficient fiber over ½" in length to justify further study.

AUSTRALIA

Hammersley Iron Pty. Limited is investigating the feasibility of reactivating the Blue asbestos mining property at

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ASBESTOS CEMENT REQUIRES EXPERIENCE

We offer that experience we got by constructing and setting operating 50 complete plants all over the world.

SLURRY PREPARATION

Automatic dosage of the asbestos mix — Pneumatic asbestos transport — Asbestos fibre processing by Kollergang — Pneumatic transport and automatic dosage of cement — Slurry preparation by turbomixer — Normal and forced feed — Hydropulper — Water recuperators.

PIPE PLANTS

3-4-5-6 mts. pipe machines — Nom. diameters 50 to 1800 mms. with fully automatic equipment — Automatic and semi-automatic loaders for pipe machines — Central control board — Pipe maturing conveyor and tunnel — Automatic lathes for asbestos-cement pipes and joints — Automatic testing presses for pipes and joints.

SHEET PLANTS

Variable speed sheet machines with 2-3-4 sieve cylinders — Automatic cutting bench and pneumatic corrugators — Stacker — Sheet maturing tunnel — Rotating and bridge type Destacker — Mould lubricator.

We are not only a consulting office but we have been constructing exclusively machines for the asbestos-cement industry for 20 years.

R. C. M.

Corso P. Colletta 85 - Tel. 23.38.23 - Cable add. ERCIEM-TORINO
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Wittenoom. The mine was closed in 1966 when it was sold to the Australian partnership of Hancock and Wright.

Pacific Asbestos Limited's asbestos property near Barraba, New South Wales, was studied by Surveyer, Nenniger & Chenevert Inc.; Watts, Griffis and McOuat; and Mr. H. C. Jessen. A two-year exploration and bulk sampling program was completed about mid-year and a final feasibility study was submitted. Pacific intends to put the property into production by May 1971. The fiber from the drill cores compares favorably with Canadian Groups 4 through 7.

CANADA

Abitibi Asbestos Mining Company Limited successfully completed the first stage of an extensive drilling and bulk sampling program on its asbestos property near Amos, Northwestern Quebec. Tests on drill core samples indicate the asbestos content falls within the cement grade fiber Groups 4, 5 and 6. One-hundred million tons of asbestos-bearing rock amenable to open-pit mining is indicated by drilling. Abitibi has a half-interest with Shields Minerals Corporation in a limited partnership which owns the property.

Asbestos Corporation Limited began work on a project to sink a 1645 foot exploration shaft into the "Penhale" asbestos orebody, situated on its Vimy Ridge property, 5 miles southwest of Thetford Mines. The project is scheduled for completion by late 1971 and its purpose is to confirm drill-indicated reserves. If developed, the mine would have a productive capacity of 8200 tons of ore per day and would be the largest underground asbestos mine in the world.

Barring a major reduction in federal government tax incentives to mining companies, indications are that *Asbestos Corporation Limited* will bring its Asbestos Hill project into production early in 1970. The orebody is located south of Deception Bay, 300 miles below the Arctic Circle and over 1200 miles due north of Montreal. Operations that would produce 100,000 tons of fiber annually, all for export, are planned. The contents of the White Paper presented early in November by the Canadian Federal Finance Minister will, of course, influence Asbestos Corporation's decision as to whether or not to proceed with the project.

The Cassiar and Clinton Mines of *Cassiar Asbestos Corporation Limited* are operating efficiently and sales are at

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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anticipated levels. Cassiar is being maintained at an annual rate of 75,000 tons of fiber. Production from the Clinton Mine increased to a rate of 90,000 tons of fiber per year.

Golden Gate Explorations Limited resumed diamond drilling on its 42-claim Rex asbestos property near Haines Junction, in the Yukon Territory.

Hedman Mines Limited announced it was constructing a new asbestos fiber processing plant at Matheson, Ontario. It is to be phased into operation as markets develop, in conjunction with a phasing out program at the existing pilot plant.

Nicolet Industries, Inc.'s mine near Warwick, Quebec, was closed on January 31st. It had been producing asbestos fiber since 1930. Nicolet continues in the asbestos manufacturing field and is filling its fiber needs via purchases from Canadian producers.

CYPRUS

Cyprus Asbestos Mines Limited continues to export the majority of fiber produced at its three mills although small amounts are utilized in its factory for the manufacture of molded goods and corrugated and flat sheets. No prospecting is currently being done as the company's known ore reserves are estimated to last for many years.

GREECE

A feasibility study was undertaken for *Hellenic Industrial Development Bank* to determine if it is economically feasible to develop an asbestos deposit in Greece. At present, the annual requirements for asbestos are filled entirely by imports.

MEXICO

Freeport Sulphur Company's wholly-owned subsidiary, Freemex, S.A., and a Mexican mining and chemical company, Metalurgica Penoles, S.A., are carrying out an exploration program in southern Mexico through Compania Minera Pegaso, S.A. Current indications are that substantial tonnages of commercial-grade asbestos fibers are present.

The Mexican Government formed a new company — *Compania Nacional de Asbestos* — to mine and process Chrysotile asbestos in the Novillo Arroyo area, near Ciudad Victoria, Tamaulinas. The company is 51% owned by the

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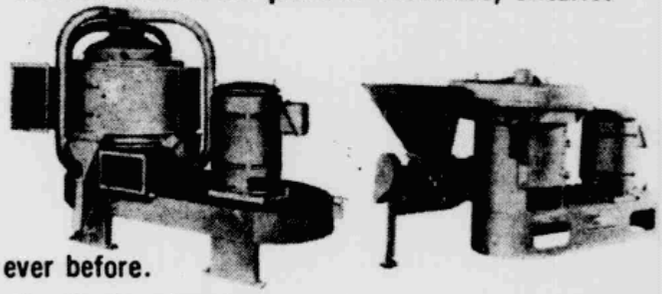
Use the Bauer one-two punch.

Want to make a better product at lower cost? Or a new, finer product for new markets? Investigate the Bauer Hurricane Pulverizer-Classifier and Centri-Sonic Classifier. This one-two combination is streamlining production, saving space, reducing labor and operating costs, and improving quality in many plants.

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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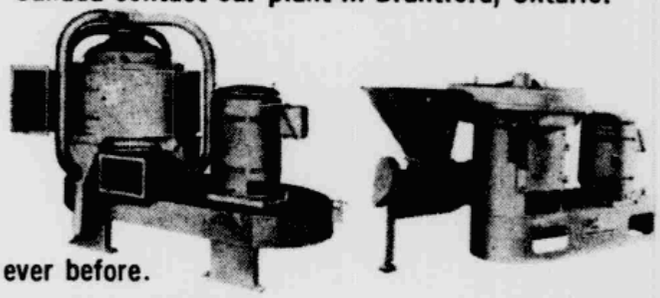
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Government of Mexico and the remainder of the equity is being offered to public and private entities entitled to participate.

SWAZILAND

Lonrho Limited has been prospecting an asbestos property at Emlembe, adjacent to Turner & Newall's Havelock Mine, to determine if it would be economically feasible to open a new asbestos mine in the area.

Investigations are being made into the practicability of processing Swaziland asbestos in the country rather than exporting it in its raw state. Research into the possible processing of asbestos is in the hands of a Portuguese firm.

YUGOSLAVIA

Four firms in Yugoslavia have started the formation of an association of asbestos producers and manufacturers to set up a joint development policy and to coordinate companies for the obtaining of raw materials, for the manufacture of products and equipment, and for systematic investigation of possibilities of joint marketing ventures.

ASBESTOS-BASED PRODUCTS

Atlas Asbestos Company, North Wales, Pennsylvania, presented a pair of asbestos "shorts" to Dr. Werner von Braun, Director of NASA's George C. Marshall Space Flight Center. The purpose of the gift was to protect Dr. von Braun when, due to pressures of his work, he often found himself in the hot seat. The shorts are manufactured from asbestos cloth, are light in weight and are capable of withstanding temperatures of over 1000°F.

GAF Corporation added "Windsor Brick" to the Ruberoid floor tile line. Windsor Brick is a vinyl-asbestos floor tile with an early American brick pattern.

Grant Wilson, Inc. announced "Air-Moist," an absorbent humidifier pad made of cellular asbestos.

Industrial Hermetic Materials, Inc. is manufacturing "Genuine Pitseal," an emergency gasketing material composed of long-strand asbestos fibers interwoven with white alloy wire containing a special imported graphite.

