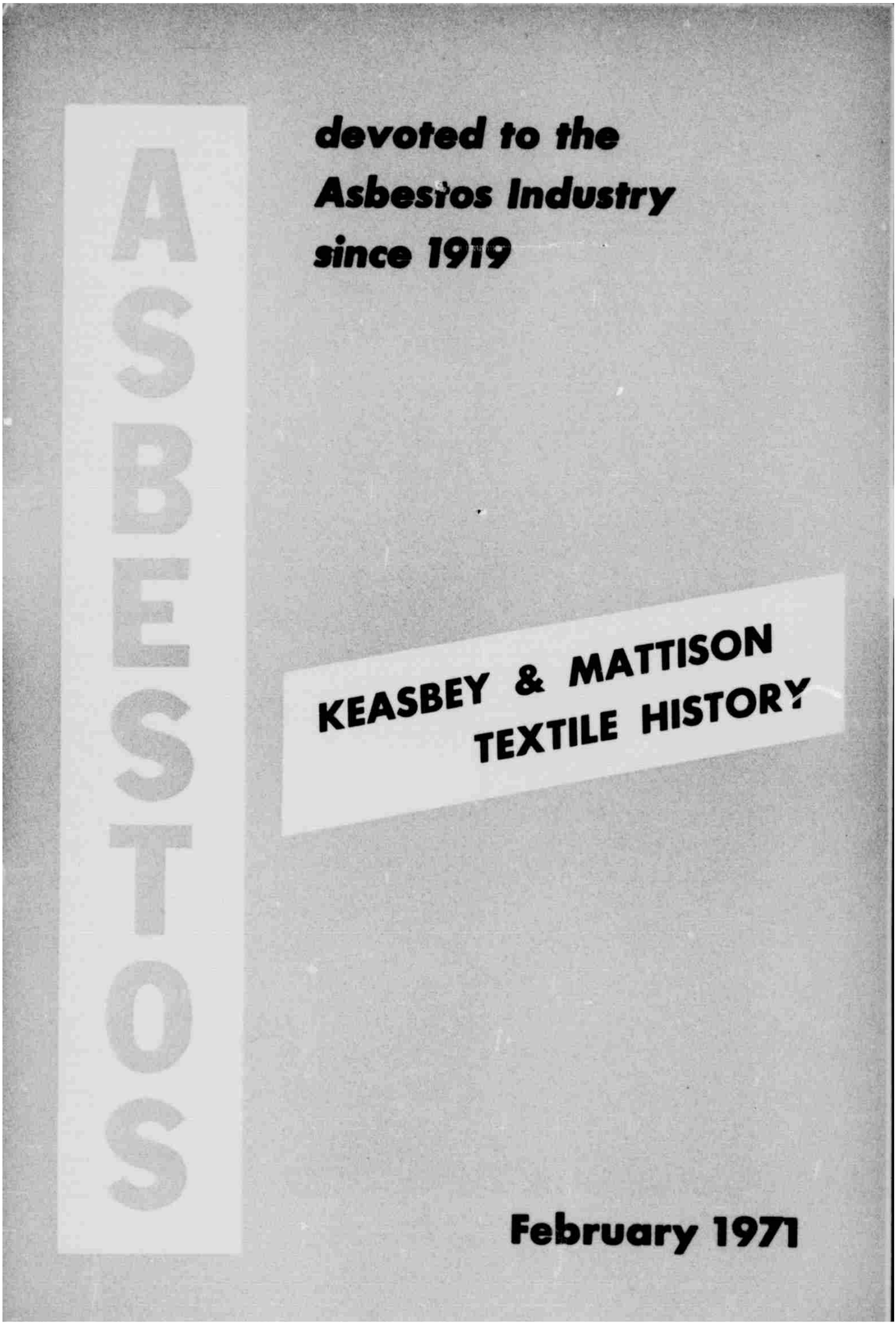
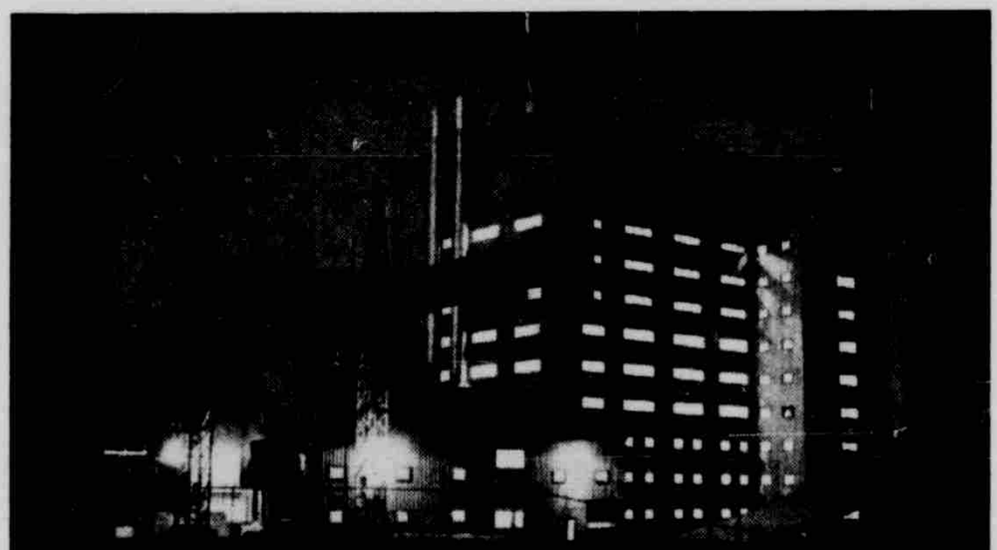




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# ASBESTOS

VOLUME 52 FEBRUARY 1971 NUMBER 8
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# THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

## Chapter V: Keasbey & Mattison Company

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

As edited by the Staff of ASBESTOS

Recording the outline history of Keasbey & Mattison Company is like writing the obituary of an old and respected friend. Keasbey & Mattison was sold, piece-meal, by Turner & Newall Ltd. in 1962. Nevertheless, a history of the asbestos textile industry in the United States would not be complete without the K&M story. Keasbey & Mattison held second place in a highly-competitive industry for a period of perhaps forty years.

It all began in 1873 when Henry G. Keasbey and Richard V. Mattison, upon graduation from the Philadelphia College of Pharmacy, formed a partnership for the manufacture of pharmaceutical preparations and opened a modest laboratory at 332 North Front Street in Philadelphia, Pennsylvania. One of their most important products was carbonate of magnesia made from imported kieserite.

A few years later the partners discovered they could extract a superior quality of basic magnesium carbonate from a high-grade dolomite that was available in large quantities at Ambler, Pennsylvania. In 1882, Messrs. Keasbey and Mattison built their first plant at Ambler.

