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# GARCO TEXTILE HISTORY

**April 1971**


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## CONTENTS

EDITORIAL ..... 2
HISTORY OF U.S. ASBESTOS TEXTILE INDUSTRY—
CHAPTER VII: GENERAL ASBESTOS & RUBBER CO. 4
INDUSTRIAL HEALTH/POLLUTION CONTROL ..... 14
PHILADELPHIA ASBESTOS—50th ANNIVERSARY .. 16
OUTLOOK FOR ASBESTOS IS GOOD ..... 22
MARKET CONDITIONS ..... 26
CONSTRUCTION NEWS ..... 30
MOTOR VEHICLE FACTORY SALES ..... 30
PRODUCTION—IMPORTS—EXPORTS ..... 32
BIRTHDAY GREETINGS ..... 40
MEN ON THE MOVE ..... 48
NOTES FROM 1970 ANNUAL REPORTS ..... 50
ASBESTOS STOCK QUOTATIONS ..... 54
NEW ASBESTOS PATENTS ..... 56
CALENDAR OF EVENTS ..... 58
REMEMBER WHEN? ..... 60

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*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 3 of 64
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## EDITORIAL

For some time we have been concerned with the many misleading or erroneous statements reported by various communications media to the effect that the manufacture and use of asbestos and asbestos-based products pose hazards to occupational and public health. Allegations that asbestos is a threat to the general public as well as to those occupationally exposed to its dust have been voiced by many groups, both public and private. Acceptance of the unfounded claims as "fact" has led to some large U:S. cities considering proposals to ban the use of asbestos-containing spray insulations used in building construction.

There has long been the need for a spokesman to represent the Asbestos Industry to present the known facts, as they are, based on extensive medical research.

We in the Asbestos Industry know that asbestos is a valuable material and that it greatly contributes to the comfort and safety of humanity. We also know asbestos does present certain occupational health hazards and that through improved industrial hygiene practices the Industry is effectively controlling the hazard to asbestos factory and mine workers. We know the Industry is cooperating to establish effective dust control in construction work. We know that the effects of asbestos are both dose and time related. And we know there is presently no evidence of a hazard to the general public from exposure to the minute amounts of asbestos that may be present in community air.

*BUT THE PUBLIC-AT-LARGE DOES NOT KNOW THESE FACTS!*

We are pleased to report that the Asbestos Industry has taken a positive step to meet the increased need for a competent, reliable source of accurate and complete information concerning the effects of asbestos dust on human health — Eight leading asbestos products manufacturers in the United States have organized the *Asbestos Information Association/ North America.*

The basic objectives of AIA/NA are to (1) provide an authoritative channel of communication, (2) publicly rebut irresponsible and uninformed criticism, and (3) disseminate information on the uses of asbestos in our modern technological society.

It was our privilege to attend a "background briefing" of AIA/NA where we were provided with factual informa-


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tion on this vital subject. Technical and medical experts were available to answer frankly any questions posed to them. Participants in the news conference were Harold McNabb, President of the Piping & Plastics Industries Division and Corporate Vice President of Certain-teed Products Corporation; William P. Raines, Director of Public Relations, Johns-Manville Corporation; Dr. George W. Wright, Director of Medical Research, St. Luke's Hospital; Dr. Fred L. Pundsack, Vice President for Research and Development, Johns-Manville; and Edmund M. Fenner, Director of Environmental Control, Johns-Manville.

Mr. McNabb is President of AIA/NA and Mr. Raines is Secretary. Member companies include Certain-teed, Johns-Manville, The Flintkote Company, GAF Corporation, National Gypsum Company, Panacon Corporation, Raybestos-Manhattan, Inc., and Woodward Corporation. A representative of each of these companies constitutes the Officers and Directors of the Association. AIA/NA operates from the offices of Hill and Knowlton, Inc., Public Relations Counsel, 201 East 42nd Street, New York, New York 10017.

It is to be hoped that this new organization will meet with success in achieving its stated objectives.





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# THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

## Chapter VII: General Asbestos & Rubber Company (now a division of Raybestos-Manhattan, Inc.)

**By: John A. Bettes, Jr.**

As edited by the Staff of ASBESTOS

The history of the General Asbestos & Rubber Company is a prime example of my premise that "the steam engine is the father of the asbestos textile industry."

In the year 1895 there was, in the City of Charleston, North Carolina, a busy industry known as the Charleston Iron Works. This company manufactured pumps and steam engines for the phosphate industry in South Carolina.

The predecessor company of General Asbestos & Rubber Company was the Charleston Metallic Packing Company. The founders were Samuel Hughes and George W. Williams. The State Charter issued July 18, 1895, described the firm as "a manufacturer of steam, hydraulic and other packings used in the mechanical arts." Its original and primary account was the Charlestown Iron Works.

The original factory was located on Cumberland Street near Meeting Street in downtown Charleston. The business grew steadily and it was recapitalized several times. Four additional downtown locations were used. By 1909 the management decided to produce its own asbestos yarn and cloth and Building #5 at Columbus and East Bay Streets was rented from the American Tobacco Company to house the original cards, spinning frames, twisters and looms.

On February 1, 1910, the Secretary of State authorized the changing of the name of the firm to General Asbestos & Rubber Company. The new Charter was issued to C. Bissell Jenkins, Sr., M. B. Barkley, J. P. Thomas and W. F. Taylor, being a majority of the Board of Directors.

By 1914 the business had outgrown the five downtown locations and Lockwood Green was commissioned to build a new plant on the present site at North Charleston, adjacent to the Charleston Naval Shipyard.

On May 1, 1916, Samuel Hughes II, son of the original founder, joined the company as an engineer. He was largely responsible for the continuing development of the Garco line


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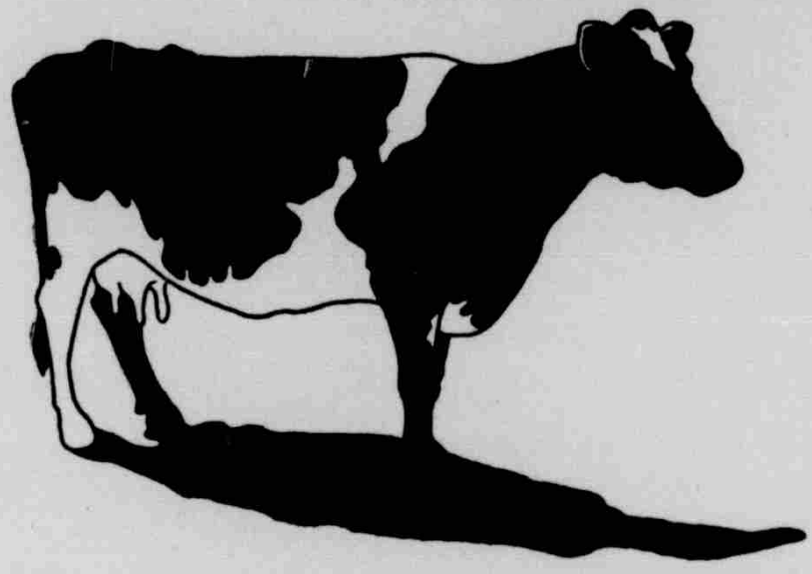
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of packings to keep abreast of the ever-changing needs of industry. Sam Hughes also innovated numerous improvements in the manufacturing processes and facilities. He served the division for 34 years.

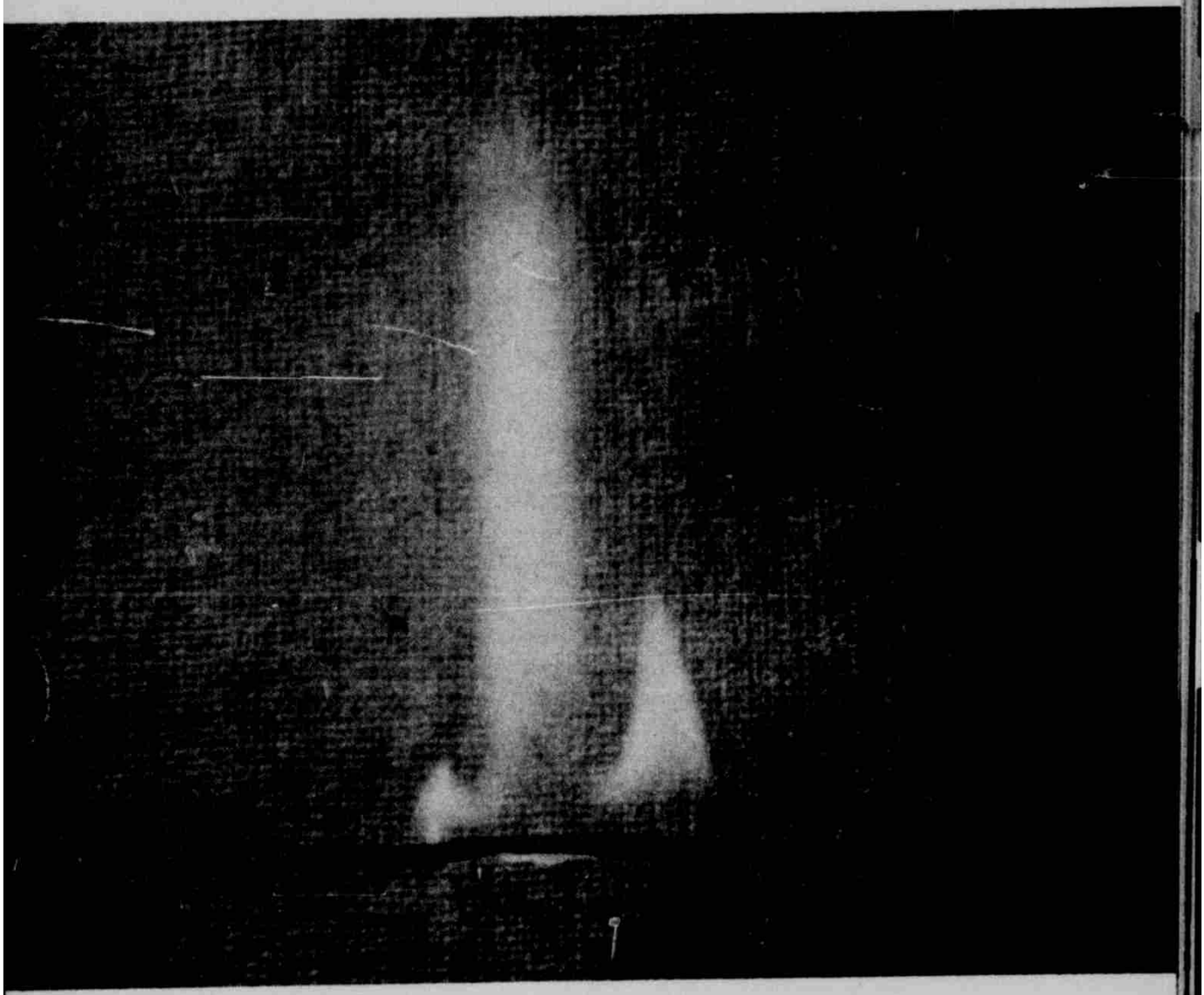
On October 15, 1922, Alvin F. Heinsohn joined Garco as a cost accountant and rose through the ranks to Assistant General Manager and later to General Manager of the division. He was elected a Director of Raybestos-Manhattan, Inc., in 1947 and a Vice President of the corporation in 1951. Al Heinsohn was much more than a Factory Manager to the town of North Charleston. He was a member of the School Board for many years and carried a major portion of the executive responsibility during the difficult days of World War II. The Charleston Naval Shipyard brought hundreds of families to North Charleston as temporary residents. The school system was operated on a two-shift per day basis with children attending classes either in the morning or in the afternoon. Al Heinsohn also had a keen interest in vocational education. He was, in addition, a sports enthusiast and the Garco baseball team won several industrial league state championships. In recognition of his years of service and leadership, the North Charleston High School stadium is named the "Alvin F. Heinsohn Stadium." Al Heinsohn was for many years a factor in local politics and still he found time to serve on the Boards of the First National Bank and the South Carolina Electric & Gas Company. Over the years he unquestionably did more to build General Asbestos & Rubber into a major factor in the industry than did any other individual. His death on July 13, 1967, terminated his association with Garco after 45 years of service to the firm.