Johns-Manville Corporation added "Kolor-Kap and Blak-Kap Duplex Roofings" to its FGA line of roofing ma-

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terials. The new products combine glass fiber and asbestos fiber with asphalt . . . . . J-M developed the "Asbestogard Vapor Barrier System" for use with its Fesco Board roof insulation over metal decks. The components in the new system are Abestogard Felt and Asbestogard Adhesive . . . . . J-M added "Montage" and "Bouquet" to its Vinylcraft and Terraflex lines of vinyl-asbestos tile . . . . . J-M announced "Thermobestos LD," a new molded pipe fitting insulation for use with its Thermobestos pipe insulation. The new molded product reduces dust and damage resulting from cutting and handling and provides users with a Thermobestos insulation system requiring little or no field fabrication . . . . . J-M has a newly-developed family of mechanical packings for centrifugal and rotary pumps called "Loklube Packings." They are produced by a new process which weaves asbestos yarn, pre-saturated with new lubricating materials, into packings that can withstand higher temperatures and more severe mechanical abuse than those previously marketed . . . . . J-M developed a new board form of high-temperature electrical insulation called "Quintexbord TX-6," composed of over 86% specially selected and processed asbestos fibers.

Richard Klinger Limited introduced "Klingerpac," a new, soft asbestos sheeting for low to moderate pressures. It is the newest of the "beater process" materials and consists of asbestos fiber with a synthetic rubber binder.

National Gypsum Company announced "Gold Bond Perforated Soffit Panels," made of durable asbestos cement.

Raybestos-Manhattan, Inc. has a new and permanently flame-resistant "Asbestos Rayon Cloth." The material is a blend of asbestos fibers and new fire-retardant-treated rayon fibers (PFR) and is produced in ASTM grades from Commercial to AA . . . . . R/M improved upon its pre-pasted asbestos lagging cloth, "Speedlag." It now meets the chemical requirements of MIL-I-24244, a military specification covering fabrics used in nuclear power plants.

Superconcrete Pipes (S.A.) Limited designed a new asbestos-cement ceiling board called "Asbestex" especially to meet the needs of coastal conditions . . . . . Superconcrete is now qualified as an approved supplier of cable conduit, having complied with the Specifications of the Engineering Branch of the General Post Office, Republic of South Africa . . . . . The company's asbestos-cement ceiling board, "Ceilite,"

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SUPPLY the felts best suited for your asbestos-cement production . . . Batt-on-Base . . . Needle Reinforced . . . Scapa Needled . . . whether you require smooth surface or the greatest knuckles

DELIVER the felts you require anywhere in the world . . . and deliver ON TIME

ENSURE that the Scapa felts you use are stable and consistent in quality

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SCAPA DRYERS LTD.

BLACKBURN, ENGLAND

WAYCROSS, Ga., U.S.A. **JOLIETTE, P.Q., Canada**

has been granted the mark of the South African Bureau of Standards.

Turners Asbestos Cement Company Limited introduced a new product called "Turnall Weatherall." Site tests of the new asbestos-cement slates have been carried out in varying weather conditions and the results have been satisfactory.

LITERATURE ON ASBESTOS FIBER & PRODUCTS

Certain-teed Products Corporation issued several pieces of literature during the year concerning its FLUID-TITE and CERTA-SEAL brand asbestos-cement pipe products, including high head irrigation pipe, pressure and non-pressure pipe, building sewer pipe and couplings for pressure pipe. The company also offered a free, pocket-size Sewer Pipe/Pressure Pipe Calculator Slide Rule and a companion booklet of instructions and suggested uses for those involved in water pollution control.

Among the many bulletins issued by *Johns-Manville Corporation* were: New Dimensions in Floor Tile, Vinylcraft Custom Design Patterns, Unusual Wall to Wall Designs With Individual Montage Tiles, and Thermostone Building Panel. The latter is a laminated panel composed of an insulating core faced on both sides with asbestos-cement sheets.

Nicolet Industries, Inc. issued "Nicolet Gasketing Materials" to describe its compressed asbestos sheet packing and "beater addition" asbestos gasketing materials.

J. W. Roberts Limited issued an informative booklet on its "Ferobestos" Asbestos-Reinforced Plastics.

Turner Brothers Asbestos Company Limited announced a Wall Chart and a booklet entitled "The Mineral Asbestos," to acquaint the reader with the history, properties, varieties and uses of asbestos.

Union Carbide Corporation published a brochure on "Calidria Asbestos," a material which has proved successful when applied as an extender, a thickener, a reinforcer and an opacifier. The fiber is from California and is of the Chrysotile variety.

APPLICATIONS OF ASBESTOS PRODUCTS

Asbestos-Cement Shingles are roofing the Blossom Music Center in Cleveland, Ohio. The Center is the new

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ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS ASBESTOS CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA



Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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home of the Cleveland Municipal Orchestra.

Insulation—In the Apollo 11 project, Johns-Manville's "Min-K" served as insulation to protect the gimbal assembly of the high-gain, S-band antenna, to provide insulation, gasketing and support for the windows of the Command Module and for insulating certain components of the fuel cells of the Service Module. Min-K was also used in portions of the descent stage of the Lunar Module.

Asbestos-Asphalt Thin Overlays were applied on airport runways in St. Louis and Toledo with the assistance of Johns-Manville. The same type of mixture proved very successful in the repaving of streets in many cities throughout the United States. The inclusion of asbestos fibers in the mix produces a tougher, more resilient, surface and extends the usable life of a repaired street by from 20% to 25%.

Insulation—High thermal efficiency at reduced installation costs in the insulating of stacks, tanks, lines and equipment at Interstate Paper Corporation's new plant at Riceboro, Georgia, was achieved through the use of "Armaspray 16," a product of Armstrong Cork Company. The new high-temperature, spray-on insulation contains a blend of asbestos fibers, mineral wool fibers and inorganic binders.

Oil Container—"Spillguard" was one of the oil-containing devices tested at the scene of the oil leak which occurred early this year off the coast of Santa Barbara, California. A marine fence developed and tested by Johns-Manville, Spillguard consists of lengths of specially-formulated asbestos-rubber sheet with a foamed flotation material cemented along both sides so the sheet rides upright in the water.

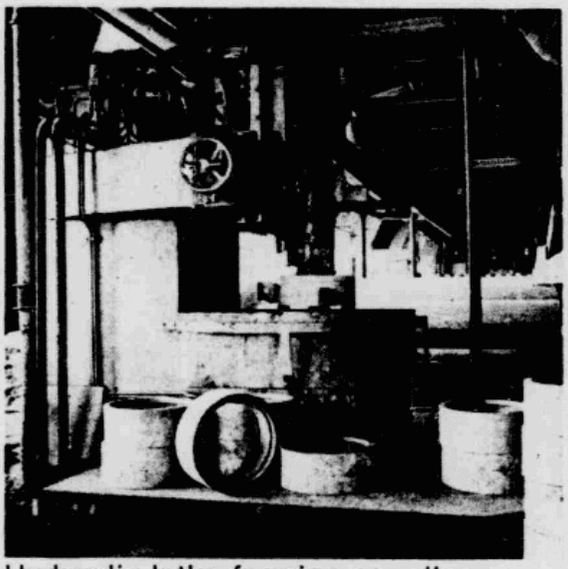
Asbestos-Metallic Cloth, supplied by Raybestos-Manhattan, was used in the Apollo 11 project as a heat shield on and around the engines of the Saturn booster vehicle which lifted the spacecraft from Earth.

Insulation—Johns-Manville supplied nearly all of the vital products to insulate the boilers, pipes, turbines and stacks in the new generating units at the Moss Landing Power Plant. Located 17 miles north of Monterey, California, the facility is part of Pacific Gas and Electric Company's vast power system.

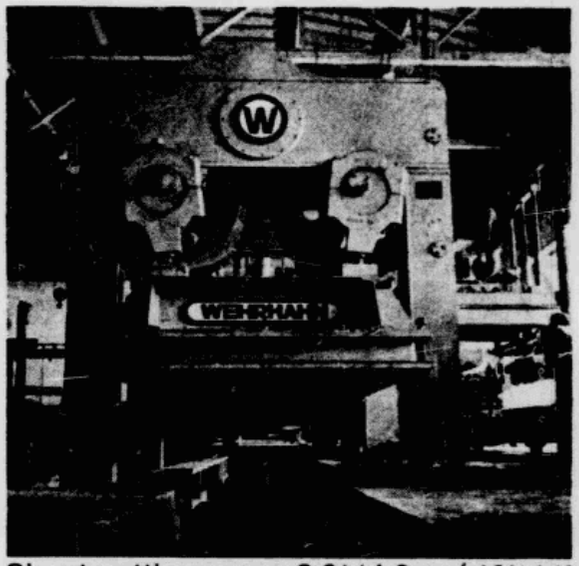
Asbestos Fabric was supplied by Uniroyal for use in the equipment stowage system of the Lunar Excursion Module of Apollo 11.