It should be remembered that during this period the use of steam power was developing at a prodigious rate, creating a need for efficient thermal insulations. In 1882 Hiram Hanmore, of Philadelphia, an independent insulation contractor by trade, was impressed by the extremely light weight of magnesium carbonate which he saw being sold in a drug store. He purchased some of the material, applied it like plaster to a steam boiler and found it to be an excellent heat insulation, far superior to the plaster of Paris then in general use for this purpose. Hanmore obtained a patent on the use of magnesium carbonate as a thermal insulation and applied



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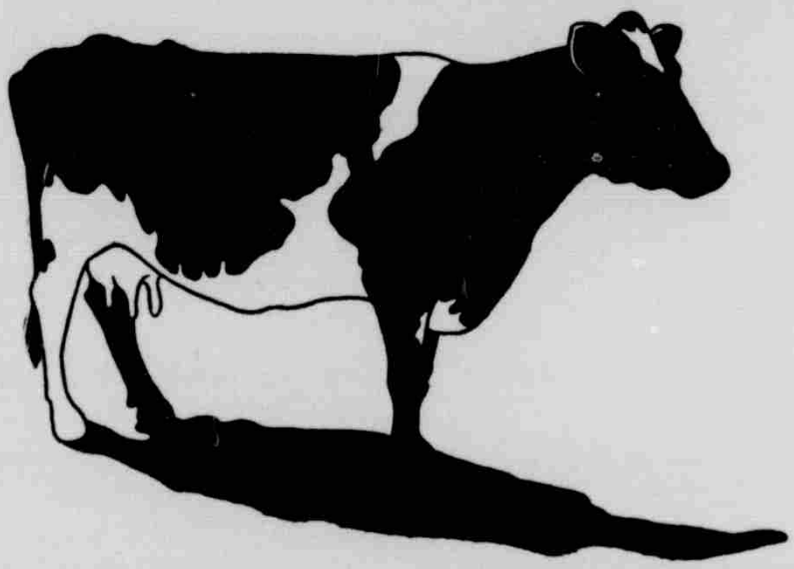
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large quantities of the material on steam plants in the Philadelphia area. Dr. Mattison, curious to learn what was being done with the relatively large amounts of magnesia being purchased by Hanmore, contacted him and, recognizing the value of the product, entered into an arrangement to manufacture and sell insulating materials in accordance with the Hanmore patent. K&M undertook the manufacture of molded pipe covering and block insulation as well as magnesia cement. As a reinforcement for the brittle magnesium carbonate, Hanmore had used shredded hemp which deteriorated rapidly at the temperatures encountered in service. It was Dr. Mattison who conceived the idea of using heat resisting asbestos fibers as the reinforcement and thus was born "85% Magnesia" insulation which was destined to become the standard high-temperature thermal insulation for many years to follow. The importance of these events can hardly be overestimated since they were directly responsible for K&M's subsequent growth into a leading manufacturer of asbestos-based products including asbestos textiles.

Although the new insulation proved a most profitable venture for the young associates, the partnership was not to last for long. In 1892 the business was incorporated and shortly thereafter Mr. Keasbey retired due to ill health. From that time on Dr. Mattison directed the affairs of the company.

The outstanding success of 85% Magnesia insulation encouraged Dr. Mattison to devote a major portion of his time to the development of other asbestos-based products. By 1896 Keasbey & Mattison Co. had developed a line of asbestos textiles including roving, yarn, cord, cloth and tape.

A Textile Department was established in 1900 to manufacture high-pressure packing from various combinations of asbestos textiles and rubber. Thus the company was in position to supply industry in general as well as the needs of its own plants.

Within a few years K&M was a major purchaser of asbestos fiber and sought to acquire its own source of supply for this basic commodity. The company acquired the Bell Mine at Thetford Mines, Quebec, Canada, then, and now, one of the world's finest sources of asbestos spinning fiber. However, like most asbestos mines, the Bell Mine produces



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all grades of fiber from long spinning to short floats. As the new owner of this productive property, Keasbey & Mattison was faced with the challenge of developing new uses and new markets for the full range of asbestos fiber grades.

In due course asbestos paper, aircell pipe covering and millboard were added to the K&M line of products, followed by a line of asbestos-cement products including shingles, flat and corrugated sheets, water pipe and sewer pipe. However, these utilitarian product groups have no place in this "textile" story except as a demonstration of K&M's creativity and its historic place in the Asbestos Industry.

As stated before, the writer's contention is that although the steam engine is the father of the asbestos textile industry, the automobile is the maternal parent—and the K&M story supports this premise. As far back as 1900 K&M furnished cloth and tape for the manufacture of early types of friction products used by the horseless carriage. By 1909 K&M was merchandising its own woven asbestos brake lining under the "Autobestos" brand name.

In the years following World War I, K&M suffered from internal difficulties, gradually began to lose its distinction as an innovator and acquired the reputation of being a very reliable but backward member of the industry. During the bitter depression years of 1930-1934 when new construction was pretty much at a standstill, K&M was in acute financial trouble. Dr. Mattison lost control of the company to the creditor banks and the business continued under a receivership headed by A. S. Blagden.

Although Mr. Blagden tried to sell K&M to several other members of the domestic asbestos industry, he was unsuccessful as the potential buyers already owned plants that were idle during those desperate years.

Finally, in 1934, Mr. Blagden announced the acquisition of controlling interest in K&M by Turner & Newall Ltd., of Manchester, England.

On October 28, 1937, under Turner & Newall ownership, Ernest Muehleck was appointed President. He continued in that capacity until March 31, 1957. William C. Scott was named Treasurer. William S. Acuff, Jr., was ap-



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pointed General Sales Manager and held that position until 1944. He was replaced by D. W. Widmayer. After 42 years with K&M, Mr. Widmayer retired on December 31, 1959, as Vice President, Director and Marketing Consultant. It was during the period 1953-1954 that Web Widmayer served two terms as President of the Asbestos Textile Institute. Bill Scott was the first Treasurer of ATI and served six consecutive terms as its financial guardian, 1945-1950. He retired from K&M in December, 1950, as Vice President and Director.

Soon after Turner & Newall took over K&M, the Brake Lining Department was moved to a new building in New Brunswick, New Jersey. The plant operated under the name of Ferodo and Asbestos, Inc., with Walter Dodge as President. "Ferodo" was then, and still is, a world-famous brand name of the Turner & Newall organization. The business operated at New Brunswick for just a few years and then was moved to Montreal, Quebec, to become a part of Atlas Asbestos Company, another subsidiary of T&N.

It frequently happens in business that when a young executive has the courage to criticize his superiors he is told, "Let's see what you can do!" It was under these circumstances that A. E. Whitfield took charge of K&M's Textile Department in 1939. At that time the Textile Department handled asbestos paper, millboard and packings, in addition to a complete line of asbestos textile products. During Andy Whitfield's 23 years as K&M's Textile Sales Manager, the Textile Department enjoyed an enviable reputation for quality products. K&M specialized in lightweight textile fabrics and was for many years the major weaver of .010"-.030" gauge decimal tapes.

We are indebted to Mr. Whitfield for a major portion of the Keasbey & Mattison story. He was for many years a staunch supporter of ATI. He served on several committees including two terms as Chairman of the Sales Promotion Committee. He was Treasurer of the Institute in 1961 and 1962.

Shortly after assuming the Presidency of K&M, Ernest Muehleck started spending his vacations at Lake Winnipe-



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saukee, New Hampshire. He became acquainted with the facilities of the Meredith Knitting Mills at Meredith, N.H., and recognized the attractive possibilities of this plant for the manufacture of asbestos textiles. Eventually K&M purchased the plant, closed its textile operations at Ambler and concentrated all textile manufacture in the Meredith plant, where operations were started in 1951. Albert Allwood was appointed Plant Superintendent and served until 1956. He was succeeded by J. L. Rainey. [We will read more about Jack Rainey in the coming chapter on American Asbestos Textile Corporation.]