By 1921 General had become a major supplier of asbestos metallic yarns to the rapidly expanding brake lining industry. The Charleston mill was also an important supplier of untreated brake lining tape. The Raybestos Company of Bridgeport, Connecticut, was a major customer. To insure a continuing source of supply for these essential components, Raybestos purchased a controlling interest in General in 1921. In 1924 Raybestos purchased Mr. Jenkins' interest in the company and thus achieved complete ownership of Garco. Raybestos-Manhattan was incorporated July 5, 1929, combining U.S. Asbestos Company of Manheim, Pennsylvania, and the Manhattan Rubber Company of Passaic, New Jersey. General Asbestos automatically became a division of R/M.


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On January 1, 1930, George F. Ducker joined General as a cost clerk. He rose to cashier, then Comptroller, and on August 9, 1967, he was appointed General Manager of the General Asbestos & Rubber Division. The following year George Ducker was elected a Vice President of R/M.

On June 16, 1935, Joel W. Frampton joined General as a bookkeeper. He was paymaster during the hectic days of World War II and was transferred to the Sales Department in 1945. Joel Frampton is well known in the trade as Southern District Manager of the Asbestos Textile Division. He is recognized in local art circles as a talented painter in oils.

In 1937 extensive facilities were added to the plant for the manufacture of the giant, rubber-covered rolls used in the paper industry. Facilities were also added for rubber lining pipes and tanks used in the paper and chemical industries. While these operations have no direct relation to asbestos textile manufacture they are very much a part of the complex manufacturing operations known as the General Asbestos & Rubber Division.

In 1939 Frederick Hughes, grandson of the founder of General Asbestos & Rubber, graduated from Clemson University and entered Garco's employ as a laboratory technician. In December 1941 Fred Hughes joined the U.S. Army Transportation Corps as a 2nd Lieutenant. After the war Major Hughes returned to the company and currently manages the Sales Service Department. Colonel Hughes has devoted his entire career to the Army and to the company founded by his grandfather in 1895.

In May 1941 Marion W. Oliver joined General as a clerk in the Supply Department. That same year he joined the U.S. Army and advanced to the rank of Captain. He returned to Charleston in 1946 to work in the research laboratories and later in the control laboratory. He was appointed Factory Manager in 1964 and Assistant General Manager in 1967. Marion Oliver has long been active in the affairs of the Asbestos Textile Institute.

In July 1942 Ernest W. Heinsohn joined Garco as a time study clerk. He was appointed Production Manager in August 1943, Assistant Factory Manager in May 1954, and Works Manager in October 1964. In addition Ernest personally supervised the Revolite Department. This department resin-impregnates asbestos cloth and converts the resinated


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fabric into roll covers for the huge flat-work ironers used in commercial laundries.

November 28, 1942, was a proud day at Charleston. This was the day Admiral Wat T. Cluverius presented the Army-Navy "E" Award to the General Asbestos & Rubber Division for "excellence of production." It was the first Army-Navy "E" earned by any R/M division and one of the earliest to be presented in the Charleston area. The Honorable L. Mendel Rivers was Master of Ceremonies. (Mr. Rivers had been a member of the U.S. Congress for 30 years, representing South Carolina, until his recent death on December 28, 1970.) The Navy erected bleachers on the company parking lot and the Navy Yard Band added to the festivities.

The years of American participation in World War II posed difficult days at North Charleston. The neighboring Charleston Naval Shipyard expanded from a standby force of only 6,000 men to a maximum of 25,000 during 1944. Obviously it was necessary for the Yard to draw heavily from local industries in order to assemble the greatly-expanded staff. The irony of the situation was that a major portion of Garco production during the war years went directly into the Navy's vast shipbuilding program. The Charleston facility wove all six of the then current Navy specification lagging cloths. In 1943 cloth production totaled in excess of 3,600,000 lbs. of which more than half constituted lagging cloth to Navy specification.

In addition, Garco was the number one supplier of asbestos components for heat and flame-resistant cable used in the Naval shipbuilding program. In 1943 asbestos roving production totaled 2,300,000 lbs. of which about 70% was used in Navy specification cable. In the same year the Charleston facility also produced 2,400,000 lbs. of Navy specification cable filler—the impregnated asbestos cord used to provide circularity of cross section in shipboard cable in the same manner that jute cord is used in ordinary power cable.

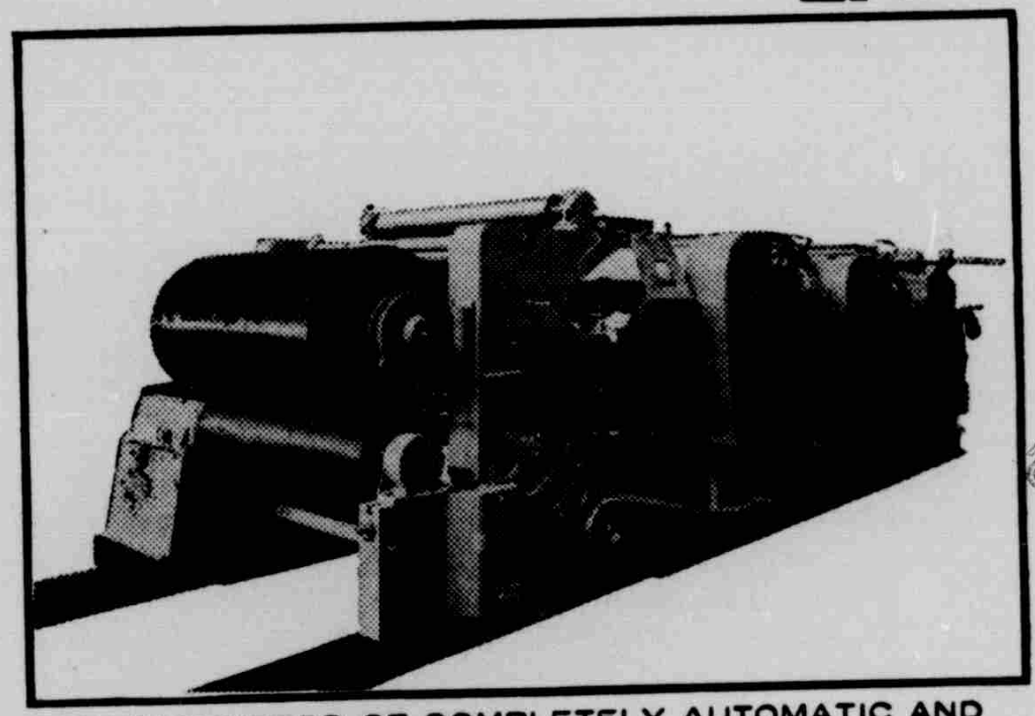
Despite these seemingly large Navy commitments Charleston was never able to satisfy the bottomless demands of the largest shipbuilding program in history. Manpower shortages prevented most departments from operating more than two shifts. Many departments operated 110 hours weekly on two 55-hour shifts. Hundreds of Garco people worked a grueling 10-hour day plus 5 hours on Saturday as their


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personal contribution to the war effort.

During most of World War II asbestos textiles were under 100% allocation by the War Production Board. Raybestos-Manhattan officials were seriously concerned over what they could do at war's end to provide employment for the war-expanded work force. Fortunately the enormous pent-up demand for civilian products kept the mill busy during the post-war period. Many employees who had accepted jobs in the mill as a wartime obligation gladly returned to normal civilian life. The transition from a war economy to a civilian economy was much less painful than had been anticipated and the General Asbestos and Rubber Division was able to continue its successful operation under the newly civilian-oriented conditions.

In June 1951, John W. Hawkins graduated from Clemson University as a Textile Engineer and immediately joined the research staff at North Charleston. During the ensuing twenty years he supervised the substitution of various synthetic fibers for cotton fibers in numerous asbestos blends. The new combinations of fibers provided improved physical properties to the fabric, such as greater strength and heat resistance. Numerous coated cloths were developed under John Hawkins' direction, to enhance the appearance and/or the wear resistance of asbestos fabrics.

Under Mr. Hawkins, as Director of Textile Research, the Division developed a new line of extruded asbestos yarns identified by the NOVATEX® brand name and a line of fabrics woven from this yarn and also known as NOVATEX® has only recently been introduced. Such fabrics having an asbestos content of 99-100% exhibit tensile strengths higher than those of conventional asbestos fabrics of twice their weight per square yard as well as improved flexural characteristics and exceptional resistance to high temperatures.

Here we have an example of a company that was a pioneer in the asbestos textile business which survived the vicissitudes of two great wars and the depression of the 1930's and, albeit under a different name, is still contributing heavily to the technological advancement of its industry.

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**Next Issue . . . .**

Chapter VIII: The Raybestos Company

Chapter IX: Mikesell Brothers Company


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### DUN & BRADSTREET SURVEY

The Marketing Services Division of Dun & Bradstreet, Inc., began a national survey to determine what steps are under way to control industrial pollution. Its aim is to show manufacturers of pollution controls where these products are planned or in use.

### SCHUTTE & KOERTING CATALOG

Air Pollution Catalog 7R, with engineering data on air pollution control systems, is available from Schutte and Koerting Company (Canada) Ltd., Kitchener, Ontario. Several types of systems are described in the catalog such as gas or fume scrubbers, separators and scrubber-separator systems. Also included are fume scrubber inquiry survey forms and two case histories concerning the solving of particular problems—sulphur monochloride fumes and sulphur dioxide gas.