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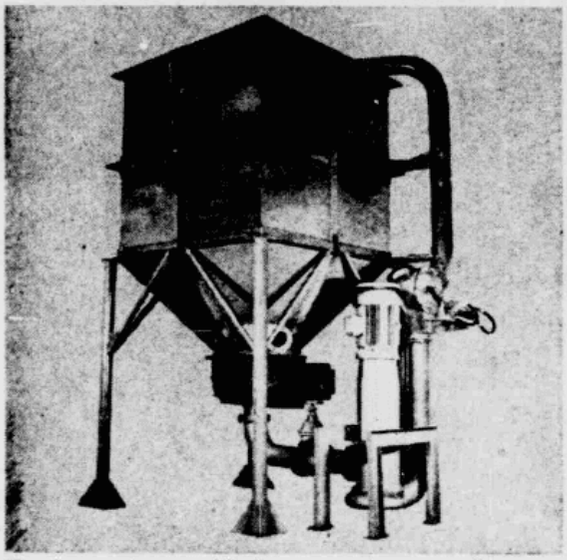
Choose performance and efficiency



Hydraulic lathe for pipe couplings



Sheet cutting press 3,6×1,3 m / 12′×4′



Turbopulper with horz.-rotors and pump

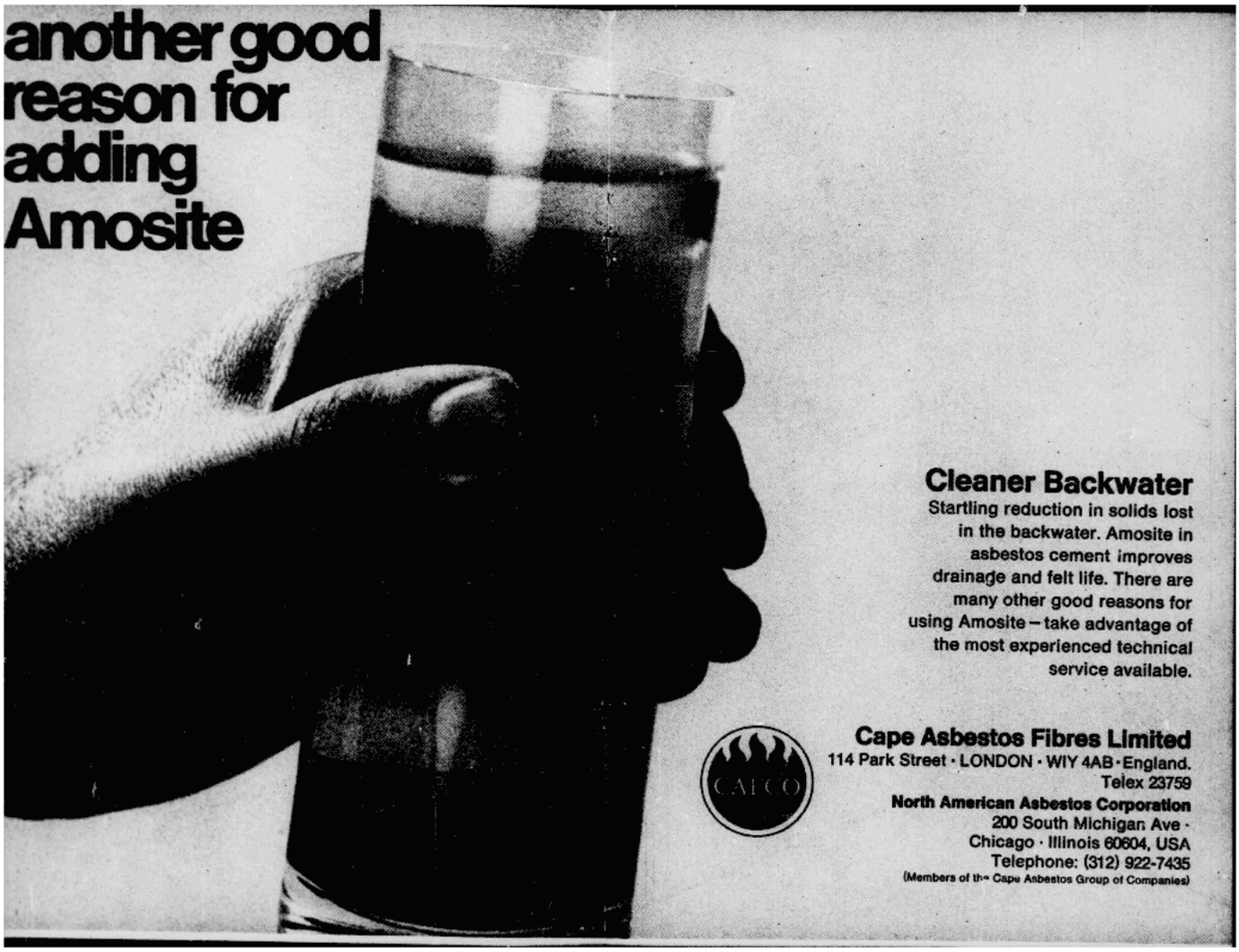


Test press for pipes

What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!
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Cleaner Backwater
Startling reduction in solids lost in the backwater. Amosite in asbestos cement improves drainage and felt life. There are many other good reasons for using Amosite – take advantage of the most experienced technical service available.
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Chicago · Illinois 60604, USA
Telephone: (312) 922-7435
(Members of the Cape Asbestos Group of Companies)

Viscosity Control Agent—Union Carbide's Resin-Grade 244 "Calidria Asbestos" is the viscosity control agent (thixotrope) in the gel coat which is applied in the making of glass fiber components for custom-body conversion kits manufactured by Velocidad, Inc.

AWARDS

Marion S. Badollet, Consultant for the Health Research Institute at Fairleigh Dickinson University, received a Certificate of Merit from the Dictionary of International Biography for distinguished service to asbestos research and chemical technology.

Leslie A. Kautz, Market Manager of Building Materials with Philip Carey Corporation, received the J. A. Piper Award from the National Roofing Contractors Association in recognition of outstanding service to the roofing industry.

National Gypsum Company received tribute from the American Society for Testing and Materials for 40 years of continuous participation in, and contributions to, the Society.

GAF Corporation received the Silver Anvil Award from the Public Relations Society of America in recognition of the public relations program undertaken last year to publicize the change of its corporate name and to familiarize the public with its diversification, growth and future.

RETIREMENTS

The following retirements were recorded in ASBESTOS during the year. May these gentlemen have many, many years of good health and happiness.

R. D. Bradford, President, American Smelting and Refining Company;

George Courtauld, a Director of The Cape Asbestos Company Limited;

Sir William C. Fenton, Chairman, BBA Group Limited;

Leonard L. Hank, Divisional Vice President of Manufacturing Operations, National Gypsum Company;

Philip A. Meyer, Corporate Vice President, Nicolet Industries, Inc. (will continue to serve as Consultant);

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Asbestos in Marrakech.

We don't mean Marrakech, the Moroccan city famous for its beautiful tiles and mosaics.

We mean Marrakech, the J-M Vinylcraft® floor tile. As beautiful and exotic looking as the city it's named for.

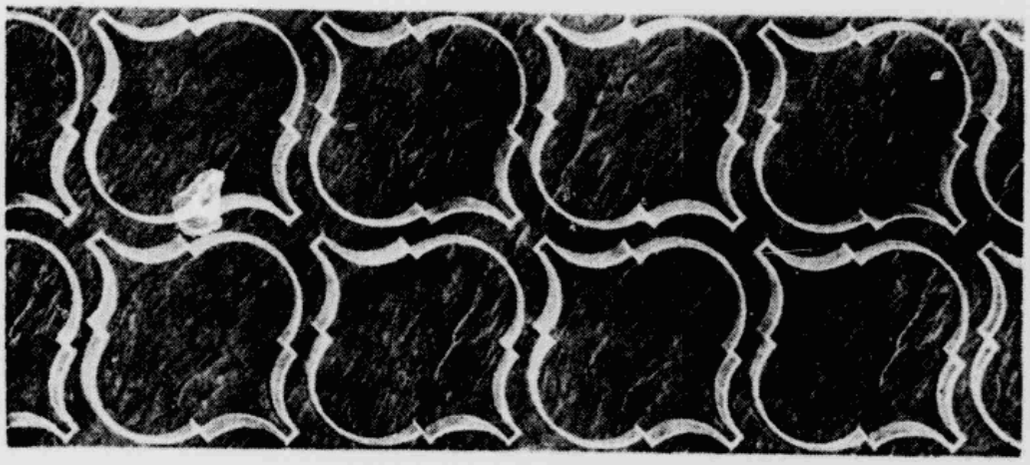
The reason you'll find our asbestos in Marrakech is pure and simple. When fortified with asbestos fibers, Vinylcraft tiles wear like—well, like asbestos. Even under the most challenging conditions.

J-M asbestos adds strength and fire-retardant qualities to many products for the home—siding, roofing, floor and ceiling tiles, to name just a few.