There is a widely-held misconception in the industry to the effect that Turner & Newall liquidated Keasbey & Mattison because of continuing marginal operations. During conversations with the writer, several K&M veterans stoutly contended this is not in accordance with the facts. Turner & Newall was, therefore, asked to furnish an accurate account of the disposition of K&M. The reply from Mr. R. M. Bateman, Chairman of Turner & Newall, is quoted herewith verbatim:

> "In view of the impending retirement of Mr. Ernest Muehleck and others at the level of top management, Mr. R. R. Porter was appointed to succeeed him and to plan a new management team. This new team included Mr. Norman Barr as Vice-President Sales, Mr. George Barge in charge of financial matters, and Messrs. Buczkowski and Schneider in charge of production and technical matters.
>
> "In the succeeding years it became clear that the asbestos textile operation, if it were to be sufficiently profitable, required a substantial injection of new capital for modernisation of plant and expansion. In 1962 Turner & Newall decided that the wisest course would be to sell this operation as a going concern to an American asbestos textile company [American Asbestos Textile Corporation] for amalgamation with that company's existing textile operations.
>
> "Keasbey & Mattison had already ceased manufacture of asbestos-cement building products and Turner & Newall completed reorganisation of their American manufacturing interests by sale of the pipe plants to Certain-teed Products for stock of that company, and sale of the remaining manufacturing operations to Nicolet. Turner & Newall were previously stockholders in Certain-teed and by this operation became



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the largest single stockholder in that company, and thus ensured a continuing investment in America not only in pipe manufacture but also in the rapidly developing building products interests of Certain-teed. In this way, Keasbey & Mattison ceased operations in 1962 and was subsequently wound up."

Thus came to an end a business founded in 1873, incorporated in 1892 and liquidated in 1962.

---

Don't Forget . . . .

to let us know if you desire reprints of "The History of the Asbestos Textile Industry in the United States," by John A. Bettes, Jr.

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## TURNER & NEWALL—GOLDEN JUBILEE

*Turner & Newall Limited—The First Fifty Years* has been published by T&N to commemorate its Golden Jubilee. The history tells of the formation of the firm in 1920 through the amalgamation of four established companies. As the tale unfolds you learn that Ferodo joined the Group in 1925, that Turners Asbestos Cement was formed in 1933 and that Turners Asbestos Fibres was established in 1963. Also portrayed is the importance of Turner Brothers Asbestos, TAC Construction Materials and the T&N Asbestos Fibre Laboratory.

T&N entered into the asbestos mining industry in 1924 and the story relates of T&N's interest in Cassiar Asbestos Corporation, of the establishment of Dublin Consolidated Asbestos Mines, and of the acquisition of such mines and mining companies as Rhodesian & General Asbestos Corporation, the Bell Mine, claims at Havelock, Swaziland, and the Bute Mine near Africa's Kalahari Desert.

Although T&N has diversified its manufacturing endeavors to include materials other than asbestos-based products, asbestos still plays a vital part in the Group's activities. The final chapter of the T&N printed history looks to the future as the company anticipates the growth of markets for its many products.



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## POLLUTION CONTROL/HEALTH & SAFETY

IIT RESEARCH INSTITUTE, Chicago, was awarded a contract by the National Air Pollution Control Administration to review the Asbestos Industry to assess the possible emissions of asbestos dust into the atmosphere and the control techniques used to curb these emissions. As advised by Dr. Colin F. Harwood, Research Chemist with IITRI and Project Leader for the study, it will not be concerned with medical aspects or industrial health but with the pollution control techniques currently being used. IITRI is completely independent of both the Asbestos Industry and the U.S. Government and it is expected the final document will be issued by the Environmental Protection Agency under the title "Control Techniques for Asbestos Air Emissions."

IIHRP PROGRESS REPORT—According to the Winter 1970 issue of the Insulation Industry Hygiene Research Program's Progress Report . . . the National Insulation Contractors Association, in cooperation with the Asbestos Workers Union, approved the establishment of a National Health & Safety Fund . . . The U.S. Navy will soon introduce a set of procedures to reduce insulation dust exposure in naval shipyards . . . An extensive program for reducing insulation dust exposure to workers has been put into operation at the Royal Naval Shipyard, Plymouth, England . . . Under a program instituted by Cape Asbestos to minimize the exposure of workers to insulation dust, specially-trained insulation demolition and rip-out crews using newly-developed techniques and equipment are now operating in Great Britain . . . The new disposable dust-mist respirator introduced last year by American Optical Corporation has been awarded a U.S. Bureau of Mines approval under Schedule 21B.

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*Next Issue . . .*

*Pneumatic Conveying & Bulk Purchases -- Profit Combination for the Asbestos Industry*



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## EVERITE ENLARGES FACTORY

The June 1970 issue of ASBESTOS carried the brief announcement that Everite Limited had undertaken an expansion program at its existing asbestos-cement plant at East London, Republic of South Africa. Since the publication of this item we have received additional background information on this particular factory that we feel will be of interest.

Although Everite asbestos-cement products had been marketed in the East London area for many years through approved distributors, it was decided in 1963 to establish a Branch Office in that city to coincide with the company's expansion program taking place at that time. The new office would also provide a stock depot for improved service to distributors and customers alike.

As the demand grew for asbestos-cement materials, Everite decided to erect a factory in the area to serve the Eastern Cape, certain areas of the Orange Free State hinterland, and coastal areas where materials could be railed or shipped at economical rates. In August, 1963, Everite purchased 15.3 acres of ground at the Wilsonia Industrial Sites, some 8 miles outside of East London. The firm's third abbestos-cement factory was built at that property in 1965. The modern sheet plant, equipment and ancillary buildings occupied a covered area of approximately 57,000 square feet.

Today the factory employs a total of 276 workers, operates two shifts each day, 50 weeks per year, and produces corrugated roofing sheets, molded goods and molded and flat sheets. Since asbestos-cement offers the advantage of being unaffected by the corrosive coastal atmopshere, Everite products are extensively used for roofing industrial buildings, Bantu housing, commercial and domestic building, agricultural sheds, etc.

Due to the limited amount of covered and open storage area, the plant has been able to operate at only half capacity. But the continued increase in demand has prompted the company to plan for a full-capacity production program and Everite embarked on a major expansion program, providing the factory with an additional covered area of 38,700 square feet. A new trading goods store, workshop and ablution block will occupy a further 14,700 square feet. A new 1,000 ton bulk cement storage silo is also planned.



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## THIS & THAT

ASBESTOS MINERALS CONFERENCE—Recent progress of work on the physical, chemical, geochemical and technological aspects of asbestos minerals will be studied at the Institute of Earth Sciences, Louvain University, Belgium, September 6-9. Requests for registration forms should be directed to B. Lindoln, T&N Asbestos Fibre Laboratory, P. O. Box 22, Trafford Park, Manchester M17 1RU, England.

---

CANADIAN JOHNS-MANVILLE awarded contracts worth over $6.5 million to various Quebec firms as part of its $75 million relocation program at Asbestos. To date the most important contract was awarded to Dominion Bridge for an estimated $2 million and involves the erection of the structural steel for the concentrator-dryer building. Two contracts worth $1.5 million each went to the Pentagon Company for the primary crusher building complex and for civil construction of the concentrator-dryer building.