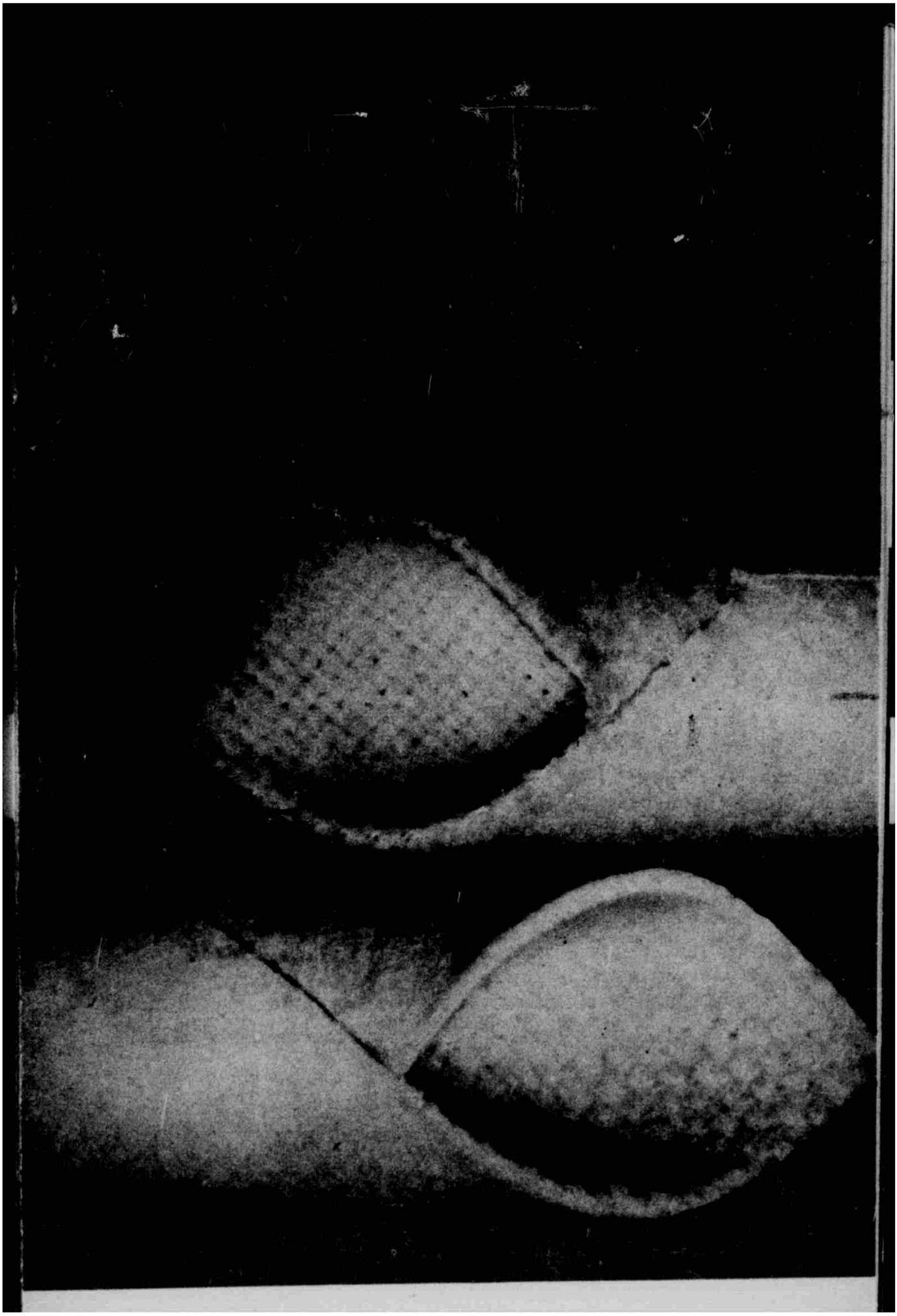
### WILLSON RESPIRATORS

The U.S. Bureau of Mines has approved the new, improved R1200 Series dual cartridge respirator available from Willson Products Division, ESB Inc., Reading, Pa. The respirator offers integrally molded threads for the cartridge holders to accept the R1200 series of screw-in protective cartridges and filters. A snap-on dust or paint prefilter allows easy replacement of the filter and longer life to the cartridge. Larger chemical cartridges insure lower breathing resistance and extended life and the newly-designed outlet valve minimizes exhalation resistance and valve failure and presents gases or particulates from entering the mask during heavy breathing.

Willson also introduced the 1150 Monomask 2, a new-design respirator approved by the Bureau of Mines that offers a flexible black molded rubber ¾ face piece and an increased field of vision.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 16 of 64
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## PHILADELPHIA ASBESTOS

### Celebrates Golden Anniversary

Philadelphia Asbestos Corporation has been operating for 50 years, serving the insulation requirements of the Greater Delaware Valley, Lehigh Valley and Southern New Jersey.

Founded in 1921 by the late Edmund R. Teubner, the then Philadelphia Asbestos Company was a small shop at the corner of 10th and Norris Streets in Philadelphia. Now the varied activities of the firm are spread over more than 40,000 square feet and according to C. Branton Wheatley, President and Treasurer, the operating space is still inadequate.

Originally confined to pipe covering, the company now covers the spectrum of insulation, including industrial distribution of the products of Johns-Manville Corporation, Benjamin Foster Company and Pittsburgh-Corning Corporation.

The "Men On The Move" section of this issue announces executive changes at Philadelphia Asbestos. Commenting on the new table of organization, Mr. Wheatley describes it as "an updating of our executive structure to match the diversification and growth of our business in recent years."

## J-M NEWS NOTES

A new line of ceramic-faced cones for mechanical seals was introduced by Johns-Manville Corporation for service in all sewer applications and for any other service containing solids, fines or grits. The cones are said to offer longer wear than seals faced with ordinary metal . . . The Los Angeles County Road Department recently published the results of a study on the use of asbestos as an asphalt pavement additive. Several proprietary products were evaluated and the asbestos/asphalt mixtures were the only materials to be rated good or excellent at all locations after a 30-month evaluation period . . . . J-M is offering the latest technical information on HEAF in a folder entitled "HEAF—Hi Energy Air Filter" . . . TYPE FL, a new rotary and rod scraper oil seal, has been developed by J-M for use in industrial and automotive applications. Its simplified construction offers improved sealing over conventional molded types.



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## GAF® ASBESTOS-CEMENT SHEETS

Technical Bulletin 6130-021 describes the line of corrugated asbestos-cement sheets available from the Industrial Products Division of GAF Corporation, New York City.

GAF corrugated asbestos-cement sheets provide economical and long-lasting roofs and sidings for industrial, commercial and institutional buildings. Scientifically cured under high steam pressure (autoclaved), they are made of Portland cement, silica and asbestos fibers and cannot ignite, burn, contribute to combustion or produce toxic smoke or fumes. They have full zero rating (combustibility, flame spread, smoke production) by Underwriters' Laboratories.

The bulletin also describes GAF PANELSTONE® asbestos-cement flat sheets for exterior and interior applications. High tensile and rupture strengths result from the combination of long, strong asbestos fibers and Portland cement, both completely incombustible materials.

Additional data and specifications are given in the brochure concerning standard fasteners, filler strips, cut corner sheets and ridge roll and battens.

## MONSANTO AL-KOTE

A new, low-cost, general-purpose reflective coating has been introduced by Monsanto Company, El Dorado, Arkansas. It covers metal, wood and concrete with a handsome aluminum-impregnated protective coat having an effective life of 15-20 years. The material can be conventionally applied with a brush, roller or spray gun.

One of the nationally-marketed Lion Nokorode line of protective coatings, the new product is named AL-KOTE "the fat aluminum coating." The description arises from the extra thickness of the coating — 6-8 times that of ordinary paint. It contains asphalt and long-fibered asbestos as well as reflective aluminum. The aluminum pigment is dispersed uniformly as tiny flakes throughout the thick asphalt-asbestos material and when weathering does strip away the topmost layer, another layer of reflective aluminum is exposed.



*Asbestos Magazine, 1971, April 1971*
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Previously constructed entirely of stainless steel, the patented Bauer Hydrasieve is now available with a strong, molded, one-piece fiber glass frame. The selling price of the new model is approximately 15% lower than that of the comparable all stainless steel model. It reduces the weight of the unit with no sacrifice in strength, ruggedness or capacity, helps to provide improved sanitation control in many applications and facilitates screen changing.

Manufactured by The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc., the Hydrasieve is a simple, highly efficient screening device for removing solids from low consistency slurries. It has rapidly gained acceptance due to its comparative low cost, efficiency in removing or recovering suspended solids formerly lost in effluent and helping to improve processing operations and the control of pollution. It has no moving parts, no motors or pumps and can be gravity fed. The exclusive, non-blinding Marvel® screen is furnished in stainless steel on all Hydrasieves.

## SPROUT-WALDRON BROCHURE

A Slider-Board Belt Conveyor that efficiently handles many types of bulk materials is detailed and illustrated in revised Bulletin No. 2520, available from Sprout, Waldron & Company, Inc., Muncy, Pennsylvania.

The conveyor is particularly desirable for handling large quantities of materials which other types of conveyors would break or fracture. It is ideal for use in production areas where a minimum of head room is available. The unit provides smooth travel with a minimum of frictional resistance and can be installed on an inclined or down slope or used in the horizontal position. It is available in belt widths of 16″ and 20″ and can be utilized in lengths of up to 250 feet.

The conveyor is often employed as an inspection table, providing an efficient method of carrying the product over a desired distance and at the same time permitting inspectors to safely remove defective material by hand.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 22 of 64
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But we want to be certain the particular grade of asbestos you need meets your requirements for uniformity.

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And people test each batch.

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

Gold Bond
ASBESTOS FIBRES




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# OUTLOOK FOR ASBESTOS IS GOOD

**By: S. Stachelski**

[Mr. S. Stachelski is Managing Director of Valley Asbestos (Pty) Limited, Johannesburg, an exporter of South African Asbestos Fibers. He has offered for publication the following forecast for the world-wide Asbestos Industry, based on information that appeared in the "Canadian Mining Journal" and on observations made during his round-the-world tours, as well as his intimate knowledge of world markets for asbestos.]

The future of asbestos in world markets looks very promising and the balance of world production vs. consumption is expected to continue, with an average minimum growth of 4% per annum. Many expansion programs have been initiated by Canadian mining companies. Other firms around the world have announced development or expansion plans at their mines and plants, such as General Mining & Finance Corporation Ltd., The Cape Asbestos Co. Ltd., The Eternit Group (including Everite and Asbesco in South Africa) and Turner & Newall Ltd. These companies successfully sold their entire 1971 production and the Smit Group of Mines, represented by Valley Asbestos, has already sold its total planned Blue asbestos output for 1971 *and* for 1972. In fact, all of the South African producers are so fully committed that in most cases they are declining to quote on inquiries for additional and substantial tonnages of Chrysotile, Crocidolite (Blue) and Amosite. In previous years the market for asbestos was a "buyers" market but a significant change to a "sellers" market has occured since the end of 1969. As a result some of the larger end users of asbestos fiber have ensured their fiber supplies in advance by entering into long-term contract agreements.

A shortage of asbestos fiber is noted in the Western world due to demand surpassing present and future production potential. The USSR is utilizing its asbestos fiber in building construction and irrigation projects. In the developing countries in Central and South America, Africa and the Middle and Far East, the demand for asbestos is constantly on the increase. The rapid growth of the asbestos-cement industry in the Republic of South Africa prompted the establishment of the South African Asbestos-Cement Products Manufacturers' Association, with its main objective to encourage wider use of asbestos-cement products throughout the country.

Asbestos fibers are playing an important role in Japan's


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# AMMANN Asbestos Mill



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

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

## U. AMMANN Ltd.

**Engineers** **CH 4900 Langenthal** **Switzerland**

Cables: Ammannag Langenthal — Telex: Nr. 68446

rapid industrial growth. Japan ranked asbestos as 8th among the raw materials most needed by Japanese industry. Approximately 261,000 short tons of asbestos were purchased by Japan in 1969. Consumption is expected to rise about 12.5% each year so that the country's planned purchases of asbestos in 1975 should be approximately 50% more than in 1970.

Prices of various grades of Chrysotile asbestos as set by leading Canadian producers are largely followed by producers of Chrysotile in other parts of the world; the USSR, however, follows its own price policy. Chrysotile prices have gradually increased over the years to keep up with the rising production and other costs. The 1970 prices averaged about 30% over those in 1960.