How can asbestos improve your products? We'd like to show 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

Johns-Manville



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Rupert St. George Riley, Chairman and Managing Director, Cape Asbestos Fibres Limited;

Dr. Irl Corley Schoonover, Deputy Director, U.S. National Bureau of Standards.

DEATHS

During 1969 ASBESTOS regretfully reported the deaths of the following members or former members of the Industry. Their efforts in behalf of the Industry will be long remembered and the sympathies of those in the Industry are extended to their survivors.

Clifford J. Backstrand, former Chairman and President, Armstrong Cork Company;

A. Devereux Chesterton, Chairman of the Board, A. W. Chesterton Company;

Juda Diener, former Vice President of Smith & Kanzler Company;

Cyril Leslie Hirst, well known prospector and active in the Rhodesian mining industry;

Harold Howe, Secretary of American Smelting and Refining Company;

W. A. Janitch, retired Representative in Great Britain for Asbestos Corporation Limited;

Arthur W. Knight, former Regional Sales Manager with Johns-Manville Corporation and associated with Thorpe Insulation Company and Asbestos Products and Fabricators Company;

Joseph H. Maston, Treasurer and Secretary, Anchor Packing Company;

James McCawley, Editor of the American Roofer and Building Improvement Contractor;

William M. Murfin, Chairman of the Board and Chief Executive, B & B Engineering and Supply Company;

John F. D. Rohrbach, Chairman of the Board of Directors and former President, Raybestos-Manhattan, Inc.;

Stephen M. Stevens, President, Stevens Asbestos Products Company;

Roscoe S. Tallman, Chairman and President, Tallman-McCluskey Fabrics Company.

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ALL TYPES OF ASBESTOS CEMENT MACHINERY

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CONTRACTS, AID PROGRAMS & EXCHANGE VISITS

Bell Asbestos Mines supplied India with large quantities of asbestos fiber as a result of two contracts issued by the *Canadian International Development Agency*.

Under the *American Aid Program*, through the Agency for International Development, *Hume Industries (Far East) Limited* shipped 16,000 asbestos-cement pipes for use in the domestic water supply system in Saigon.

As part of a large order from the *Malaysian Public Works Department*, the first 24" diameter asbestos-cement pressure pipes ever to be manufactured in Malaysia were shipped by *Hume Industries (Malaya) Berhad* from its factory in Petaling Jaya. The pipes will be used in a major water supply plan in Kedah and when completed, more than 15 miles of pipelines will have been installed.

Small and Parkes Limited signed an agreement with *Czechoslovakian Authorities* worth the equivalent of an immediate £250,000 direct export, with long-term prospects valued at many times this amount. The Czechoslovakians will build a factory for the manufacture of Don formula disc brake pads.

A group of *Soviet* building construction experts visited various building research, planning, design, construction and product-factory sites throughout the *United States*. Another exchange between the two Governments, on "Industrialization of the Building Process," commenced in August when an 8-delegate team from the U.S. visited Moscow, Leningrad, Kiev and Tashkent.

DISTRIBUTOR APPOINTMENTS, ETC.

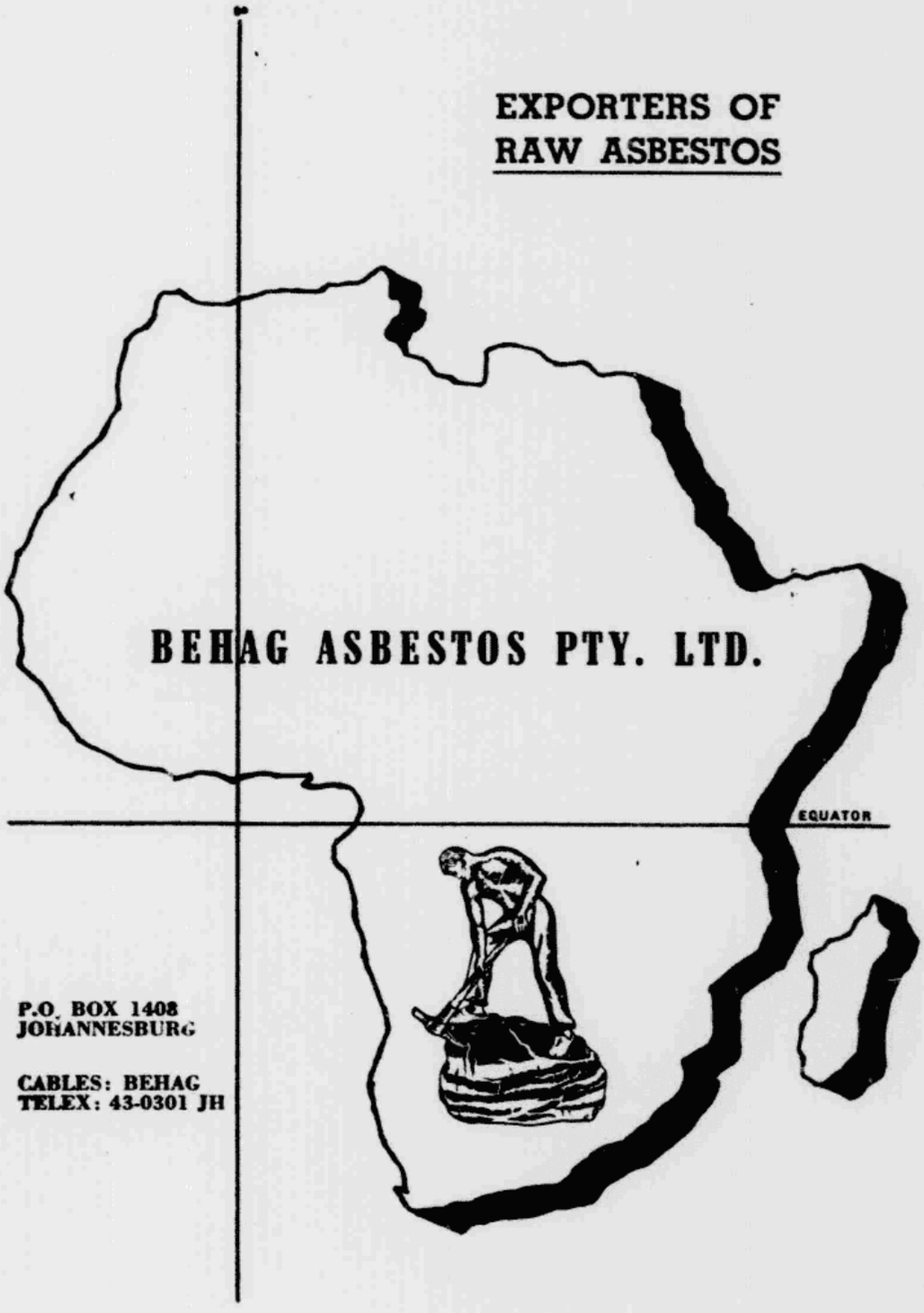
Special Asbestos Company, Inc. is the Sole Agent in the United States for the sale of Blue asbestos from the South African mines of *Central Asbestos Company Limited*.

Marubeni-Iida Company Limited was granted, by *Pacific Asbestos Limited*, the exclusive distributorship rights throughout many Eastern-South Asian countries. The grant is in conjunction with Pacific's agreement to sell 210,000 short tons of Chrysotile fiber to Marubeni, over a 5½ year period, from its asbestos properties in Woodsreef, Australia.

Sprayed Insulations Limited appointed new Licensees in four countries for its Silbestos process: Bradford Insulation

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EXPORTERS OF
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Limited, Australia; Potter Industries Limited, New Zealand; A/S Okas Isolering, Denmark; and Fahd & Abdulrahman Al-Jindan, Saudi Arabia.

Stolley and Orlebeke, Inc. was appointed manufacturers representative in the Chicago, Illinois, area for *Sturtevant Mill Company*, a manufacturer of crushing, grinding and dry processing equipment.

Tulnoy Lumber, Inc., Brooklyn, New York, was appointed, by *Johns-Manville*, as a master stocking distributor of Permatone "S" Flexboard.

WEIGHTS, MEASURES & STANDARDIZATION

The International Committee of Weights and Measures approved a new International Practical Temperature Scale extending to much lower temperatures than before and reached major decisions affecting international cooperation in radio-frequency measurements, accurate time dissemination and standard reference materials.