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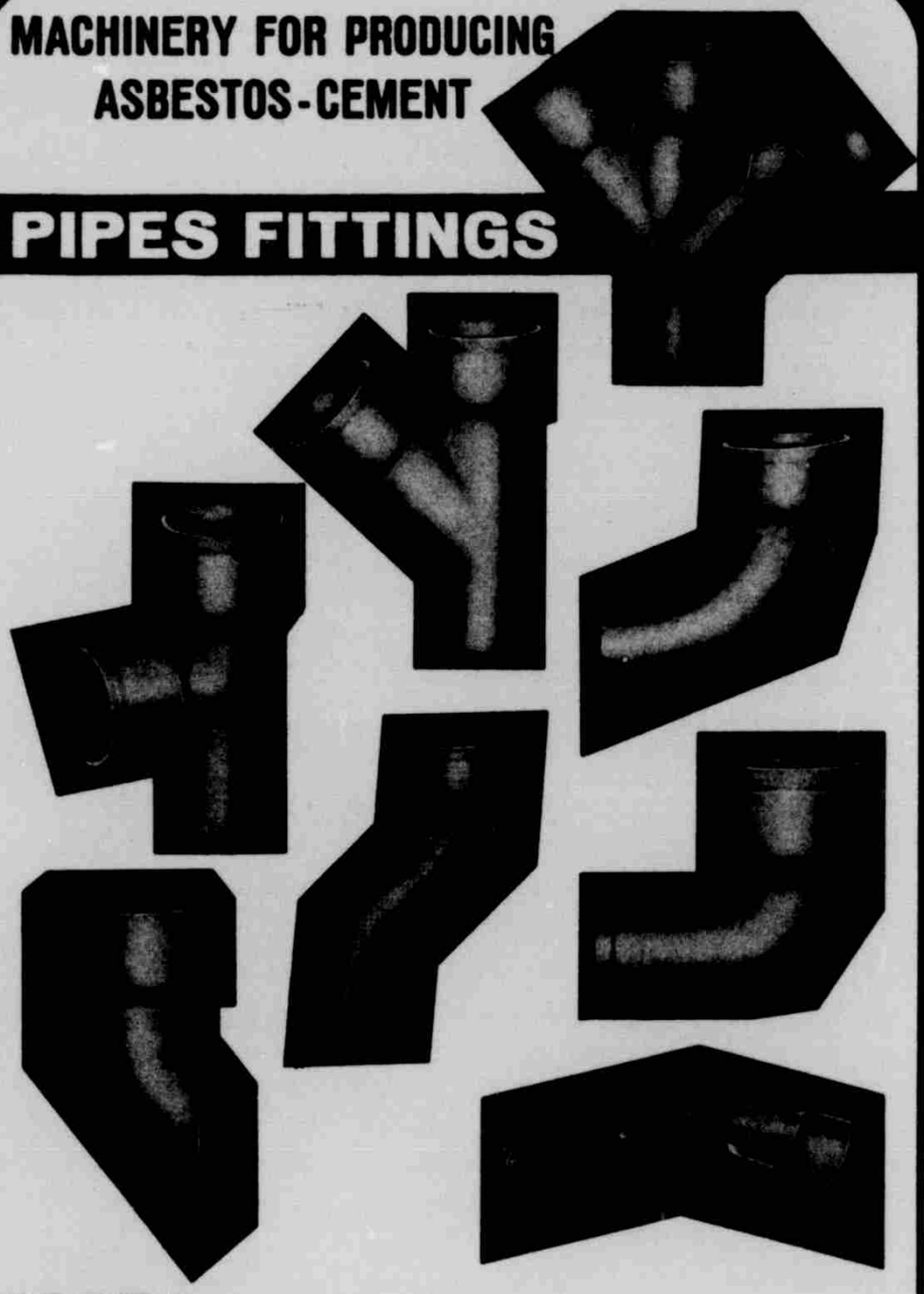
CAPE ASBESTOS ANNOUNCES—A new supply of reprints of Dr. A. A. Hodgson's lecture on "Fibrous Silicates" has been printed. Copies may be obtained through ASBESTOS or by writing M. B. Henderson, Cape's Group Public Relations Consultant . . . . "CBPL Technical Manual 1970/71" is now available. It contains data on two new products—Asbestolux Hardboard & Monad asbestos-cement cladding system—and includes newly published information on 13 subjects in the theory and application sections . . . . A new Grade of Amosite (S44) is now being produced at Penge. It is sold in a semi-processed condition for direct use without further milling and is similar in grading to most 5R Chrysotiles . . . . Press packing machines at Cape Group mines are being modified to pack in metric weight units . . . . On January 1st, Cape Insulation Ltd. took over the thermal insulation contracting business of Wm. Kenyon & Sons (Thermal Insulation) Ltd.



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# MARKET CONDITIONS

## General Business.

The pace of general business continues slow. While there are some cheerful spots in the picture they seem to be the exceptions rather than the rule.

Additional cuts have been made in the prime interest rate but demand for loans on the part of business has slacked off as many corporations are taking drastic steps to improve their cash position. With utilization of the nation's productive capacity below the 85% level, there is no great incentive to borrow money for plant expansion except in such cases as public utilities where increased capacity is a "must" and in industrial sectors where new products require completely new plants for their manufacture. Likewise, in the private sector, personal savings are at a high level and growing at a very rapid rate while consumer spending is lagging.

While latest figures show that price levels are still rising, some analysts point to a slight decrease in the *rate* of such rises as an indication inflationary forces are on the wane. Whether this is true remains to be seen and, with the Administration now talking about steps to stimulate the economy, it becomes even more doubtful that inflation has been permanently slowed or halted.

The stock market has continued to push upward despite generally poor earnings reports from many companies and entire industries such as the airlines. If one accepts the theory that the market can and does discount the future it would seem that the economy is due to turn the corner and start moving strongly upward sometime in the intermediate term future.

---

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# CONSTRUCTION NEWS

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

*DECEMBER & YEAR 1970*—December contracts for future construction work sustained November's strong level and brought 1970 to a close on a note of improvement. However, the surge of homebuilding that boosted the December totals came too late to prevent a small decline in construction contracting for the year as a whole. December's total contract value of $4,973,792,000 was 5% below last December but brought the Dodge Index to 205 (1957-59=100) in 1970's final month. On an annual basis the 1970 Dodge Index came to 189 as the year's $67,096,898,000 of newly-contracted construction fell short of 1969's total by 1%.

*Nonresidential* building contract value was $1,693,-214,000 in December and $24,180,400,000 for the year. December's amount was 22% below the comparable year-ago monthly total while the annual value of nonresidential building contracts was down 6%.

*Residential* contract value in December, at $2,045,-259,000, was 17% ahead of the same month of 1969. The full year total was down 3%, to $24,427,540,000.

*Nonbuilding* construction value was 7% off the year-ago pace in December with a $1,235,319,000 total, but showed a 12% gain for all of 1970 at $18,488,958,000.