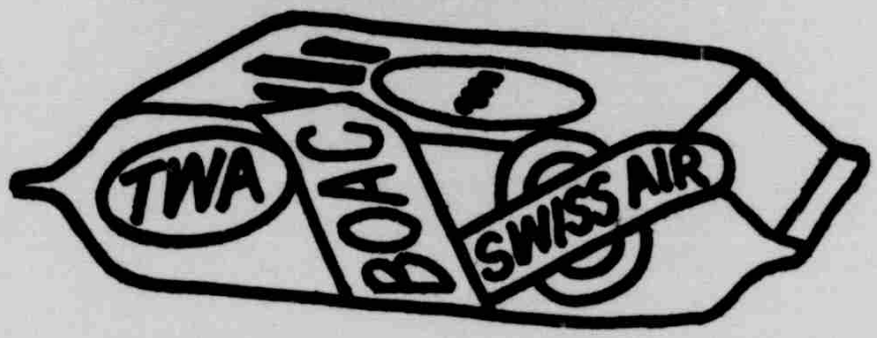
Blue asbestos is produced only in South Africa, and in comparatively limited quantities. The price of Blue fiber was static between 1950 and 1960 but gradually decreased during the years from 1961-68. 1968 prices averaged out to at least 20% below those in 1960. Increases have been recorded since 1969—1970 prices were from 4% to 7% over 1969 and 1971 prices are about 6% over 1970, but still below the average 1960 prices. The low margin of profit and the constant rise of production and transport costs fully justify the gradual increase of Blue fiber prices simultaneously with future increases in prices for other types of asbestos. Approximately 132,000 short tons of Blue asbestos were produced in 1969 (probably 145,000 during 1970), representing about 2.9% of the total world production of all varieties of asbestos, including the USSR output. The prices for Amosite asbestos in 1970 averaged about 11% over those in 1960. The Cape Asbestos Co. Ltd. controls approximately 95% of the total world production of Amosite. Amosite is produced only in South Africa and output reaches over 100,000 short tons per year.

For the longer term, to 1975, the world outlook is strong and a steady growth of both consumption and sales is forecast. That demand should increase is indicated by the fact that numerous patents are continually being granted involving new asbestos applications in new or improved products. The bright outlook is confirmed by accounts of numerous projects utilizing asbestos cement. Some of the projects are already completed and in operation in at least 20 countries throughout the world.



Asbestos Magazine, 1971, April 1971
ACL Doc 12648 · Page 26 of 64
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# The Worldly Asbestos




Carey-Canadian Mines, Ltd., one of the world's largest producers of asbestos fibre, can serve your needs around the world. Overseas sales agents are listed below. Additional information may be obtained by writing to Dept. 00-0000, Carey-Canadian Asbestos, Division of Panacon Corp., P.O. Box 15070, Cincinnati, Ohio 45215.

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| | |
|---|---|
| Mt. Waverly, Victoria, Australia | K. V. Robinson & Ass. Pty., Ltd. |
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| Copenhagen, Denmark | Andreas Jennow A/S |
| London, England | Central Asbestos Company, Ltd. |
| Helsinki, Finland | Oy Max Aue |
| Duisburg, Germany | Duetsche Asbest-Gasellschaft G.m.b.H. |
| Lubeck, Germany | Possehl Erzkontar |
| Athens, Greece | A. D. Papachristopoulos & Company |
| Calcutta, India | Expert Agency Service Private, Ltd. |
| Tel-Aviv, Isreal | K. J. Deutsch |
| Torino, Italy | Franco Rol |
| Tokyo, Japan | T. Kakiuchi & Company, Ltd. |
| Seoul, Korea | Bryony Corporation |
| Mexico City, Mexico | Productos Quimicos Mardupol, S.A. |
| Haarlem, Netherlands | Chemische Productenhandel J.J. Van De Vrande |
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# MARKET CONDITIONS

## GENERAL BUSINESS

While most statistics indicate an improvement in general business, the rate of improvement is considerably lower than that previously targeted by the Administration. The result is that, except for a few specific areas, the economic picture is still anything but rosy. One of the brightest spots is the burgeoning demand for housing due in part to the rapid and substantial drop in interest rates. Consumer spending has also shown signs of strength indicating a revival of confidence on the part of the man in the street despite the continuing high rate of unemployment and the general lack of overtime work in most industries.

Congress' decision to halt further work on the SST will have an adverse effect on employment in the already depressed aerospace industry but, more important, could portend a general de-emphasis of the scientific and technological research and development on which so much of our economy has been based.

Indications are that Government action will soon be taken to limit wage increases in the construction industries. In view of the failure of fiscal and monetary restraints to control inflation to the extent deemed desirable, direct wage controls are receiving increasing consideration as a means to that end. The construction industry would seem to be a logical starting point for such controls but proponents of the scheme are strongly advocating across-the-board limits on all wages and salaries as the one best way to halt the inflationary spiral.

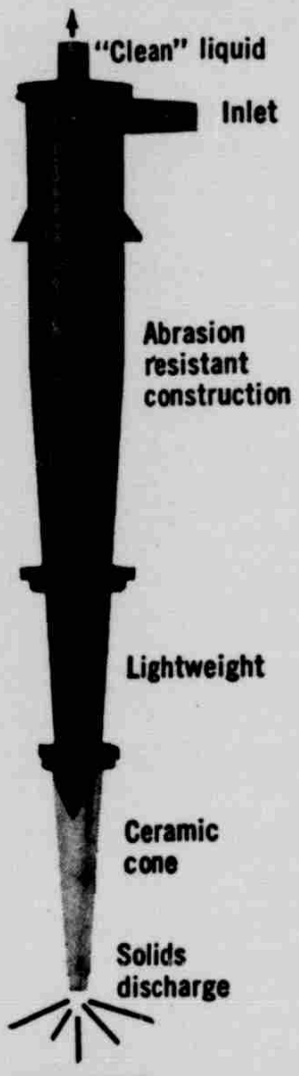
## ASBESTOS FIBER

The final figures for 1970 covering Canadian shipments of asbestos fiber are not yet available but based on preliminary indications, it is expected the tonnage will exceed 1969 by approximately 4% to 5%, or from the level of 1.60 million tons to 1.66 million tons. As indicated previously, the major increases in 1970 vs. 1969 resulted from higher demand from the international markets, with domestic markets being substantially weaker.

The asbestos market was erratic in 1970. First, in the domestic market (including Canada and the United States), the downward trend of the economy had a direct impact on


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These efficient cleaners can often do the job of high cost centrifuges at a fraction of the cost. Capacities from 20 GPM. Write for Bulletin G-33. The Bauer Bros. Co., Springfield, Ohio 45501 and Brantford, Ontario.

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asbestos fiber demand in almost all areas of usage. In addition, the very high incidence of work stoppages resulting from strikes in such key areas as construction, automotive and various of the major building product lines, reduced the demand for asbestos. It is a basic fact that the loss of business resulting from a work stoppage is never regained during the year in which it occurs.

Demand in the international market has been quite different from the pattern experienced in the domestic market and can be classified as "strong." Specific countries in the world can be designated as having a booming demand for asbestos during the past year, namely, Australia, Japan and Brazil. In general, the markets in Europe, the Asian countries and in South America were good, with the balance being about average.

To date in 1971, demand has continued the somewhat stronger trend which commenced in August 1970. All segments of the asbestos fiber market should show an increasing upward trend in 1971 in both Canada and the U.S.

The market for Arizona filter fiber continues very strong.

## ASBESTOS—MANUFACTURED GOODS

*Asbestos Textiles*—Demand and production capacity have come into somewhat closer balance recently and certain items, previously in short supply, can now be delivered promptly. An increase in demand is predicted for the balance of this year.

*Asbestos Brake Lining*—The current market for friction materials is strong and the outlook for the rest of the year is good. While domestic car builders are lowering their previous estimates of a ten million car year, sales are proceeding at a rate which should insure a good year for brake lining manufacturers.

*Asbestos Paper*—Some improvement in this market was evident during the first quarter. Volume was steady to higher and the level of prices moved upward. Business is expected to improve in coming months.

*Asbestos Millboard*—As in the case of asbestos paper, the market for millboard showed signs of improvement and prices moved upward during the first quarter. Further improvement in demand is expected this year.

*Asbestos Felt*—During the first quarter, demand for this material was slightly less than in 1970 and prices were soft.


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The outlook for the balance of the year is for increasing sales at better profit margins.

*Asbestos Corrugated & Flat Sheets*—The early months of 1971 showed an increase in sales over the corresponding 1970 periods. The pickup in the construction industry has improved the outlook for asbestos-cement sheets and the current year should be somewhat better, volume-wise, than 1970.

*High Pressure Insulation*—The market for high pressure insulation varies from steady to slow depending on the geographical area involved. However, with continued expansion of public utilities' power plants the outlook for the future is good.

*Asbestos-Cement Shingles, Roofing & Siding*—Sales of siding leave much to be desired but roofing materials are selling well. Recently reported upsurge in housing demand should result in some improvement in this market.

*Asbestos-Cement Pipes*—The market for pipes of all types shows continuing improvement. If housing starts continue at the present planned rate the demand for pipe should increase substantially in months to come.

**The above comments have been made by various informed executives in the industry. All comments are welcome.**


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**Telex: 359-458** **Cable Address: Chrysotile**

## CONSTRUCTION NEWS

**From: McGraw-Hill Information Systems Company**

FEBRUARY 1971—A surge of heavy construction projects lifted the Dodge Index of construction contract value 8% above the January rate to 126 (1967=100). The total value of contracts for future construction was $4,993,-163,000, one per cent less than last February.

The index in February fits the pattern of a continuing recovery in construction markets that had its beginning around mid-1970. Compared with the strong flow of new construction projects at this time last year, which was before 1970's severe reversal, the current February contracts were approximately even in total but quite different in make-up.

*Nonresidential* building value, at $1,654,461,000, was 22% below last February's total, with the biggest gap appearing in industrial construction.

*Residential* building contracts, by contrast, were 25% above the figure for last February and totaled $1,817,931,000.

*Nonbuilding* construction was close to the year-ago amount, showing a 3% increase to $1,520,771,000. Electric utility projects were sharply ahead and highway construction was significantly down.

*Cumulative* construction contract value for the first two months of 1971 totaled $9,376,026,000: Nonresidential, $3,362,177,000, down 22%; Residential, $3,455,074,000, up 20%; and Nonbuilding, $2,558,775,000, down 5%. This year's total was 5% less than that for the same period in 1970.