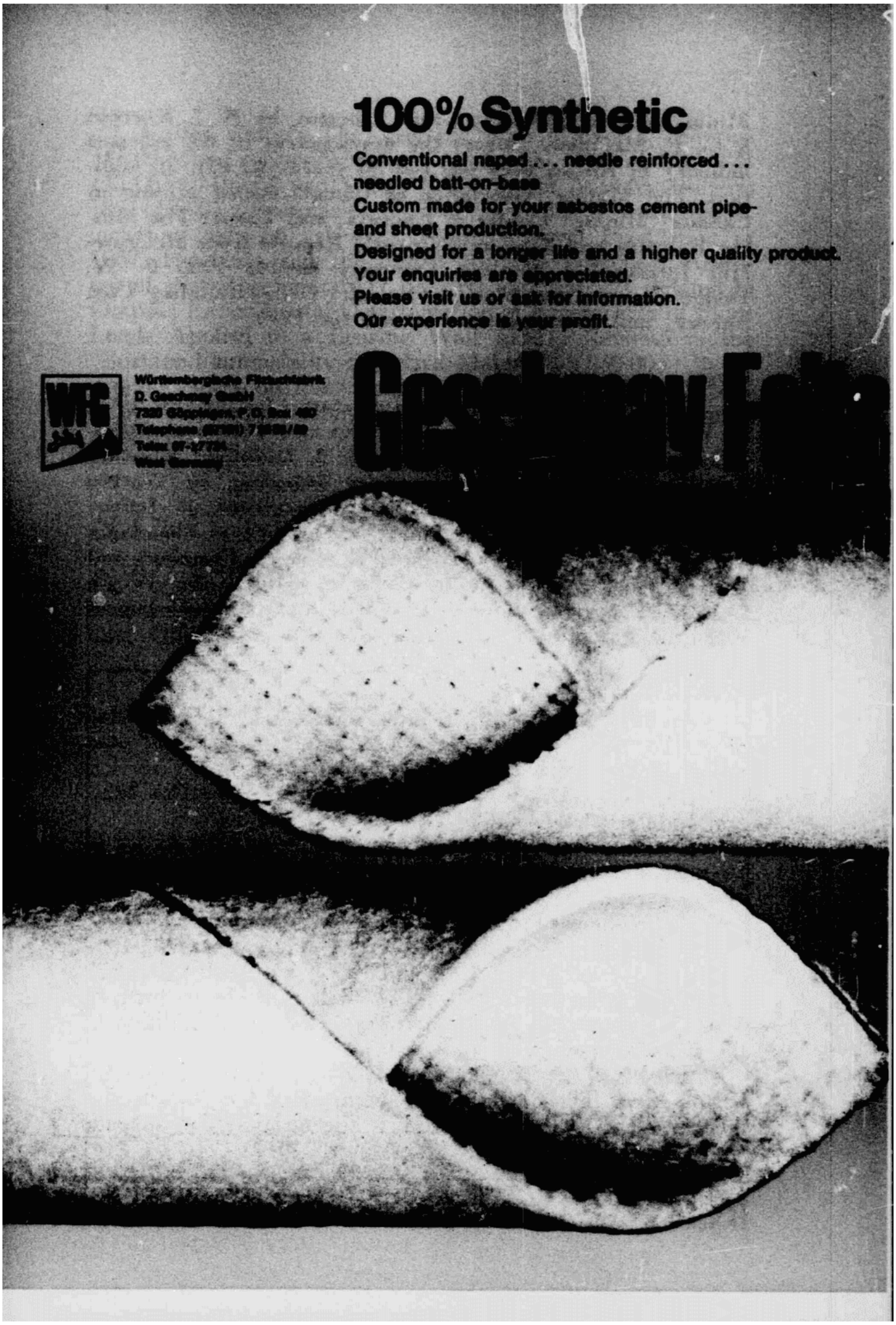
The U.S. National Bureau of Standards has information available on the new English-language Definitions of the Base Units of the International System of Units (SI).

The Modernized Metric System, available from the Superintendent of Documents for 50c, presents the six base units of the present form of the Metric System and the relation between SI units and the U.S. customary units.

BOOKS, BOOKLETS, SURVEYS, ETC.

World Who's Who in Science ($60.00); Mineral Exploration, Mining and Processing Patents, 1968, by Oliver S. North ($25.00); Thesaurus of Textile Terms Covering Fibrous Materials and Processes ($25.00); International Glossary of Technical Terms ($20.00); Thermal Insulation, by John F. Malloy ($20.00); Performance of Deep Foundations ($20.00); Solid-Liquid Separation, by J. B. Poole & D. Doyle ($19.50); Thesaurus of Engineering and Scientific Terms ($19.50); Materials Performance and the Deep Sea ($9.50); A Dictionary of Mining, Mineral and Related Terms ($8.50); Evaluation of Wear Testing ($7.75); 1969-1970 Canadian Mines Handbook ($6.00); 1969 Survey of Mines ($7.00); The New Building Block, a report on the Factory-Produced Dwelling Module ($5.00); 1969

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Mining Review ($4.80); Urals Asbestos, by N. I. Korepin & G. P. Mel'nikov, covers the development of the asbestos industry in Russia over the last 80 years ($2.40). In addition, The Mining Association of Canada issued Mining in Canada; Mining: Leader in Exports; and Taxes: The Mining Industry and Economic Growth. Reports from McGraw-Hill Information Systems Company include 1980 F. W. Dodge Construction Market Outlook; Dodge Building Cost Survey; and Construction Outlook for 1970.

PAPERS & ARTICLES

Chapter on Asbestos, an annual review for the year 1968, by W. G. Jeffery; Physical Properties and Technical Applications of Asbestos Minerals, by M. S. Badollet; Moisture Testing Bias Caused by Composite Sampling, by Warren Benson; Maintenance of Stripping Equipment at Jeffrey Mine, by R. T. Young; Elements of a Mineral Policy for Canada, a talk by J.-P. Drolet; Review of Canadian and British Blasting Practice in Open-Pit Mining, by W. B. Morrey, R. Shaw and G. G. Riley; and pertinent papers listed in bi-monthly issues of the Asbestos Bulletin.

GOVERNMENT LITERATURE

Africa: Mineral Map of Africa ($10.00); Tectonic Map of Africa, 1968 ($5.60 per sheet, $50.00 per set of nine sheets, $1.00 for the explanatory brochure).

Australia: Mineral Exploration 1967; Australian Mineral Industry 1967.

Canada: Index of Standards and Specifications as of January 1969 and Cumulative Supplement as of March 13, 1969; Products Shipped by Canadian Manufacturers, 1965 and 1966 (75c each); Annual Census of Manufacturers, 1966 (preliminary); Asbestos Products Manufacturers 1967 (50c); Asbestos Mines, 1966 and 1967 (50c each); Canada's Mineral Production 1968 (25c); Ontario Department of Mines' Annual Report for the Year 1966; U.S. Edition of the Canada Courier.

England: British Standard 3260 on PVC (Vinyl) Asbestos Floor Tiles; Statistical Summary of the Mineral Industry, 1962-1967 (£1 7s 6d); Specification for Fibrous Gland Packings (8s, plus 9d postage).

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United States: The Tectonic Map of North America ($5.00) and accompanying Professional Paper No. 628 ($1.00); Mineral and Water Resources of Arizona, Bulletin 180 ($3.00); Summaries of Trade and Tariff Information, including data on asbestos: World Mineral Production in 1967; Preprints from the annual Minerals Yearbook; Asbestos in 1968 (preliminary); Exports and Imports Related to Output; Experimental Determination of Eccentricity of Floor Loads Applied to a Bearing Wall (15c); Renewal of the "Surface Flammability Standard Material" ($30.00); Background Notes on the Countries of the World ($6.00, plus $1.50 for foreign mailing); Exploring Space With a Camera ($4.25).

Subscribers . . . . are not only readers, they are also the eyes and ears of the Editor. ASBESTOS welcomes all notes or clippings about firms and individuals in the Industry, from anywhere in the world. Address items to ASBESTOS, Post Office Box 471, Willow Grove, Pennsylvania 19090.

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R/M Purchases Textile Plant

William S. Simpson, President and Chairman of the Board of Raybestos-Manhattan, Inc., has announced an agreement to purchase an asbestos textile plant in Marshville, North Carolina. The 100,000-square-foot plant is located approximately 40 miles southeast of Charlotte and will be operated as a part of R/M's Manheim, Pennsylvania, division.

Dr. E. P. Stefl, Vice President of Raybestos-Manhattan and General Manager of the Pennsylvania division stated that plans were being made for the immediate expansion of the newly-acquired manufacturing facilitity and that it will augment the Pennsylvania division's requirements for asbestos textiles and friction materials, thereby becoming a vital link in the corporation's manufacture of clutch facings and brake linings.

Personnel changes were also announced in conjunction with the acquisition of the Marshville operation. Claude Kennedy, formerly associated with R/M's North Charleston, South Carolina, division, will become Plant Manager. Lewis C. Williams, Textile Superintendent at Manheim since 1956, has been named Plant Superintendent.

Raybestos-Manhattan operates 23 plants and manufactures and markets a broad line of asbestos textiles, industrial rubber products, mechanical packings, sintered metals, specialized plastics, and is a major supplier of automotive and industrial friction materials. The company employs more than 7,000 individuals and operates divisions in North Charleston, South Carolina; Crawfordsville, Indiana; Passiac, New Jersey; Stratford, Connecticut; and Manheim, Pennsylvania. In addition there are three subsidiaries located throughout the United States and abroad. R/M corporate headquarters are in Bridgeport, Connecticut.