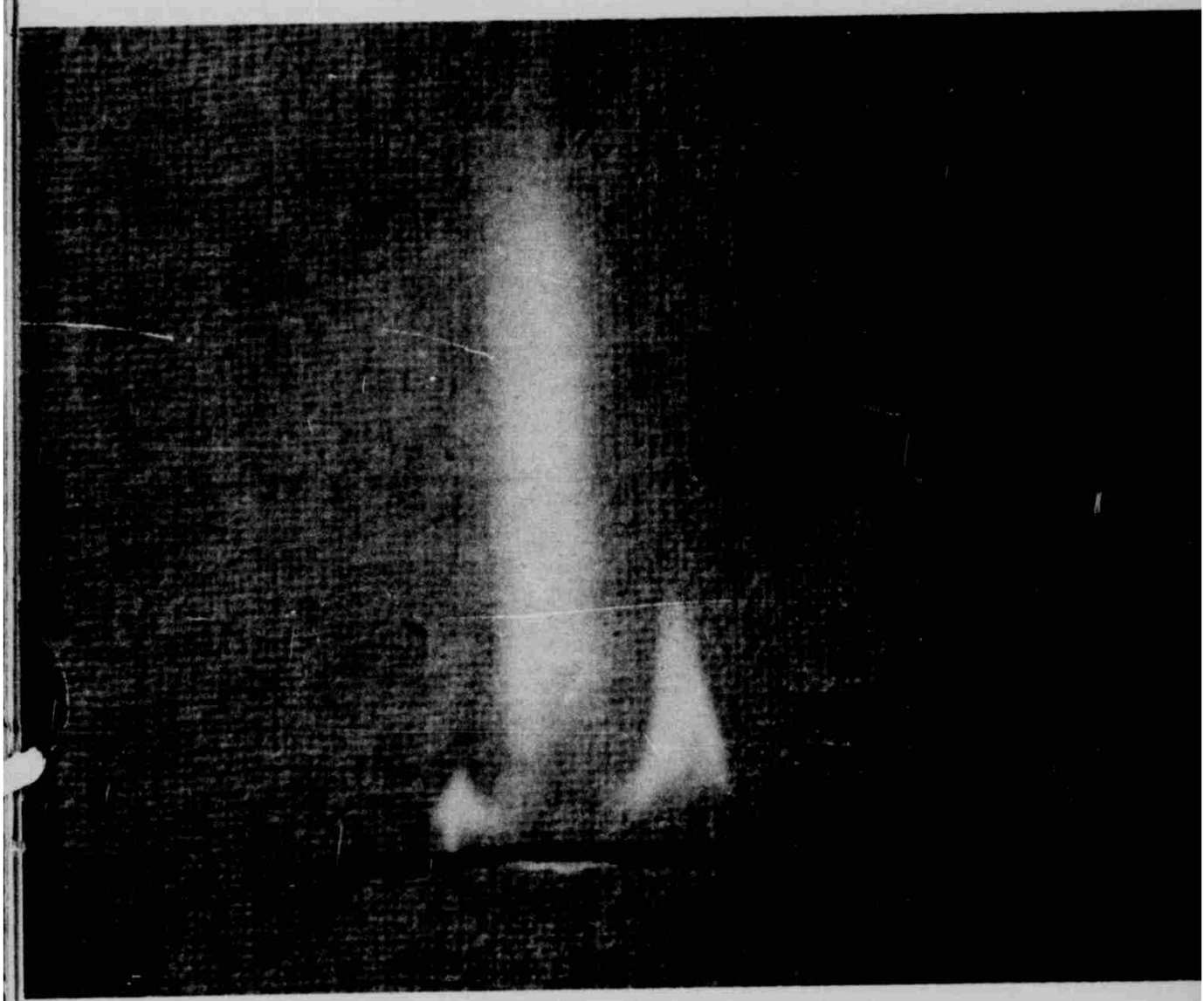
As noted by George A. Christie, Vice President and Chief Economist with F. W. Dodge, "1970 began and ended with the identical rate of contracting, but the construction market at the end of the year was very different from 12 months earlier. Housing was in a bad slump at the start of last year while industrial and commercial building was red hot. But in the spring worsening business conditions forced a sharp reduction of factory and office building projects and by the year's final quarter this type of construction was only a little more than half its first quarter rate. The void left by declining business construction was eventually filled by the revival of homebuilding which responded hungrily to the combination of easier money and government subsidies. In 1970's fourth quarter the rate of residential building value was 25% higher than it was during the first 3 months, and December's rate hit an all-time high. Even though the dollar value of last year's $67 billion construction contract total came



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very close to the record 1969 amount, 1970's inflated building costs shrank the physical volume of construction actually realized by at least 7%. Unless some form of external restraint is brought to bear on the industry before the spring series of wage negotiations with the building trades gets underway, 1971's construction costs are certain to be up by an even bigger percentage."

## MOTOR VEHICLE FACTORY SALES

*NOVEMBER 1970* motor vehicle factory sales from plants in the *United States* totaled 454,671 (passenger cars—364,092; trucks & buses—90,579). The cumulative total for the *First Eleven Months of 1970* was 7,502,878 compared with 9,356,244 for the same period last year.

Motor vehicle factory sales from plants in *Canada* totaled 80,755 for *November 1970* compared to 126,532 in November 1969. The cumulative total from *January-November 1970* was 1,096,155 against 1,229,716 for the like 1969 period.


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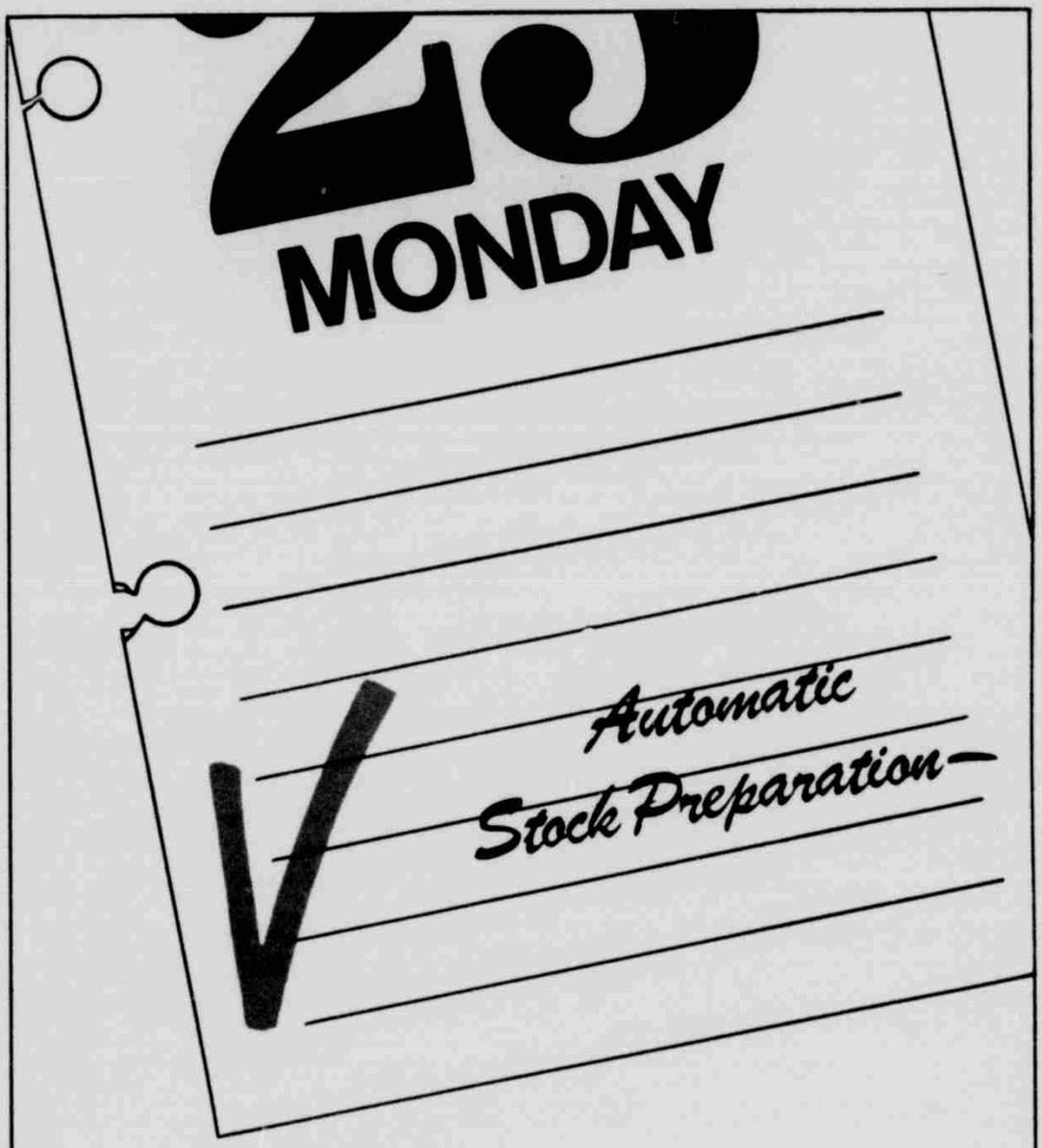
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## NEWS FROM TRADE ASSOCIATIONS

THE FLUID SEALING ASSOCIATION elected *Robert B. Park* as its new president and *Brent H. Farber, Jr.*, as Secretary-Treasurer, succeeding William S. Hough.