## MOTOR VEHICLE FACTORY SALES

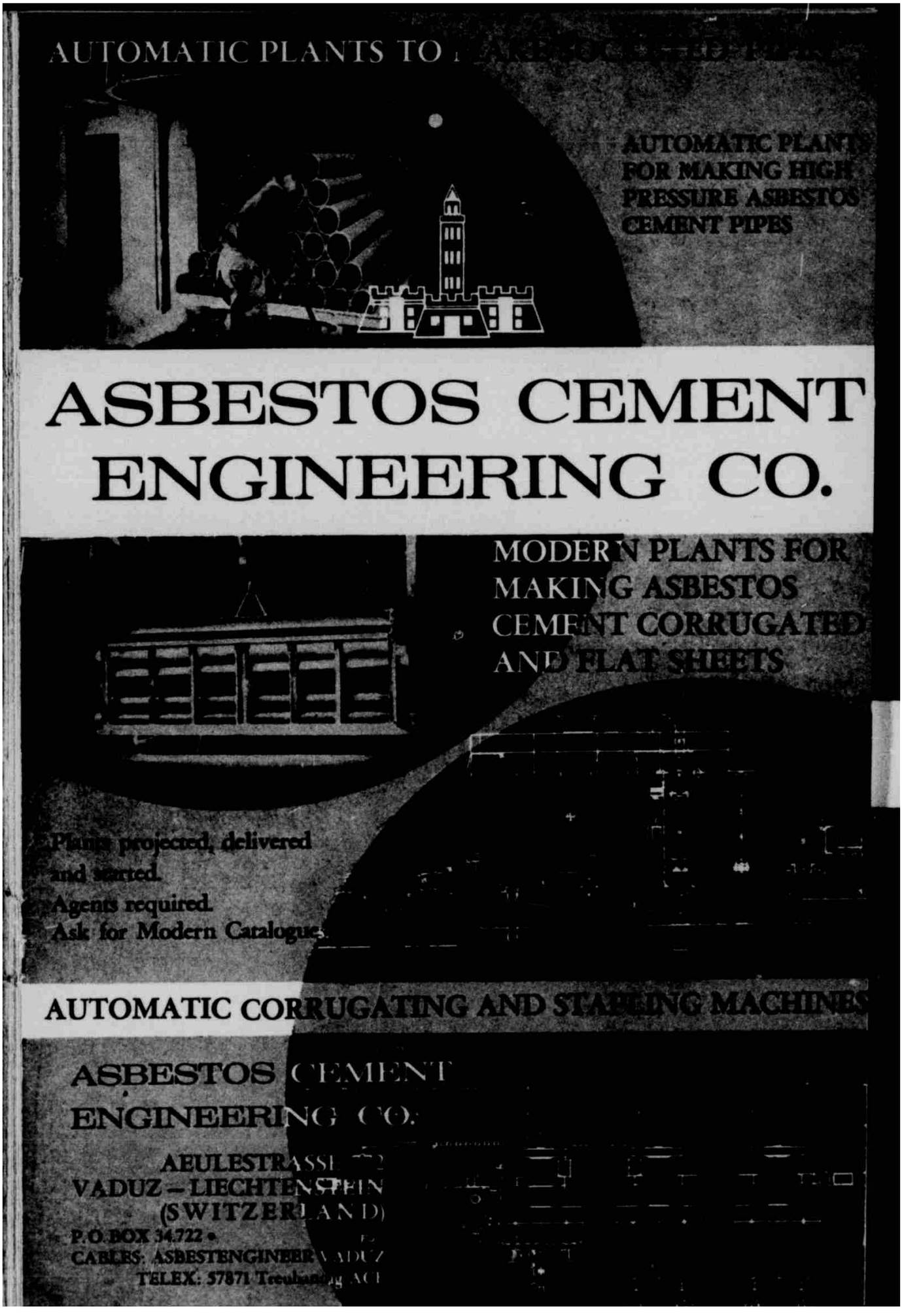
JANUARY 1971 motor vehicle factory sales from plants in the *United States* totaled 860,615 (passenger cars—710,735; trucks and buses—149,880). The total figure for January 1970 was 719,105.

Motor vehicle factory sales from plants in *Canada* totaled 92,194 in January 1971 compared to 101,023 in January 1970. [Automobile Manufacturers Association]



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 32 of 64
Published by AsbestosClaims.Law
asbestosclaims.law/library/12648/32

AUTOMATIC PLANTS TO



# PRODUCTION—IMPORTS—EXPORTS

**Canada**—Producer's shipments of asbestos during *December 1970* totaled 166,606 short tons (140,081 tons from Quebec plants and 26,525 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for December 1969 was 169,260 tons.

Producers' shipments of asbestos for the *Year 1970* totaled 1,663,355 short tons (1,369,135 tons from plants in Quebec and 294,220 tons from plants in the other four Provinces). The total for the Year 1969 was 1,576,876 tons. [Dominion Bureau of Statistics, Ottawa]

**Canada**—Production of vinyl-asbestos tile during the *Year 1970* totaled 162,328,541 square feet (74,425 short tons), compared to 188,750,488 square feet (87,647 tons) for the previous year.

Imports of vinyl-asbestos floor and wall tiles reached 420,327 square feet, valued at $37,000, for the period *January-September 1970*. This compares with 1,771,506 square feet, valued at $114,000, for the like 1969 period. [Dominion Bureau of Statistics, Ottawa]

**Cyprus**—Production of asbestos for the *Year 1970* totaled 28,253 short tons, valued at £1,564,445. [Ministry of Commerce & Industry, Nicosia]

**Republic of South Africa**—Production of asbestos for the *January-September 1970* period totaled 210,545 metric tons (Amosite, 71,114 tons; Cape Blue, 97,262 tons, Chrysotile, 38,527 tons; Transvaal Blue, 3,642 tons). The total for the same nine-month period in 1969 was 190,866 tons.

Exports of asbestos for period *January-September 1970* reached 180,480 metric tons, valued at R21,607,366, compared to 169,292 tons, valued at R20,838,994, for the like 1969 period. A breakdown of the 1970 totals is as follows: Amosite, 68,990 tons, R7,134,129; Cape Blue, 84,456 tons, R12,101,173; Chrysotile, 23,449 tons, R1,854,893; Transvaal Blue, 3,585 tons, R517,171. [Department of Mines, Johannesburg]

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**Canada's Mineral Production**—The Dominion Bureau of Statistics, Ottawa, has issued its annual "Preliminary Report of Mineral Production 1969" which includes statistics on asbestos production for 1968-69, tonnage of ore mined and rock quarried from 1962-67, producers' shipments from 1941-69 and exports from 1960-69. [Catalog No. 26-203; 75c]



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 34 of 64
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## IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census — Short Tons

| *Unmanufactured Asbestos:* | NOV 1970 | DEC 1970 |
|---|---|---|
| Amosite, South Africa | 330 | 1,660 |
| Crocidolite (Blue), South Africa | 340 | 520 |
| Chrysotile, Crude, United Kingdom | .. | 90 |
| Chrysotile, Spinning Fibers, Canada | 1,302 | 656 |
| Chrysotile, Other, Canada | 48,902 | 51,539 |
| Finland | 10 | .. |
| Mexico | .. | 100 |
| Other Crudes & Fibers, Canada | 50 | 16 |
| Finland | .. | 68 |
| South Africa | 100 | 100 |
| | 51,034 | 54,749 |

*November* unmanufactured asbestos imports were valued at $6,125,408.

*December* unmanufactured asbestos imports were valued at $6,691,486.

| *Manufactured Asbestos Goods:* | | NOVEMBER 1970 | |
|---|---|---|---|
| Asbestos Yarn, Slivers, etc. | Lb | 311,894 | $ 276,346 |
| A-C Pipes, Tubes & Fittings | Lb | 3,586,286 | 180,472 |
| Asbestos-Cement Articles, Other | Lb | 2,255,649 | 241,227 |
| Asbestos Articles, Others | | .. | 223,349 |
| | | | $ 921,394 |

| | | DECEMBER 1970 | |
|---|---|---|---|
| Asbestos Yarn, Slivers, etc. | Lb | 259,240 | $ 318,897 |
| A-C Pipes, Tubes & Fittings | Lb | 6,703,591 | 302,813 |
| Asbestos-Cement Articles, Other | Lb | 2,350,331 | 319,417 |
| Asbestos Articles, Other | | .. | 224,885 |
| | | | $1,166,012 |

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**ASBESTOS FIBRES**

**ASBESTOS WASTE**

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Telephone (213) 245 1746

## EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census — **DECEMBER 1970**

*Unmanufactured Asbestos:*

| | | | |
|---|---|---|---|
| Crude & Spinning Fibers | s. tons | 382 | $ 81,653 |
| Non-Spinning Fibers | s. tons | 550 | 68,415 |
| Waste & Refuse | s. tons | 1,151 | 123,288 |
| | | 2,083 | $ 273,356 |

*Manufactured Asbestos Goods:*

| | | | |
|---|---|---|---|
| A-C Shingles & Clapboard | Lb | 1,660,604 | $ 162,609 |
| Other Asbestos-Cement Articles | Lb | 235,668 | 42,963 |
| Asbestos Gaskets | Lb | 36,720 | 44,321 |
| Asbestos Packing | Lb | 265,251 | 335,285 |
| Asbestos Heat or Sound Insulation | | .. | 227,833 |
| Asbestos Textiles & Yarns | Lb | 416,900 | 154,525 |
| Asbestos Protective Clothing | | .. | 2,742 |
| Mfrs. Other Than Friction Materials | | .. | 249,382 |
| Clutch Facings & Linings for Auto. Use | No | 67,918 | 65,199 |
| Clutch Facings & Linings, Other | No | 102,778 | 38,635 |
| Brake Linings for Automotive Use | Lb | 469,688 | 333,412 |
| Asbestos Brake Linings, Other | Lb | 182,916 | 186,005 |
| | | | $1,842,911 |

## EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics — **DECEMBER 1970**

Short Tons

| *Unmanufactured Asbestos:* | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe | 2 | 872 | 19,025 | 13,206 |
| Eastern Europe | .. | 70 | 4,760 | 140 |
| Middle East | .. | .. | 1,663 | 204 |
| Africa | .. | .. | 100 | .. |
| Asia | .. | 345 | 18,588 | 21,035 |
| Oceania | .. | .. | 6,118 | 2,733 |
| So. & Cen. America & Antilles | .. | 80 | 5,384 | 4,018 |
| United States | .. | 880 | 14,658 | 29,883 |
| | 2 | 2,247 | 70,296 | 71,219 |

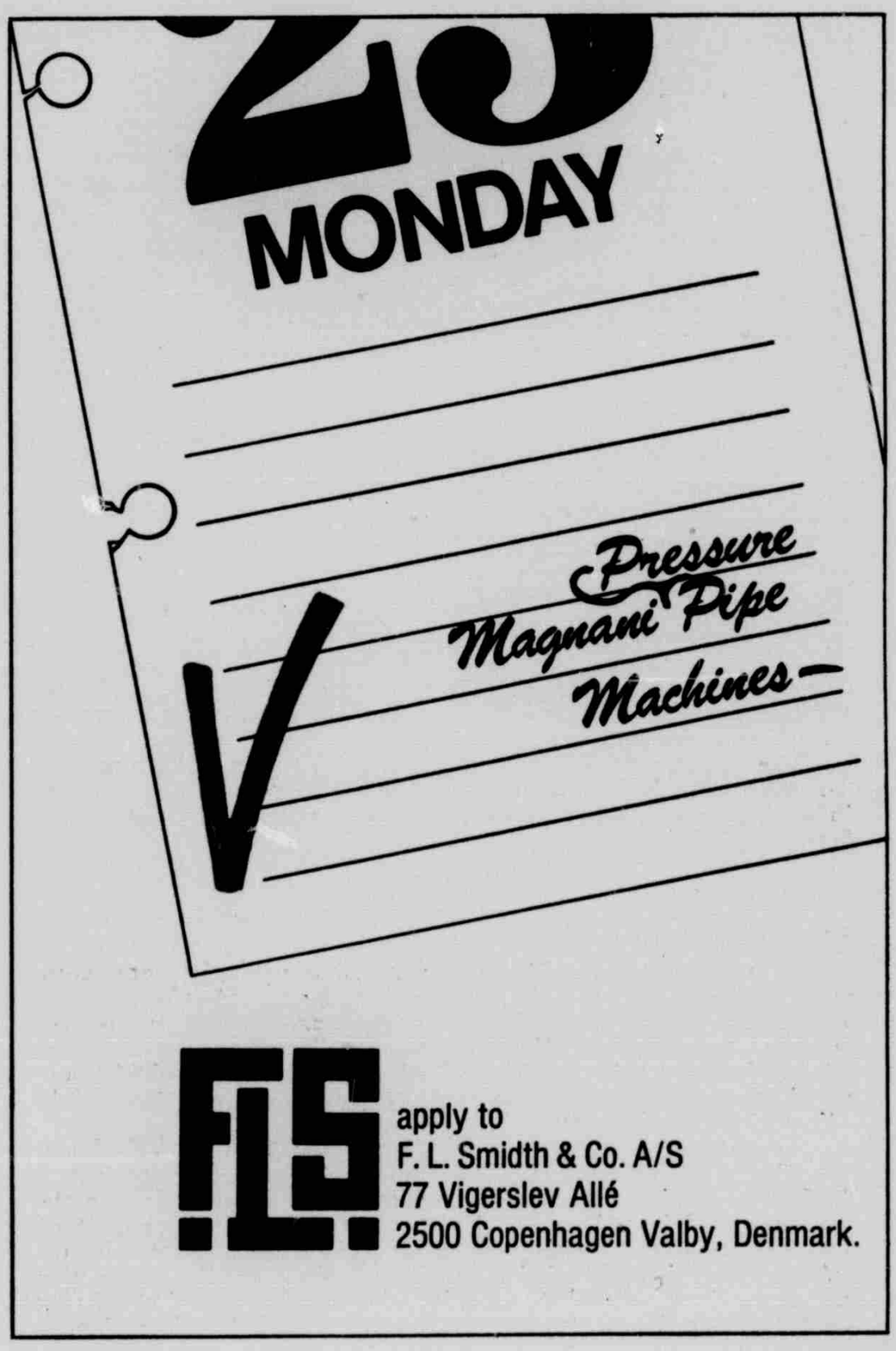
The total amount of unmanufactured asbestos exported in December 1970 was 143,764 short tons, valued at $20,018,000.