ASBESTOS TEXTILE INSTITUTE will hold its next General Meeting on February 4-6, 1970, at The Regency Hyatt House, Atlanta, Georgia.

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VOITH

J. M. VOITH A. G. · POB 168 · A 3100 ST. POELTEN · AUSTRIA

DR. WERNER VON BRAUN, Director of NASA's George C. Marshall Space Flight Center, Huntsville, Alabama, received a most unusual, but practical, gift from *Atlas Asbestos Company,* North Wales, Pennsylvania. While speaking at the Electrical Insulation Conference held last September in Boston, Massachusetts, he mentioned that certain parts of his anatomy were left unprotected when, due to pressures of his work in the rocket and space program, he often found himself in the hot seat."

Atlas Asbestos very aptly responded to the "lack of protection" by presenting Dr. von Braun with a pair of asbestos "shorts." They are manufactured from asbestos cloth, are light in weight and are capable of withstanding temperatures of over 1000°F.

In a letter acknowledging the gift, Dr. von Braun wrote: "I must confess that we have probably been too intent upon the job ahead of us and the prospects of space exploration to be concerned about protecting the posterior. In fact, I suppose we had come to accept a certain amount of ablation as nominal. Your breakthrough in the field of protective clothing is most timely and I am sure that your creativity and courtesy will reduce the number of blisters beyond the call of duty which would come from hot projects. Perhaps they will even help me to 'keep my cool' and endure with a smile the seemingly inevitable sessions in the hot seat."

Congratulations to Atlas Asbestos for supplying Dr. von Braun with protection adequate to meet the most severe tests to which he might be subjected.

ASTM STANDARDS—The American Society for Testing and Materials has announced the following Standards are now available and will be part of the 1969 Book of ASTM Standards: Part 10 on Concrete and Mineral Aggregates ($12.00) and Part 14 on Thermal and Cryogenic Insulating Materials, Acoustical Materials, Fire Tests, Building Constructions ($10.00). The costs quoted above do not include handling and shipping charges.

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Automobile Sales

SEPTEMBER 1969 motor vehicle factory sales from plants in the *United States* totaled 907,254 (passenger cars —751,576, trucks and buses—155,678). The total for September 1968 was 816,916. The total for the FIRST NINE MONTHS OF 1969 was 7,450,326 compared with 7,670,363 for the same period in 1968.

Motor vehicle factory sales from plants in *Canada* totaled 131,327 for September 1969 compared to 101,010 in September 1968. The total for the first nine months of 1969 was 967,130 against 787,919 for the same period in 1968.

THE "ASBESTOS BULLETIN" listed the following papers concerning asbestos in the U.S.S.R. in its September-October 1969 issue: Study of Chrysotile Asbestos by the Nuclear Magnetic Resonance Method; Two-Frequency Method for Measuring the Amount of Chrysotile Asbestos in Ore, Effect of Negative Temperatures on the Physical State and Properties of Asbestos, Mineralogy and Genesis of Rhodusite from the Dzhezkazgan and South Minusinsk Depressions, and Anthophyllite Asbestos of the Western Azov District and the Middle Dnieper District (Pietrowsky Section).

Other interesting papers listed in the same edition include: Mechano-Chemical Production of Graft Copolymers of Asbestos with Rubber, Asbestos as a Constructional Material for the Chemical Industry, and Analytical Studies in Basic Magnesium Carbonate and Asbestos Lagging Compositions.

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

H. K. PORTER COMPANY, INC. declared a quarterly cash dividend of 40c per share on the common stock. The dividend is payable December 19 to stockholders of record December 2.

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Asbestos Magazine, 1969, December 1969
ACL Doc 12632 · Page 52 of 69
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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 8,321,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the *First Quarter of 1969*, compared to 8,520,000 square yards for the same three-month period in 1968.

Australia—Imports of asbestos for the *First Quarter of 1969* totaled 11,325 short tons, valued at $1,472,000, compared to imports of 15,098 tons, valued at $1,806,000, for the same period the previous year. These figures were supplied by the Commonwealth Bureau of Census and Statistics, Canberra.

Canada—According to the Dominion Bureau of Statistics, Ottawa, producers' shipments of asbestos during *August 1969* totaled 139,196 short tons (116,557 tons from Quebec plants and 22,639 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for *August 1968* was 132,993 tons.

Canada produced 147,102,365 square feet (68,443 short tons) of vinyl-asbestos tile during the *First Nine Months of 1969*. Shipments for the same period amounted to 142,034,139 square feet (67,081 tons). Imports of vinyl-asbestos floor and wall tile reached 1,967,607 square feet, valued at $357,000, for the *First Half of 1969*. These figures were supplied by the Dominion Bureau of Statistics, Ottawa.

South Africa exported 71,159 short tons of asbestos fiber, valued at R8,082,693, during the *2nd Quarter 1969*. The breakdown is as follows: Amosite, 25,063, R2,513,668; Chrysotile, 6,865, R525,014; Cape Blue, 36,352, R4,638,566; Transvaal Blue, 2,879, R405,445. These figures were supplied by the Department of Mines, Johannesburg.

South Africa—According to the Department of Mines, Johannesburg, 68,871 short tons of asbestos were produced during the *2nd Quarter 1969:* Amosite, 25,665; Chrysotile, 11,023; Cape Blue, 30,882; Transvaal Blue, 1,301.

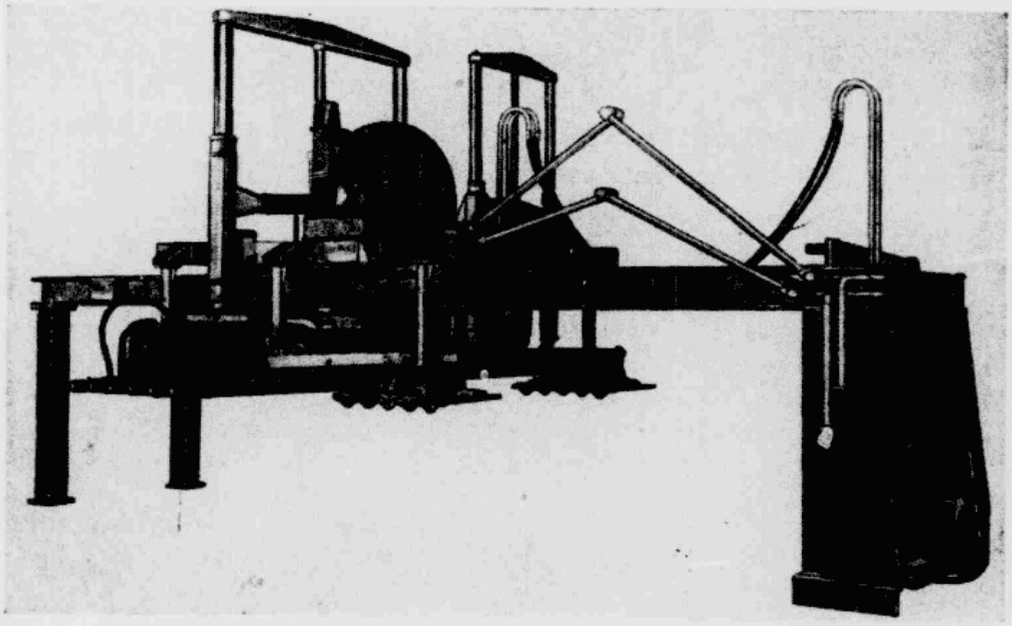
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welcomes the following new advertiser:

PACIFIC ASBESTOS CORPORATION, page 43

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Imports Into U.S.A.

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

Unmanufactured Asbestos:	JUL 1969	AUG 1969
Amosite, South Africa	1,322	1,105
Crocidolite (Blue), South Africa	1,323	1,038
Chrysotile, Crude, Canada	5	..
Finland	22	148
South Africa	680	90
Chrysotile, Spinning Fibers, Canada	1,272	1,347
Chrysotile, Other, Canada	47,282	54,029
Yugoslavia	827	..
Other Crudes & Fibers, Canada	1,789	1,572
Finland	485	318
Italy	..	1
Mozambique	56	106
Portugal	45	56
South Africa	80	..
	55,188	59,810

July imports of unmanufactured asbestos were valued at $6,029,589.
August imports of unmanufactured asbestos were valued at $6,454,563.