President Park is Manager of Sales Operations in the Industrial Rubber & Packing Division of Raybestos-Manhattan, Inc. He joined R/M in 1954 as a Branch Manager in the San Francisco area.

The Association was formed 37 years ago and its present membership includes 40 manufacturers of packings, gaskets, mechanical seals and expansion joint materials. Its headquarters are located at 2017 Walnut Street, Philadelphia, Pennsylvania 19103.

THE QUEBEC ASBESTOS MINING ASSOCIATION elected the following new officers for the year 1971: *President—W. W. Oughtred,* President and Chief Executive Officer of Asbestos Corporation Ltd.; *Vice President—F. Parker Smith,* President of Bell Asbestos Mines Ltd.; *Treasurer—George Robinson;* and *General Manager—Paul Filteau.*

New QAMA Directors include: *J. R. M. Hutcheson,* Vice President and General Manager of Canadian Johns-Manville Co. Ltd.; *Dr. R. J. Merrill,* President of Carey-Canadian Mines Ltd.; *M. C. Carpenter,* Vice President of Flintkote Mines Ltd.; *M. J. Messel,* President of Lake Asbestos of Quebec Ltd.; and *R. S. Coleman,* Vice President of National Asbestos Mines Ltd.

THE ASSOCIATION OF BRITISH MINING EQUIPMENT EXPORTERS is investigating the possibility of mounting a mission to 5 Eastern European countries in May, 1971, to establish contact with the mining industries of Poland, Czechoslovakia, Hungary, Romania and Yugoslavia and to ascertain the short- and long-term possibilities for the export of British mining equipment. ABMEX also hopes to attract an inward mission of U.S. coal mine operators to visit Britain in June of this year.



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# PRODUCTION - IMPORTS - EXPORTS

**Canada**—Producers' shipments of asbestos during *November 1970* totaled 161,244 short tons (142,349 tons from Quebec plants and 18,895 tons from plants in Newfoundland, Ontario, British Columbia & the Yukon). The total for November 1969 was 160,133 tons. [Dominion Bureau of Statistics, Ottawa]

**Australia**—The following statistics were issued by the Bureau of Mineral Resources, Geology & Geophysics, Canberra, and cover the period *January-March 1970*.

*Production* of Chrysotile asbestos, all in New South Wales, totaled 180 short tons.

*Imports* reached 17,282 short tons, valued at $2,459,000: Chrysotile, 14,327 tons, valued at $2,126,000; Amosite, 2,595 tons, valued at $314,000; and Other Types, 360 tons, valued at $19,000.

*Exports* of all Types and Grades amounted to 225 tons, valued at $64,000.

**Australia**—Production of non-acoustic asbestos-cement sheets from *January-June 1970* totaled 20,402,000 square yards. The total figure for the *Year 1969-70* was 42,120,000 square yards. This compares with 38,071,000 square yards in 1968-69 and 36,251,000 square yards in 1967-68. [To conform with a similar change in the annual Mining Census, the Commonwealth Bureau of Census & Statistics, Canberra, is now publishing all annual figures based on 12-month periods ending June 30.]

## SURVEY OF MINES

The new 1971 edition of the "Survey of Mines" is now available and provides the investor with an up-to-date, comprehensive review of the past performance and future plans of thousands of Canadian companies. ($9.00 per copy; available through ASBESTOS or direct from the publisher, The Financial Post, Toronto)

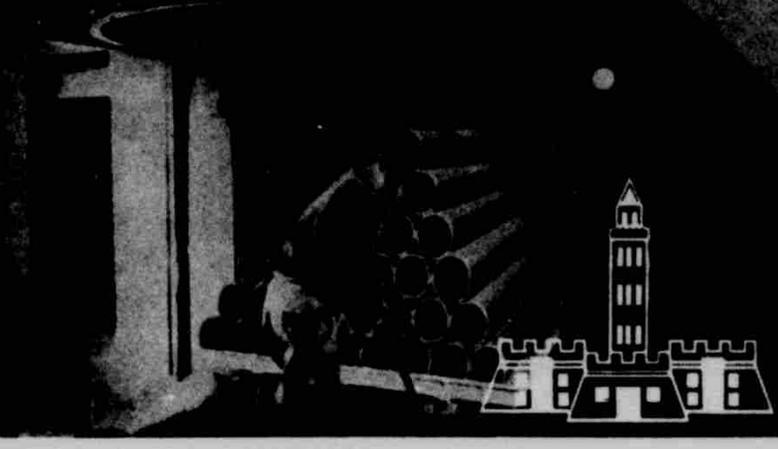
## AUSTRALIAN PUBLICATION

**Mineral Exploration, No. 5, 1968-69** has been issued by the Commonwealth Bureau of Census & Statistics, Canberra. Part I sets forth statistics of exploration for minerals, other than petroleum, which statistics were derived from the annual Mineral Exploration Census. Included for the first time are classifications of private exploration by size of expenditure. The data obtained in the Census are divided into four categories: private exploration on production leases, private exploration on other licensed areas, other private exploration, and exploration by Government. Part II of the Bulletin relates to petroleum exploration and is based on information collected by the Bureau of Mineral Resources, Geology & Geophysics.



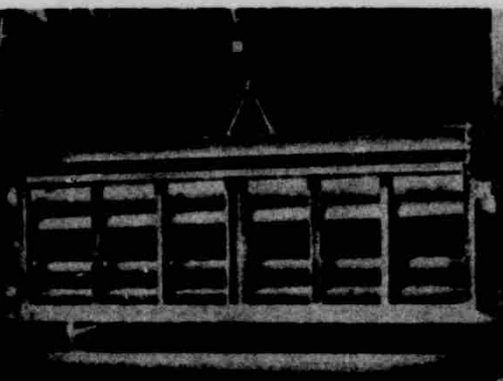
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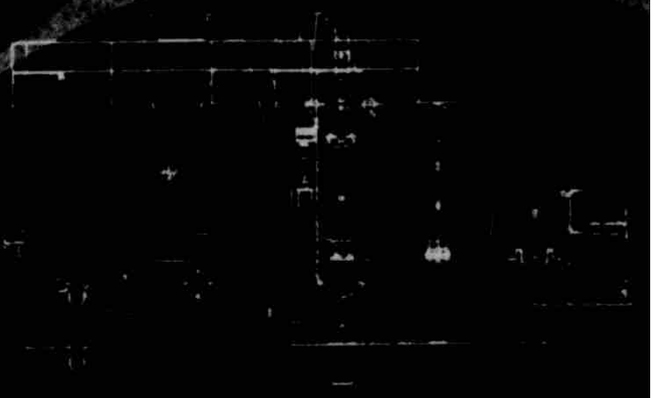


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## Imports Into U.S.A.