*Manufactured Asbestos Goods:*

| | |
|---|---|
| Asbestos Brake Lining & Facings | $ 147,000 |
| Asbestos-Cement Building Materials | 213,000 |
| Asbestos Basic Products, Other | 139,000 |
| | $ 499,000 |



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 38 of 64
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asbestosclaims.law/library/12648/38







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## INDUSTRIAL EXPANSION IN JAMAICA

**Jamaica Industrial Development Corporation** reported that significant expansion of existing industrial facilities took place in Jamaica last year. According to U.S. Director William G. Whiting, more than $7 million was invested in new plants and equipment by companies operating in such fields as chemicals, leather goods, pharmaceuticals, stationery, appliances, furniture, electrical products and building materials.

The largest of the expansion projects was that of **Caribbean Asbestos Products Ltd.,** an asbestos-cement pipe manufacturer located in Kingston. The company completed a new $3 million plant in October as part of a long-range $14.4 million expansion program financed 70% by local capital.

## CANADIAN CONTRACT AWARDED

**Fournier Steelworks Ltd.,** Black Lake, Quebec, was awarded a $335,000 contract to supply 51 vibrating screens to Chrysotile Corporation of Australia Pty. Ltd. The screens will be used to separate and grade the asbestos fiber at the new asbestos mine and mill complex being constructed at Barraba, New South Wales. The mill is due for completion next January and work is progressing according to schedule and within budget.

A wholly-owned subsidiary of Woodsreef Mines Ltd., Chrysotile Corporation is controlled by **Pacific Asbestos Ltd.,** Calgary, Alberta, Canada. Fournier is one of the only two companies in Canada that manufacture vibrating screens.

The announcement was made by Robinson Perrin and Associates, Toronto, which has a $14.9 million contract to develop the complex. Subcontracts for over 40% of the total value of the project have been awarded.

## EXPLORATION IN CANADA & NIGER

**Watts, Griffis and McOuat,** consulting geologists and engineers based in Toronto, has been retained by the Metallic Mineral Exploration Agency of Japan. The assignment calls for regular reports to the Agency's Mineral Resources Center on the Canadian mineral industry, with special emphasis on exploration activities and on changes in Canada's economic and political climate that might affect mineral exploration.

In addition, an agreement has been signed between WGM and the Canadian International Development Agency to carry out a $225,000 geological mapping and economic evaluation project in the Republic of Niger, West Africa. Sponsored by CIDA as part of Canada's program to assist developing nations, the project calls for WGM to provide all technical services required for the exploration and evaluation of phosphate potential, with the objective of identifying an exploitable deposit to form a base for a local fertilizer plant.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 40 of 64
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# FLINTKOTE ASBESTOS



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# BIRTHDAY GREETINGS TO . . .

R. M. Bateman, Chairman, Turner & Newall Ltd., 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, General Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, Canada, May 17.
Paul A. Johnston, Chairman of the Board, Panacon Corporation, Cincinnati, Ohio, May 17.
L. O. Montpetit, Assistant to the President, Asbestos Corporation Ltd., Thetford Mines, Quebec, 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 Ltd., Thetford Mines, Quebec, Canada, May 19.
R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.
William T. Colborn, Vice President, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, May 21.
James A. Goodwin, Manager in Training, Jeffrey Mine, Johns-Manville Corporation, Asbestos, Quebec, Canada, May 21.
John R. Owens, Managing Director, Cape Asbestos Fibres Ltd., Uxbridge, England, May 21.
E. Gaskell, Managing Director, Cape Insulation Ltd., Stirling, Scotland, May 22.
Virgil W. Cooprider, Corporate Vice President-Personnel & Industrial Relations, National Gypsum Company, Buffalo, New York, May 24.
Michael C. Mangan, General Superintendent, Hedman Mines Ltd., Matheson, Ontario, Canada, May 24.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.
A. J. McMullen, President, Garlock Inc., Palmyra, New York, May 27.
Henry N. Bates, Corporate Vice President, Executive Department, Johns-Manville Corporation, New York City, May 28.
Kenneth M. Eden, Assistant to President, Nicolet Industries, Inc., Ambler, Pennsylvania, May 28.
Edward C. Koch, Vice President, Orangeburg Mfg. Co., division of, The Flintkote Company, Orangeburg, New York, May 28.
Lionel C. Piuze, Vice President, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, 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, Staff Manager, Asbestos Fibre Department, Johns-Manville International Corporation, New York City, June 2.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 42 of 64
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# NEWS

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* and—always—**SIZE STABILITY** and **RELIABILITY**

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SCAPA TEXTILES LTD

Leo J. Bartolanzo, Controller, Johns-Manville Corporation, New York City, June 3.
Bert I. Bertelsen, Manager, Industrial Products Division, GAF Corporation, Staffordville, Connecticut, June 3.
Harold F. Plate, Sales Manager, Carey-Canadian Mines Ltd., Cincinnati, Ohio, June 3.
Gordon C. Scowcroft, Vice-Chairman of the Board, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, Canada, June 3.
J. C. T. Fell, Managing Director, Raybestos-Belaco Ltd., Swanley, Kent, England, June 4.
William T. Kelly, Jr., Director, Abex Corporation, New York City, June 5.
Yvan Couture, Director of Public Relations, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, Canada, June 6.
Murray F. MacDonald, General Sales Manager, Residential Products Division, 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 Co. Ltd., London, England, June 7.
Stuart K. Brigham, Assistant to the Presidents of Cassiar Asbestos Corporation Ltd., Toronto, Ontario, & Conwest Exploration Company Ltd., Vancouver, B. C., Canada, June 8.
Herbert Morton Ball, Vice President, General Counsel & Secretary, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Director-Market Services, Building Products Division, GAF Corporation, New York City, June 9.
James C. McDonald, Director of Branch Operations, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, June 10.
Joseph T. Hepp, President, R/M International, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, June 11.
Alexander Kuzmuk, President, Mechanical Rubber Division, Garlock Inc., Palmyra, New York, June 11.
Ernest C. Bratt, Works Manager, Charlotte Works, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, June 12.
G. S. Sutcliffe, Deputy Chairman, Turner & Newall Ltd., Manchester, England, June 12.
Staton J. Peele, Jr., Manager of Industrial Textiles Marketing, Fiber & Textile Division, Uniroyal, Inc., Winnsboro, South Carolina, June 13.
A. H. Bagenstose, Vice President-Sales, Carey-Canadian Mines Ltd., Cincinnati, Ohio, June 14.
A. C. Caron, General Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, June 14.

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**ASBESTOS**

**welcomes the following new advertiser:**

DYNATECH R/D CO., page 55



*Asbestos Magazine, 1971, April 1971*
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## BOOKS, ARTICLES & PAPERS

**Water Pollution Control & Solid Wastes Disposal 1969,** by M. Sittig—describes specific water pollution control processes and in most cases covers processes and equipment that can be licensed or purchased. [$35.00 per copy; order through ASBESTOS or direct from Noyes Data Corporation, Park Ridge, New Jersey]

**Optimization of the Composition of Asbestos Cement—** appeared in the October 1970 edition of "Construction Materials." [ASBESTOS will gladly lend its copy, written in Russian, to interested readers]

**Dust Control & Noise Abatement**—The following papers were printed in the October 1970 issue of the "Canadian Mining Journal" and deal with problems of improved mine working conditions in the areas of dust control and noise abatement: Health Hazards of Dust Inhalation (Pneumoconiosis), by J. E. Cowle; Industrial Noise Control, by C. W. Wood; Electrostatic Precipitation (and a supplementary discussion on Cyclones), by G. H. C. Norman; Fabric Filters, by G. A. Dick; Wet Collectors, by F. Malozzi; and Basic Information on Dry Centrifugal Collectors, by H. Koehle.


## *The Asbestos Factbook*

**Have you often searched through many volumes to obtain facts about asbestos? Could you use a compact and informative 28-page booklet that is a handy, complete and up-to-date reference on the subject of asbestos?**

**If the answer is "yes" then *The Asbestos Factbook* is for you! It will be useful when preparing luncheon talks and training sessions; educators will welcome it; and it would readily answer many of the inquiries received by members of the Asbestos Industry. Many companies in the Industry will want to circulate copies to their sales, marketing, public relations and advertising people.**

***The Asbestos Factbook* contains individual chapters on: The Origin of Asbestos, Terse Asbestos Facts, Where Asbestos Is Found, The Uses of Asbestos and Asbestos Products, Chemical Compositions of Various Types of Asbestos, descriptions of The Quebec Standard Asbestos Testing Machine and of the QAMA Standard Procedures for Bauer-McNett Testing, and Asbestos Grades of Canada, Arizona, California and South Africa.**

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

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*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.***

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## ASTM STANDARDS

**New Standard C-668-70**—Specification for Asbestos-Cement Transmission Pipe. [December 24, 1970; $1.25]

**Revised Standard D-250-70**—Specification for Asphalt-Saturated Asbestos Felts for Use in Waterproofing and in Constructing Built-Up Roofs. [December 24, 1970; $1.25]

## U.S. HEALTH & SAFETY STANDARDS

**The Department of the Interior** has set forth 87 additional mandatory health and safety standards for the Nation's metal and nonmetal mines, and established a procedure by which individual mines may request variances from mandatory standards so long as they can assure no loss in health and safety protection for miners. The new standards and the variance provision are being published in the Federal Register in an announcement that also revokes three advisory standards and one mandatory standard that previously had been in force.