Manufactured Asbestos Goods:			JULY 1969
Asbestos Yarn, Slivers etc.	Lb	186,708	$112,104
A-C Pipes, Tubes & Fittings	Lb	8,138,233	358,691
Asbestos-Cement Articles, Other	Lb	1,687,325	229,118
Asbestos Articles, Other		..	121,406
			$821,319

			AUGUST 1969
Asbestos Yarn, Slivers, etc.	Lb	190,775	$118,125
A-C Pipes, Tubes & Fittings	Lb	8,038,218	343,554
Asbestos-Cement Articles, Other	Lb	2,246,765	208,219
Asbestos Articles, Other		..	88,755
			$758,653

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Exports From U.S.A.

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

Unmanufactured Asbestos:		AUGUST 1969	
Crude & Spinning Fibers	s. tons	244	$ 56,067
Non-Spinning Fibers	s. tons	1,267	221,168
Waste & Refuse	s. tons	1,268	148,169
		2,779	$ 425,404
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,735,068	$ 175,617
Other Asbestos-Cement Articles	Lb	592,905	108,705
Gaskets & Packing	Lb	418,848	563,788
Textiles & Yarns	Lb	859,924	157,864
Mfrs. other than Friction Materials		..	502,281
Clutch Facings & Linings for auto. use	No	302,879	267,922
Clutch Facings & Linings, Other	No	98,981	44,197
Brake Linings for automotive use	Lb	606,493	487,511
Brake Linings, Other	Lb	124,615	119,580
			$2,427,465

Exports From Canada

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

Unmanufactured Asbestos: Short Tons

	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	..	..	..
Western Europe	..	345	27,570	11,798
Middle East	..	..	540	506
Africa	..	..	170	100
Asia	7	99	5,337	6,708
Oceania	..	..	3,697	1,251
So. & Cen. America & Antilles	..	72	2,658	1,736
United States	..	1,360	16,678	35,495
	7	1,876	56,650	57,594

The total amount of unmanufactured asbestos exported in *August 1969* was 116,127 short tons, valued at $16,199,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 36,000
Asbestos-Cement Building Materials	103,000
Asbestos Basic Products, Other	105,000
	$244,000

Asbestos Magazine, 1969, December 1969
ACL Doc 12632 · Page 56 of 69
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INDUSTRY NEWS

HAPPY BIRTHDAY

Faustin J. Solon, Jr., Vice President-Advertising & Public Relations, Johns-Manville Corporation, New York City, December 18.

George J. Pecaro, President, The Flintkote Company, White Plains, New York, December 20.

Harry C. Redstone, Executive Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.

Edwin E. Hokin, President, Unarco Industries, Inc., Chicago, Illinois, December 21.

Robert L. Clark, Chairman, The Clark Asbestos Company, Cleveland, Ohio, December 22.

James H. Binns, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 23.

F. S. Donnelly, Vice President & General Manager-International Operations, Armstrong Cork Company, Lancaster, Pennsylvania, December 23.

A. J. Matlin, Director of Engineering, Philip Carey Corporation, Cincinnati, Ohio, December 23.

Donald G. Hamme, Director of Research, National Gypsum Company, Research Center, Tonawanda, New York, December 24.

John Clarke Dempsey, Vice President, Armor Products, Inc., New York City, December 27.

J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.

M. J. Warnock, Chairman of the Board, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.

Perry A. Martinson, General Manager, Celite Division, Johns-Manville Corporation, New York City, December 29.

F. P. Parkes, Managing Director, Small and Parkes Limited, Hendham Vale Works, Manchester, England, December 29.

Robert G. Lillibridge, Director of Research & Engineering Planning, Philip Carey Corporation, Cincinnati, Ohio, December 31.

John E. Burke, President & General Manager, Sturtevant Mill Company, Dorchester, Massachusetts, January 1.

John L. Cole, Works Superintendent, Wunderlich Limited, Sydney, Australia, January 1.

C. R. Harris, Mill Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, B.C., Canada, January 1.

Vincent W. Drumb, Area Supervisor of Industrial Relations, GAF Corporation, New York City, January 2.

Noel W. Hendry, General Sales Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, P.Q., Canada, January 2.

Robert G. Beldam, Chairman & Managing Director, Beldam Asbestos Company Limited, Lascar Works, Hounslow, England, January 3.

Octave Mousseau, Vice President & Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, P.Q., Canada, January 3.

Lawrence B. Row, Corporate Director of Management Services, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, January 7.

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Charles E. Tennesson, Jr., President & Chief Executive Officer, Philip Carey Corporation, Cincinnati, Ohio, January 8.
Andrew J. Wallner, Director of Traffic, Johns-Manville Corporation, New York City, January 10.
A. Smith, General Sales Manager-Asbestos, Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pa., January 13.

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

Hume Industries (Malaya) Berhad has shipped, from its factory in Petaling Jaya, the first 24" diameter asbestos-cement pressure pipes ever to be manufactured in Malaysia.

The pipes are part of a large order from the Malaysian Public Works Department and will be used in a major water supply plan in Kedah to supply an additional three million gallons of water per day for the rural dwellers in the state, the majority of whom are rice farmers. When completed, more than 15 miles of pipelines will have been installed.



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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 STOCK QUOTATIONS

Close—November 21, 1969

Abitibi Asbestos	*$6.50
Advocate	*$2.50
Asarco	31½
Armstrong Cork	33
Armst Cork (pfd 3.75)	56
Asbestos Corporation	*$26.75
Bendix	38
Bendix (pfd 3)	63¾
Carlisle	14⅞
Cassiar	*$17.00
Certain-teed	23¼
C-teed (pfd .90)	24
Conwest	*$13.37
Flintkote	26
F-kote (pfd-A 4.50)	82½
F-kote (pfd-B 2.25)	36⅜
F-kote (4-pfd 4)	53½
GAF	16¾
GAF (pfd 1.20)	24⅝
Garlock	20⅜
Glen-Alden	8⅞
G-Alden (pfd 3.15)	66
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Grace	28⅜
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G&W (pfd 3.50)	84¼
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G&W (pfd 5.75)	66
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Maremont	12
National Gypsum	25¼
Patino	*$46.75
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Raybestos—Manhattan	49¾
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ACL Doc 12632 · Page 60 of 69
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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 October 14 through November 11, 1969.

3,472,668—Reinforcement of Lower Density Inorganic Structures, O. W. Pfeifer & R. F. Shannon (assigned to Owens-Corning Fiberglas Corporation, a corporation of Delaware), October 14.

3,474,048—Polymer Foams Reinforced with Glass or Asbestos Fibers and Process of Making Same, D. C. Chappelear, T. J. Stolki & Q. A. Trementozzi (assigned to Monsanto Company, St. Louis, Missouri), October 21.

3,475,189—Filler Material for Acetylene Cylinders, J. L. Carter & J. E. Hofmann (assigned to Coyne Cylinder Company, address not listed), October 28.

3,475,894—Production of Strands from Fibrous Material, Particularly Asbestos Fibers, W. Wilke & H. Fetzer (assigned to Rex Asbestwerke Graf von Rex K.G., Schwabisch Hall, Germany), November 4.

3,477,865—Alumina Trihydrate-Fibrous Matrix Compositions and Method of Forming Same, B. F. Armbrust, Jr. & V. G. Carithers (assigned to Reynolds Metals Company, Richmond, Virginia), November 11.

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The Mineral Industry of East Germany—In 1968, East Germany's most significant mining activities, lignite and potash, operated at a level that met domestic and foreign demand. Available statistics on the mineral industry indicate an overall increase in production with the exception of iron ore. The country did not produce or export any asbestos. In 1967, the U.S.S.R. was the main supplier of the 38,340 metric tons of asbestos imported.

The Mineral Industry of Libya—During 1968, Libya's crude petroleum production capacity was the fastest growing in the world and expansion continued at the end of the year. On a basis of output in barrels per day, Libya ranked sixth in the world. For 1967, no imports of crude asbestos were reported, although the country imported 27 metric tons in 1966. Asbestos-cement building materials imported in 1967 amounted to 16,432 metric tons.

The Mineral Industry of North Korea—North Korea depends heavily on mining and metallurgy to support its moderately industrialized economy. Trade with the U.S.S.R., North Korea's most important trading partner, increased as planned in 1967, the first year covered by a 4-year trade agreement. Asbestos was among the nonmetallic minerals reported by the U.S.S.R. as exported to North Korea: 2400 tons in 1967 compared to 1600 tons in 1966.

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Advertisers in Asbestos—1969

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American Smelting & Refining Co.
U. Ammann Ltd.
Asbestos Cement Engineering Co.
Asbestos Corporation Limited
Asbestos Textile Institute
Astex Publishing Company
Atlas Asbestos Company

The Bauer Bros. Co.
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Behag Asbestos Pty. Ltd.
Bell Asbestos Mines Ltd.
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Canadian Johns-Manville Co., Ltd.
Cape Asbestos Fibres Limited
Carey-Canadian Mines, Ltd.
Cassiar Asbestos Corporation Ltd.
Central Asbestos Co. Ltd.
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Feltrificio Veneto S.p.A.
The Flintkote Company
Benjamin Foster Company

GAF Corporation
General Mining & Finance
Corporation Limited
Gummi Asbest Kunststoffe

Thomas Hardman & S ns Ltd.
Hazemag
Huxley Development Corp.
Hyderabad Asbesto Cement
Products Limited

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James United Steel Ltd.
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Polyrez Company
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The R.C.M. Company
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Chenevert Inc.