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

| *Unmanufactured Asbestos:* | Short Tons SEP 1970 | OCT 1970 |
|---|---|---|
| Amosite, South Africa | 1,332 | 892 |
| Crocidolite (Blue), South Africa | 320 | 696 |
| Chrysotile, Crude, Canada | 30 | .. |
| South Africa | 90 | .. |
| Chrysotile, Spinning Fibers, Canada | 882 | 1,058 |
| Chrysotile, Other, Canada | 51,145 | 56,316 |
| Other Crudes & Fibers, Canada | 111 | 108 |
| Finland | 253 | 344 |
| Portugal | 20 | 5 |
| South Africa | 412 | 190 |
| Yugoslavia | .. | 1,686 |
| | 54,595 | 61,295 |

*September* unmanufactured asbestos imports were valued at $6,003,600

*October* unmanufactured asbestos imports were valued at $7,229,536

| *Manufactured Asbestos Goods:* | | SEPTEMBER 1970 | |
|---|---|---|---|
| Asbestos Yarn, Slivers, etc. | Lb | 271,173 | $236,635 |
| A-C Pipes, Tubes & Fittings | Lb | 2,695,079 | 172,290 |
| Asbestos-Cement Articles, Other | Lb | 1,918,555 | 207,025 |
| Asbestos Articles, Other | | .. | 212,398 |
| | | | $828,348 |

| | | OCTOBER 1970 | |
|---|---|---|---|
| Asbestos Yarn, Slivers, etc. | Lb | 209,910 | $245,867 |
| AC-Pipes, Tubes & Fittings | Lb | 6,226,673 | 286,084 |
| Asbestos-Cement Articles, Other | Lb | 2,634,412 | 323,045 |
| Asbestos Articles, Other | | .. | 165,817 |
| | | | $1,020,813 |


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## Exports From U.S.A.

**(Figures from U.S. Bureau of the Census)** **OCTOBER 1970**

| | | | |
|---|---|---|---|
| *Unmanufactured Asbestos:* | | | |
| Crude & Spinning Fibers | s. tons | 1,333 | $ 319,512 |
| Non-Spinning Fibers | s. tons | 1,706 | 254,199 |
| Waste & Refuse | s. tons | 1,110 | 124,145 |
| | | 4,149 | $ 697,856 |
| *Manufactured Asbestos Goods:* | | | |
| A-C Shingles & Clapboard | Lb | 2,583,783 | $ 241,906 |
| Other Asbestos-Cement Articles | Lb | 434,390 | 83,056 |
| Asbestos Gaskets | Lb | 39,963 | 52,892 |
| Asbestos Packing | Lb | 351,830 | 497,571 |
| Asbestos Heat or Sound Insulation | | .. | 214,730 |
| Asbestos Textiles & Yarns | Lb | 91,213 | 147,735 |
| Asbestos Protective Clothing | | .. | 5,702 |
| Mfrs. Other than Friction Materials | | .. | 287,170 |
| Clutch Facings & Linings for Auto. Use | No | 69,317 | 88,167 |
| Clutch Facings & Linings, Other | No | 77,336 | 24,773 |
| Brake Linings for Automotive Use | Lb | 486,737 | 366,006 |
| Asbestos Brake Linings, Other | Lb | 181,250 | 147,186 |
| | | | $2,156,894 |

## Exports From Canada

**(Published by Dominion Bureau of Statistics)** **OCTOBER 1970**

Short Tons

| *Unmanufactured Asbestos:* | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe | 3 | 1,177 | 30,976 | 14,799 |
| Eastern Europe | .. | .. | 302 | .. |
| Middle East | .. | 50 | 2,372 | 650 |
| Africa | .. | .. | 808 | 110 |
| Asia | .. | 183 | 10,849 | 15,743 |
| Oceania | .. | .. | 6,805 | 2,373 |
| So. & Cen. America & Antilles | .. | 34 | 10,452 | 2,370 |
| United States | 5 | 934 | 14,859 | 35,146 |
| | 8 | 2,378 | 77,423 | 71,191 |

The total amount of unmanufactured asbestos exported in *October 1970* was 151,000 short tons, valued at $22,155,000.

| *Manufactured Asbestos Goods:* | |
|---|---|
| Asbestos Brake Lining & Facings | $128,000 |
| Asbestos-Cement Building Materials | 404,000 |
| Asbestos Basic Products, Other | 207,000 |
| | $739,000 |

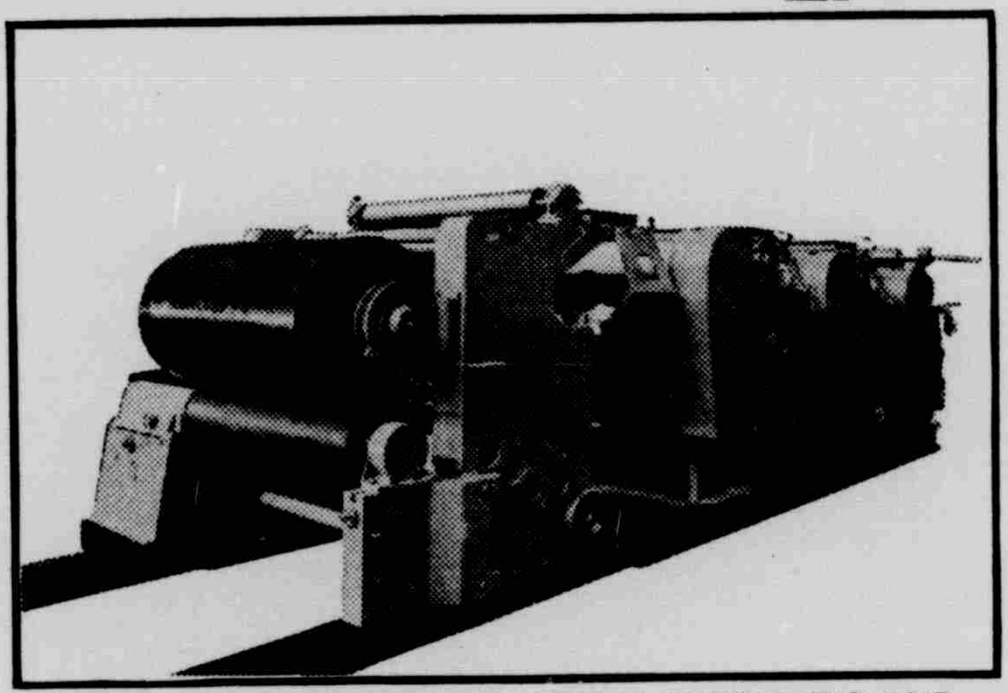


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# BIRTHDAY GREETINGS TO . . .

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

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

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

J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, Canada, March 19.

Byron C. Radaker, Corporate Vice President of Marketing, Certain-teed Products Corporation, Valley Forge, Pa., March 19.

Herbert E. Sunbury, Executive Secretary, Asbestos Textile Institute, Pompton Lakes, New Jersey, March 21.

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

Edward A. Corbett, Vice President, Asbestos & Magnesia Materials Co., Chicago, Illinois, March 24.

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

George Barge, Executive Vice President & General Manager, Atlas Asbestos Co., Montreal, Quebec, Canada, March 27.

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

A. E. Alpine, Vice President-Asbestos Products, Certain-teed Products Corporation, Valley Forge, Pa., March 29.

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

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

D. B. Tingle, Vice President & General Manager of Floor, Carpet & Consumer Products Operations, Armstrong Cork Co., Lancaster, Pa., March 31.

M. Phillips, Wharf Supervisor, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, B.C., Canada, April 1.

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

Francis H. May, Jr., Executive Vice President & Finance & Administrative Officer, Johns-Manville Corporation, New York City, April 2.