## CANADIAN GOVERNMENT SPECIFICATIONS BOARD

**Standard 51-GP-4a**—Thermal Insulation (Diatomaceous Silica-Asbestos) for Piping, Machinery & Boilers; applies to said insulation where the temperature of the hot surface is between 500°F and 1200°F (260°C and 649°C), essentially for but not restricted to marine use. [December 1970; 25¢]

**Standard 51-GP-5a**—Back-Up Thermal Insulation; applies to thermal insulation for use between insulating fire brick (CGSB 10-GP-5) and the casings of boilers, essentially for but not restricted to marine use, where the temperature of the hot surface is less than 1900°F (1038°C). [December 1970; 25¢]

**Standard 51-GP-6a**—Insulating Cement; applies to fibrous thermal insulating cement for use at temperatures below 1200°F (649°C), essentially for but not restricted to marine use, to fill and grout insulation to piping, machinery and boilers that cannot be insulated by preformed insulation. [December 1970; 15¢]

**Standard 51-GP-40**—Thermal Insulation: Flexible, Elastomeric, Unicellular, Sheet & Pipe Covering; applies to said insulation for condensation control at temperature of —100°F to +200°F (—73.3°C to +93.3°C). [November 1970; 25¢]

**Amendments No. 1** dated December 1970 have been issued to Thermal Insulation Standards 51-GP-9a, 51-GP-10, 51-GP-11 and 51-GP-38. Under the "Notes" section in the "Qualification" paragraph, sub-paragraph "Qualification Procedure," the address should be changed to read: Chairman, Interdepartmental Qualification Board for Thermal Insulation, Accessories and Systems, Department of Public Works, Testing Laboratories, Ottawa, Canada.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 48 of 64
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asbestosclaims.law/library/12648/48

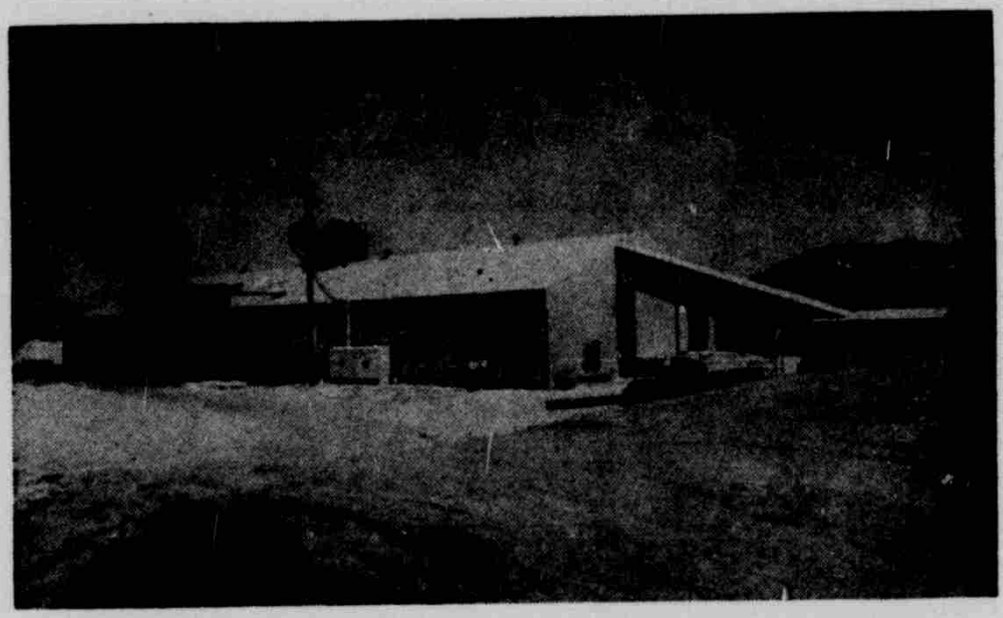
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**MINES AND MILL IN GILA COUNTY**





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# MEN ON THE MOVE

## BELL ASBESTOS MINES LTD.

**Marcel Dorais** has been appointed Executive Vice President and a Director. He is a graduate of Ecole Polytechnique and has spent his entire career in the Province of Quebec.

## GENERAL STEEL INDUSTRIES

**Guy S. Jones** has been named Sales Office Manager for Ludlow-Saylor Wire Cloth. Simplicity Engineering, Star Wire and Ludlow-Saylor are all part of the Process Equipment Division of GSI.

## JOHNS-MANVILLE CORPORATION

J-M realigned top management of its Financial Department and elected **Thornton R. Smith** as Vice President for Finance, **Leo J. Bartolanzo** as Controller and **J. J. Spangenberg** as Treasurer.

**John A. McKinney** was appointed Vice President for Legal Services, responsible for the Legal, Patent & Licensing Departments.

**A. C. Smith** has filled the newly-created position of Vice President-Environmental Control Systems. He joined J-M in 1940 and has been a Director since 1967.

**W. D. Gaches** is President of the recently formed Johns-Manville Irrigation Corporation and will continue as Vice President of J-M Sales Corporation. The new subsidiary will market totally integrated, custom-engineered turf-watering and irrigation systems.

## NATIONAL GYPSUM COMPANY

**Deall Daymon** was promoted to the new position of Director of Corporate Computer Project, responsible for managing and directing a program to install a new computer center at the Corporate Headquarters in Buffalo, New York. The new center will become operative next year.

## PANACON CORPORATION

**C. Edward Baldwin** was appointed Director of Industrial Engineering. Prior to joining Panacon, he was a Plant Manager for Tokheim Corporation.

**Harry E. Barch,** formerly President of Western Tire Auto Stores, a Panacon division, has been named Vice President of Corporate Development.

## PHILADELPHIA ASBESTOS CORPORATION

The following executive changes were announced by Philadelphia Asbestos: **Philip P. Rost,** Chairman of the Board; **James E. Sullivan,** Senior Vice President; **William T. Colborn,** Vice President; and **Donald L. Andrew,** Secretary.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 50 of 64
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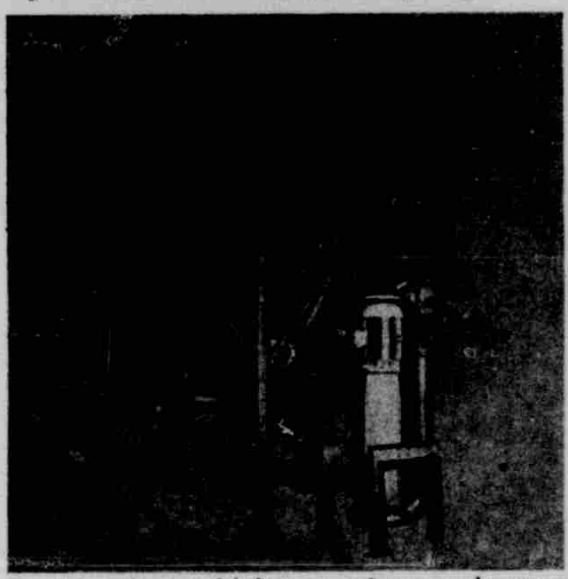
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Sheet cutting press 3,6×1,3 m / 12′×4′



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**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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# NOTES FROM 1970 ANNUAL REPORTS

## JOHNS-MANVILLE CORPORATION

Net sales for the year 1971 for Johns-Manville Corporation reached $578,157,000, less than the $612,564,000 reported for the previous year. Net earnings were $33,428,000 or $2.02 per share of common stock, compared to 1969 earnings of $43,146,000 or $2.58 per share. The decrease in sales and earnings reflected sluggishness in principal sectors of the construction and industrial markets, generally rising costs and strikes at three J-M plant locations. $43.1 million was spent on capital expenditures and funds totaling $13.1 million were channeled into research, development and engineering, including a provision for worldwide geological exploration.

*Raw Materials*

Johns-Manville's position as a prime supplier of the vital raw materials—asbestos, diatomite and perlite—continued to be a keystone of company operations. Export sales of asbestos fiber to customers outside of the United States and Canada reached a record high. Sales of asbestos to U.S. and Canadian customers were at about the same level as 1969. Asbestos consumption by J-M plants was lower than in 1969 due to divestiture of floor tile and some asbestos siding products and the slowdown in the construction industry. The company continued its long-range ore development and recovery program at Jeffrey Mine, Asbestos, Quebec, and established the commercial potential of its asbestos ore body in Garrison Township, Ontario.

*Industrial Specialties*

Sales volume of industrial specialty products was affected by the economic slowdown in key industries and divestiture of the Dutch Brand line of pressure-sensitive plastic, rubber, cloth and paper tapes. Sales were aided by deeper market penetration of J-M lines, a healthy demand for replacement products and noticeable improvement in overseas volume. But the net result was a 22.1% decrease from 1969 sales levels.

*Commercial & Industrial Insulations*

Despite the physical volume slowdown in the new plant and equipment sector of the economy, sales of J-M commercial and industrial insulations ran slightly ahead of the 1969 pace. Greater use of insulating fire brick and Thermobestos pipe insulation helped boost foreign sales above the 1969 volume. Two new insulation products for European markets were developed at Casalpusterlengo, Italy: Fibrocel Insulation, a composition of asbestos and bentonite; and Fibro-M, an asbestos-perlite block insulation.

*Pipe*

Tight money and sizeable cutbacks in Federal spending and funding for municipal projects trimmed the demand for pipe products. Sales dropped 8.5% below the record $117.9 million achieved in 1969. The urgent need to solve the nation's water pollution problems



Asbestos Magazine, 1971, April 1971
ACL Doc 12648 · Page 52 of 64
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# HUXLEY DEVELOPMENT CORPORATION

## Suppliers of Raw Asbestos



*OVER TWENTY YEARS OF SERVICE*
*to the*
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strengthened the demand for sewer pipe. There was an increase in the use of storm drain pipe and J-M Temp-Tite pipe. The boom in mobile home parks aided the sale of both Transite asbestos-cement pipe and polyvinylchloride (PVC) plastic pipe.

*Construction Materials*

Construction materials sales at $207 million were down 11% from the previous year and sales to the new residential market reflected the drop in housing starts. A relatively bright spot was mobile home construction. Relative stability showed in the maintenance, remodeling and repair market and J-M's line of pressed and extruded asbestos-cement exterior sidewall and accent panels continued to grow in popularity.

*Environmental Control*

As a result of J-M successfully developing, for the U.S. Coast Guard, a model oil containment system, J-M was awarded a new $1 million Government contract to develop, build and demonstrate a full-size version of the system.

In 1970, J-M had underway or had appropriated funds for occupational and community environmental projects totaling $8 million.

## MSAULI ASBES LTD.

The consolidated results for the financial year ended June 30, 1970, showed an increase over those of the previous financial year, due largely to increased fiber production and sales at the higher fiber prices which followed upon the full commissioning of the new plant. Profit at year-end was R84,460 against the previous year's loss of R16,829. During the year under review, R1,188,158 was expended on mining assets. The new plant has been completed and capital expenditure will decrease considerably in the current financial year. An amount of R8,268 appropriated from profits was spent on the replacement of obsolete open-cast equipment.

Production of fiber was only 32% higher than the previous year due to a lower than normal ore grade. Ore of exceptionally low quality in the pillar which previously supported the old Anna Mill had to be removed before average grade ore could be made available. This work was completed and fiber production should improve in the current year to the expected output.

Since continuation of open-cast mining methods on the DAM (Diepgezet Asbesmaatskappy Beperk) claim area would have unduly delayed resumption of production, it was decided to dewater the old underground workings of the Chris shaft and employ underground mining methods. This work has now been completed and the shaft was fully recommissioned in August, 1970.

Demand for Msauli Chrysotile fiber exceeds the current production capacity of the plant and the company is in a strong competitive position in respect to both quality and prices.

Msauli Asbes still holds the entire issued share capital of African Chrysotile Asbestos Ltd. and of Msauli Krisotielasbes Ltd. Msauli Krisotielasbes has not done any business during the year.



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 54 of 64
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50 years of experience in the field of
MACHINERY and PLANTS
for PIPES, SHEETS and FITTING
in ASBESTOS CEMENT



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# ASBESTOS STOCK QUOTATIONS

**CLOSE—MARCH 23, 1971**

| | | | |
|---|---|---|---|
| Abitibi Asbestos | *$4.75 | Gulf & Western | 28⅛ |
| Advocate Mines | *$2.40 | G&W (pfd 1.75) | 88 |
| Asarco | 26⅝ | G&W (pfd 3.50) | 112 |
| Armstrong Cork | 35⅛ | G&W (pfd 3.87) | 57½ |
| Armst Cork (pfd 3.75) | 61½ | G&W (pfd 5.75) | 67¾ |
| Asbestos Corporation | *$37.00 | Illinois Central | 35¼ |
| Bendix | 34 | Ill. Central (pfd 3.50) | 57¾ |
| Bendix (pfd 3) | 57⅛ | Johns-Manville | 41¼ |
| Carlisle | 18⅜ | Maremont | 15½ |
| Cassiar | *$22.62 | National Gypsum | 21¾ |
| Cerro Corporation | 16¼ | Natl Gypsum (pfd 4.50) | 64¼ |
| Certain-teed | 31 | Pacific Asbestos Ltd. | *$1.50 |
| C-teed (pfd .90) | 31 | Panacon | 3¼ |
| Conwest | *$10.62 | Porter (pfd 5.50) | 72 |
| Flintkote | 28¾ | Raybestos-Manhattan | 30⅛ |
| F-kote (pfd-A 4.50) | 84¾ | Royal Industries | 10⅝ |
| F-kote (pfd-B 2.25) | 38 | Unarco | 15 |
| GAF Corporation | 13⅛ | Union Carbide | 46 |
| GAF (pfd 1.20) | 20¼ | Uniroyal | 20 |
| Garlock | 19⅛ | Uniroyal (pfd 8) | 107¼ |
| Grace | 33⅝ | United Asbestos | 5 |

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)


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# NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittance should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be shown.