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Union Carbide Corporation
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Valley Asbestos (Pty.) Ltd.
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Gebr. Wehrhahn
Wurttembergische Filztuchfabrik
D. Geschmay GmbH

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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.

AD 689 800—Spacecraft Fires, a bibliography by the Defense Documentation Center, Alexandria, Virginia, that contains references on the minimization of fire and explosion hazards in advanced flight vehicles.

TSP 69 10279—Handbook for Design of Containers of Fluids and Gases for Spacecraft, by M. L. Koehler & R. L. Campbell of The Boeing Company under contract to Marshall Space Flight Center.

TSP 69 10298—Four-Bar Linkage for Thermal Compensation in Test Mounts for Structures, by Robert M. Norman of the Jet Propulsion Laboratory.

NBS BUILDING SCIENCE SERIES 23—Hail Resistance of Roofing Products, by Sidney H. Greenfeld; results of research done at the National Bureau of Standards under sponsorship of the Asphalt Roofing Manufacturers Association; tests were made primarily on bituminous roofing materials but a sampling of other roofings was also made (25¢).

SP-313—Proceedings of the 1968 Standards Laboratory Conference is also available from the Clearinghouse at $1.50 per copy.

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Topical Index of Main Articles—1969

ASBESTOS-BASED PRODUCTS

Unibestos Insulates Power Station (February, page 12)
Disc Brakes (March, page 2; April, page 4)
FEROBESTOS Asbestos Reinforced Plastics (April, page 12)

HISTORIES

ASBESTOS Magazine Marks 50th Anniversary (July, page 2)
Asbestos Textile Institute—25th Anniversary (September, page 12)

INDUSTRIAL HEALTH

Joint Health Research Effort—Insulation Industry Hygiene Research Program (May, page 6; July, page 36; October, page 16)

MANUFACTURING

New HELLENIT Asbestos-Cement Products Plant (January, page 16)
Nicolet's Saturating Facility for Pipe Line Felt (August, page 16)
R/M Purchases Textile Plant (December, page 44)

MINING, MILLING & PROCESSING

The Smit Group Activities, South Africa (January, page 14)
The HAZEMAG APK Impact Crusher (February, page 2)
Carey-Canadian Mines Uses One Tractor Shovel to Mine Two Pits (September, page 2)
Canadian Johns-Manville Recovers Fiber From Asbestos Ore Tailings (November, page 2)
New Msauli Asbestos Mill, South Africa (November, page 10)

NEW ASBESTOS PROPERTIES

Asbestos Occurrence Found in Alaska (April, page 16)
Asbestos Hill Project—Asbestos Corporation Limited (October, page 20)

PROFILES

James McCawley, American Roofing & Building Improvement Contractor (April, page 18)
Sir William C. Fenton, BBA Group Limited (June, page 8)
R. D. Bradford, American Smelting and Refining Company (June, page 12)
Philip A. Meyer, Nicolet Industries, Inc. (November, page 20)

PROMOTION

Asbestos Rock Moved to Laval University (January, page 12)
National Gypsum Promotes "Woodrock" (June, page 2)
The Certain-teed House (June, page 6)

RESEARCH & DEVELOPMENT

A New Fiber Research Laboratory—Cape Asbestos Fibres Limited (August, page 4)
Research-Based Development of Asbestos Products (October, page 2)

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BUILT ON A ROCK

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

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Remember When?

(December 1919 ASBESTOS)

A short biography of Richard V. Mattison, M.D., President of Keasbey & Mattison Company; Bell Asbestos Mines; Asbestos Shingle, Slate and Sheathing Company and a number of other firms, appeared in this issue of ASBESTOS. In the profile, Dr. Mattison is credited with the introduction of asbestos-cement shingles into this country—and, as may not be so well known, he was responsible for making K&M the first manufacturer of molded 85% Magnesia heat insulating materials.

Elsewhere in the same issue, ASBESTOS congratulated Dr. Mattison on the occasion of his birthday, November 17th. (This sort of personal note led to the later establishment of our Birthday List.)

The December number contained an article titled "Asbestos Paper—A Brief History," by W. L. Steffens. Mr. Steffens was well known in the Industry and spent practically his entire working career with the Philip Carey Corporation. On January 1st, 1952, he retired from Carey as Vice President and Director.

The Asbestos Paper Manufacturers Association has taken a Fellowship in the Mellon Institute of Industrial Research with intent to improve the quality of Asbestos Millboard. Careful research and investigation have been inaugurated, looking toward the development of new specifications covering each use to which millboard is put.

Walter R. Leventritt, Vice President and Treasurer of the Asbestos & Mineral Corporation, has returned from a business trip to Europe. He visited eleven countries and reports having had a very successful journey.

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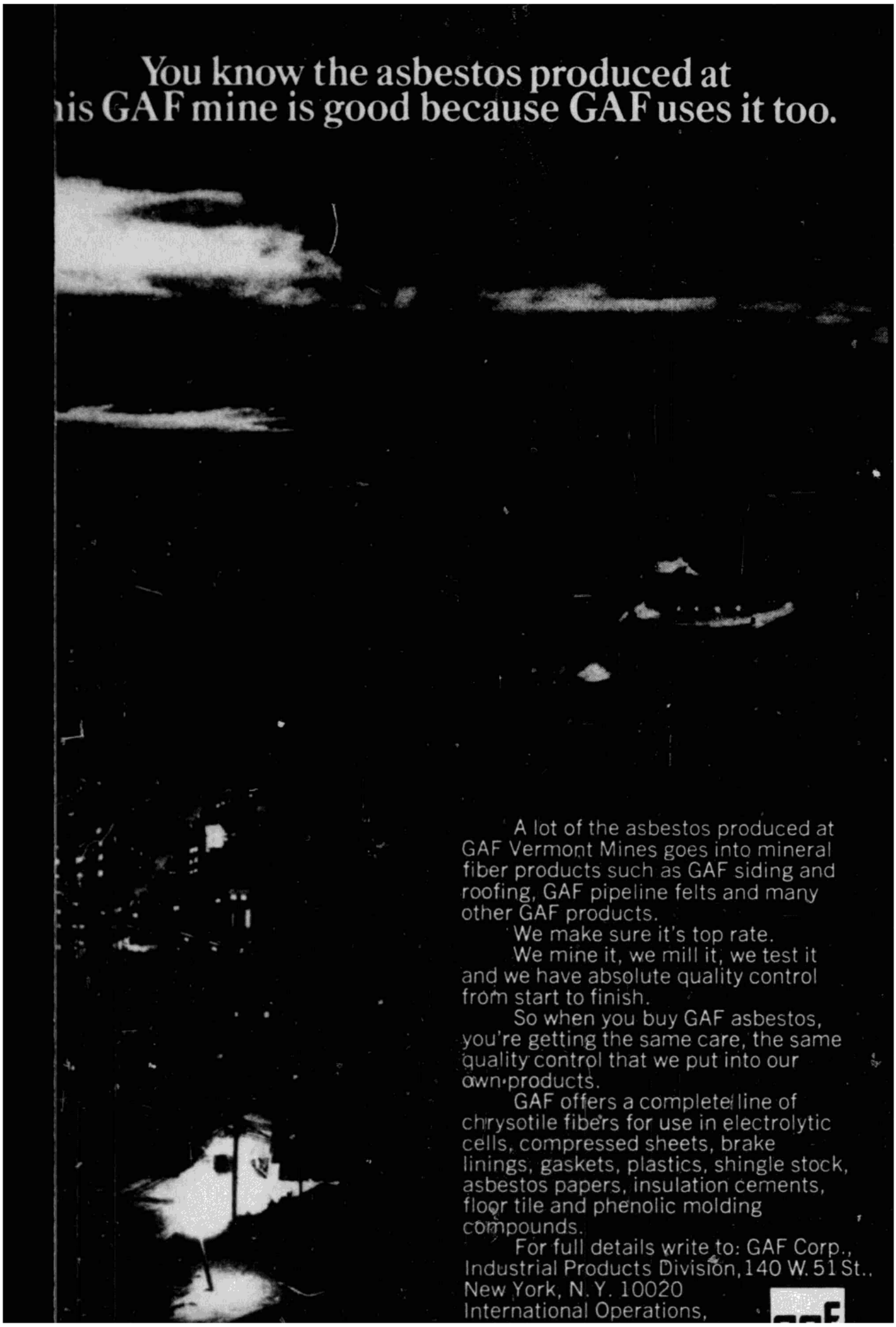
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