*Canadian 861,598*—Use of up to 15% by weight of Chrysotile asbestos of the Coalinga, California, type in reinforcing nylon compositions used for injection or extrusion molding of precision industrial parts; K. Hattori & G. W. Woodham; assigned to Dart Industries, Inc.; January 19, 1971; 22 pages.

*U.S. 3,556,698*—In the removal of oil spills, asbestos fiber is applied to the spill, the soaked fiber burned and the burned residue sunk if on water or disposed of if on land; P. R. Tully, W. J. Fletcher & H. Cochrane; assigned to Cabot Corporation; January 19, 1971; 4 pages.

*U.S. 3,556,819*—An asphaltic mastic comprises a suitable asphalt, Grade 7T or 7N Chrysotile asbestos, expanded perlite, boric acid, unexfoliated vermiculite and a solvent for the asphalt; R. E. Koons; assigned to Monsanto Co.; January 19, 1971; 5 pages.

*U.S. 3,558,427*—In the manufacture of asbestos sheets by a beater saturation process, trimethylolpropane trimethylacrylate and a peroxide catalyst are added to the asbestos-rubber batch to produce a strong, tough sheet; J. W. Baymiller; assigned to Armstrong Cork Co.; January 26, 1971; 4 pages.

*U.S. 3,558,485*—A composition for reducing flammability of forests, shrubbery, grass, etc., comprises an aqueous mixture of Chrysotile asbestos fiber of the Coalinga, California, type and either ammonium sulfate, ammonium phosphate or ammonium chloride; J. E. Skvarla; assigned to Union Carbide Corporation; January 26, 1971; 4 pages.

*U.S. 3,558,486*—To reduce their flammability, forests or grass are sprayed with a mixture of 10-50% by weight of Chrysotile asbestos floats or shorts and 50-90% of diammonium orthophosphate or ammonium sulfate; W. W. Morgenthaler; assigned to Monsanto Co.; January 26, 1971; 3 pages.

*U.S. 3,560,323*—Fireproof structural panels are produced by heating and shaping a mixture of a refractory clay, asbestos shorts or floats and borax as an agglutinator; C. E. Zwickert; February 2, 1971; 4 pages.

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*THIS OFFICE* recently received, from the inventor, copies of the following two patents: *U.S. 3,540,664*—Resilient Wheel Impact Mill, November 17, 1970; and *U.S. 3,545,685*—Resilient Paddle Impact Mill, December 8, 1970; both invented by Archie Q. Adams, Central Point, Oregon.

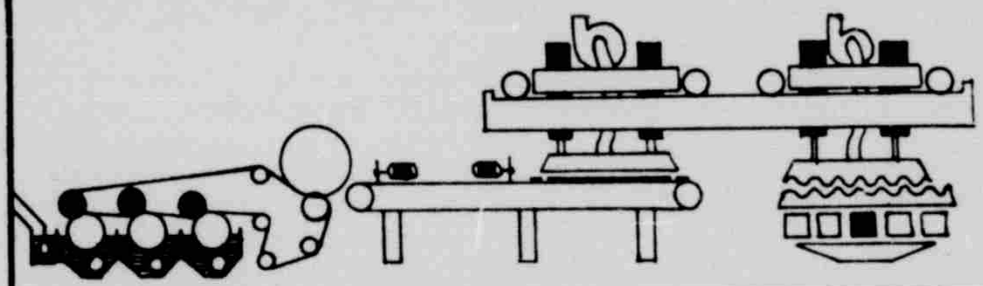

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# CALENDAR OF EVENTS

**Noise Measurement & Control Seminar**—Pennsylvania State University, Behrend Campus, Erie, Pennsylvania, *April 27-28.*

**Southwest Insulation Contractors Association**—1971 Spring Convention, Camelot Inn, Tulsa, Oklahoma, *April 28-30.*

**Central States Insulation Contractors Association**—Spring Meeting, The Greenbrier, White Sulphur Springs, West Virginia, *April 29-May 2.*

**Elements of Mining**—Pennsylvania State University, University Park, Pennsylvania, *May 3-5* for Course I & *August 2-4* for Course II.

**American Management Association**—40th National Packaging Exposition & Conference, McCormick Place, Chicago, Illinois, *May 3-6.*

**Noise & Vibration Control Seminars**—sponsored by Bolt Beranek & Newman Inc., *May 5-7 or 10-11* in Honolulu, Hawaii, *May 21-22* in Tulsa, Oklahoma, and *May 26-28 or May 31-June 1* in St. Louis, Missouri.

**National Fire Protection Association**—Diamond Jubilee Annual Meeting, San Francisco Hilton, San Francisco, California, *May 17-21.*

**Environmental Effects on Aircraft & Propulsion Systems**—10th Annual Conference, Naval Air Propulsion Test Center, Holiday Inn, Trenton, New Jersey, *May 18-20.*

**Symposium on Automatic Control Systems in Mineral Processing Plants**—Department of Mining & Metallurgical Engineering, University of Queensland, St. Lucia, Australia, *May 18-20.*

**Underwater Mining Institute**—South Hall, Civic Center Campus, The University of Wisconsin, Milwaukee, Wisconsin, *May 20-21.*

**Eastern Atlantic States Insulation Contractors Association**—Spring Meeting, Statler Hilton Hotel, Annapolis, Maryland, *May 20-21.*

**Midwest Insulation Contractors Association**—Annual Spring Meeting, Stauffer's Waterfront Inn, St. Louis, Missouri, *May 25-28.*

**Environmental Quality Conference for the Extractive Industries**—The American Institute of Mining, Metallurgical & Petroleum Engineers (AIME), Washington Hilton Hotel, Washington, D. C., *June 7-9.*

**Asbestos Textile Institute**—General Meeting, Cherry Hill Inn, Cherry Hill, New Jersey, *June 9-10.*



*Asbestos Magazine, 1971, April 1971*
ACL Doc 12648 · Page 60 of 64
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# The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

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# Remember When?

(April 1921 ASBESTOS)

A lead article titled "The Asbestos Built Up Roof" described the basic materials, method of installation and the advantages of this comparatively recent entry into the roofing field.

The office building adjoining the plant of the Norristown Magnesia & Asbestos Co. was severely damaged by an explosion, thought to have been that of a bomb planted in the office of A. K. Burgstresser, Superintendent of the Plant.

A short account of the activities of Jacob A. Jacobs in the development of several Canadian asbestos mining and milling properties appeared in this issue.

The Sterling Asbestos Co., Camden, New Jersey, was reported as starting the manufacture of a combination copper and asbestos gasket.

The United Asbestos and Packing Co. of Chicago, Illinois, was merged with the United States Asbestos Co. of Lancaster, Pennsylvania. The Chicago operation was to be run as a separate corporation with George L. Hammons as President and a Board of Directors consisting of Mr. Hammons, S. R. Zimmerman and Chester L. Hill.

Due to spotty world-wide business conditions some of Quebec's smaller asbestos mines and mills were temporarily shut down and in others production was cut back by elimination of night work and stoppage of work in certain pit areas.


**GUMMI ASBEST KUNSTSTOFFE**

**is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.**

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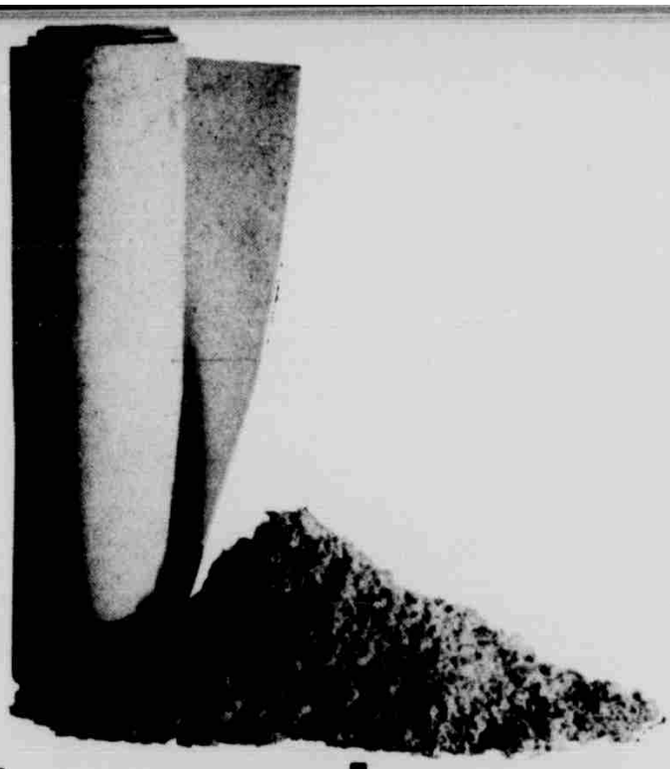
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Novatex asbestos textile is lighter, stronger and more heat resistant than conventional asbestos textiles. Incombustible Novatex asbestos textile flexes easier at high temperatures than glass fabrics. No need for lubricants to maintain flex life. Organic solvents . . . alkalies . . . weak acids—Novatex resists them all. Novatex comes in a wide variety of weights and sizes for nearly every type of application. With Novatex you're bound to get an improvement. Contact us.

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# Two good starts...

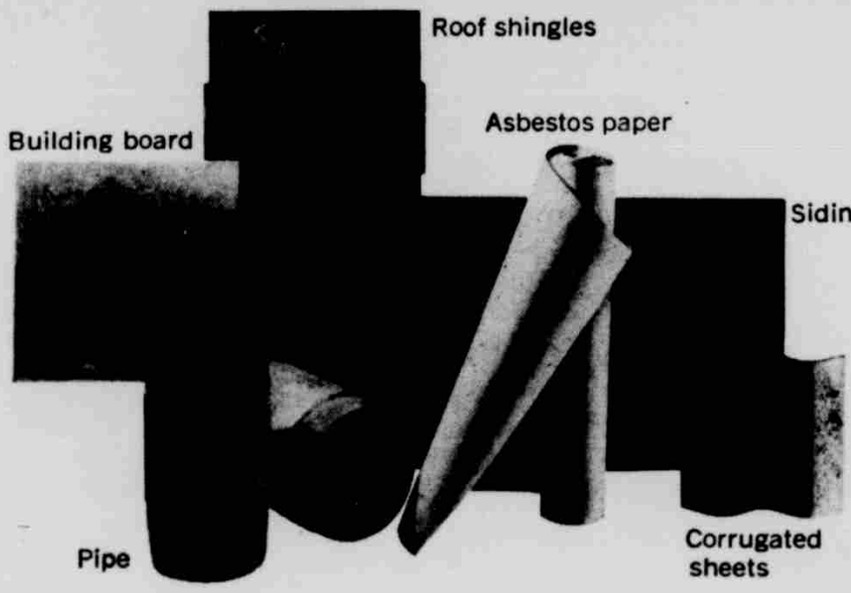
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