W. P. Archer, Mine Manager, Coalinga Asbestos Co., Coalinga, California, April 4.

Joseph E. Kindregan, Director of Corporate Marketing Projects, Johns-Manville Corporation, New York City, April 4.

Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Co., St. Laurent, Montreal, Quebec, Canada, April 5.

A. C. Beguin, Manager of Operations, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, April 8.



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Alfred A. Bowe, Sales Administrator, Carey-Canadian Mines Ltd., Cincinnati, Ohio, April 8.
Stuart Charbula, Executive Assistant to the President, Hedman Mines Ltd., Timmins, Ontario, Canada, April 8.
Ernest S. Sprinkmann, Jr., Executive Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, April 8.
Raymond J. Sachs, President, Porter-Hayden Co., Baltimore, Maryland, April 10.
Henry B. Moreno, Vice President for Industrial Divisions, Johns-Manville Corporation, New York City, April 11.
W. E. Royds, General Superintendent, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Yukon Terr., Canada, April 11.
M. De Rouin, Mill Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Terr., Canada, April 13.
P. H. Riordon, President, Minorex Ltd. (wholly-owned subsidiary of Asbestos Corporation Ltd.,) Vancouver, B.C., Canada, April 13.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.

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## COLOMBIAN ASBESTOS

According to an assessment by the Instituto de Investigaciones Geologico-Mineras, Columbia's mineral resources include 0.3 million metric tons of short-fiber asbestos. The evaluation is based on geological surveys that have been conducted by the Institute during the last ten years. (Mining Journal)

## CYPRUS GEOLOGICAL SURVEY REPORT

The Geological Survey Department, Republic of Cyprus, has issued its "Annual Report for the Year 1969."

As far as asbestos exploration is concerned, an area of 1.03 square miles northwards from the 49th milepost along the Nicosia-Troodos Road was geologically mapped in detail on 1:1000 scale maps. The aim of the work was to prepare a detailed geological map and delimit the promising zones of asbestos mineralization. The rocks consist wholly of smashed, sheared, brecciated and faulted bastite-serpentinite with many dunite apophyses and a few chromite and peridotite veins. Chrysotile and picrolite occur together as a network of thin cross-fiber veins within the bastite-serpentinite. Delimitation of the various mineralized zones has been achieved and the percentages of the mineralized areas are: Good—34.2%; Fair—14.5%; Little—51.3%.

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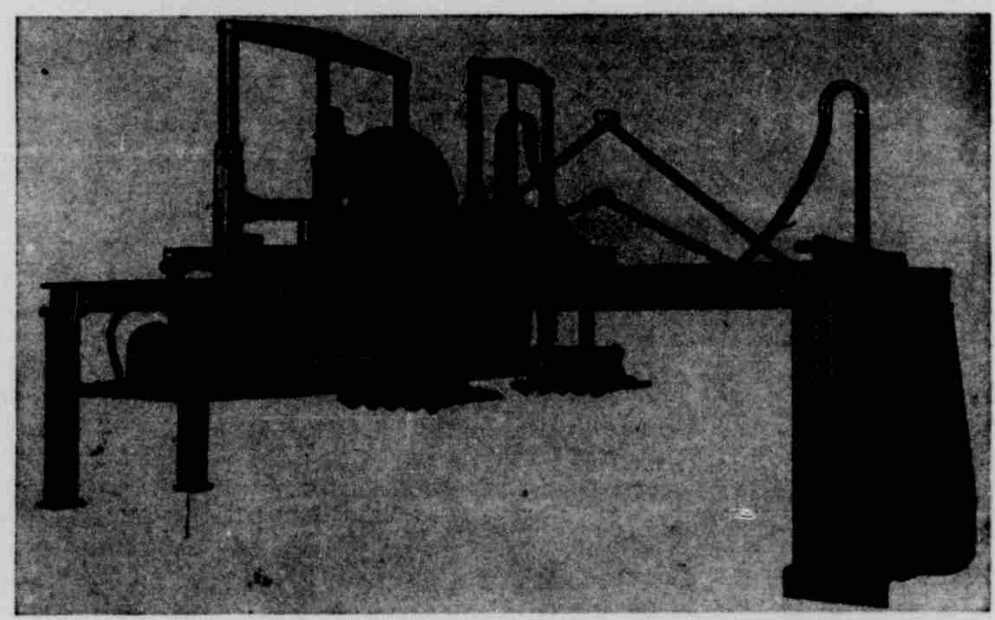
*Next Issue . . . Garlock Chapter of the History of the U. S. Asbestos Textile Industry*



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**Asbestos**—In 1969 the United States exported 34,522 short tons of unmanufactured asbestos, valued at $4,626,000. The value of manufactured asbestos products exported was $28,158,000. Reexports of unmanufactured asbestos reached 1,651 tons, valued at $353,000 and the value of asbestos products reexported was $25,000.

U.S. imports for consumption of unmanufactured asbestos totaled 694,558 tons, valued at $76,422,000 (Crude, including Blue, 32,816 tons, $5,303,000; Textile Fiber, 15,974 tons, $5,928,000; All Other, 645,768 tons, $65,191,000.

Production (shipments) of asbestos in the United States in 1969 increased 4% in volume (to 125,936 tons) and 2% in value (to $10,648,000) over the previous year. A record high in output was established in 1969, surpassing the previous high set in 1966 (125,928 tons). Nearly all of the U.S. asbestos production was short fiber asbestos and supplied 16% of domestic requirements. Production was from four States: 60% from California, with Vermont ranking second, followed by Arizona and North Carolina. Production in California increased only slightly to 75,828 tons of Chrysotile in 1969 and the value decreased $183,000. California producers include Atlas Asbestos Corporation and Coalinga Asbestos Company in Fresno County, Pacific Asbestos Corporation in Calaveras County, and Union Carbide Corporation in San Benito County. GAF Corporation's Building & Industrial Floor Products Division produced Chrysotile asbestos from its Lowell Mine, Orleans County, Vermont. Output was 9% greater than in 1968. The several Grades produced were sent out of the State for processing into heat-resistant products. Arizona asbestos production (all in Gila County) increased almost 30%. The producers were Asbestos Manufacturing Company, Jaquays Mining Corporation and Metate Asbestos Corporation. North Carolina (Powhatan Mining Company; Yancey County; Anthophyllite asbestos) reversed a downward trend and gained 18% over 1968 production.

Overall demand for asbestos in 1969 declined slightly primarily as a result of tight money conditions. The resulting high interest rates restricted the availability of mortgage funds for home building. A slowdown in the building and construction industries during 1969 was reflected in a 4% drop in apparent consumption (784,321 tons) from the year-ago level. Chrysotile asbestos accounted for over 96% of the total amount consumed in the United States in 1969; Amosite accounted for slightly over 2%; and Crocidolite accounted for less than 2%.

The Tax Reform Act of 1969 reduced domestic asbestos depletion rates from 23% to 22% effective with taxable years beginning after October 9, 1969. The General Services Administration in 1969 disposed of 2,294 tons of Amosite, 2,663 tons of Crocidolite and 336 tons of Chrysotile from Government Inventories. U.S. Government inventories as of December 31, 1969, totaled 127,747 tons (63,688 tons of Amosite, 14,708 tons of Chrysotile, 3,752 tons of sub-specification Chrysotile, and 45,599 tons of Crocidolite.

No asbestos was received from Southern Rhodesia in 1969, having been embargoed by Presidential order dated January 5, 1967. The




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small quantities received through 1968 probably were entered from bonded warehouses or shipped from stocks in other countries which were exported from Southern Rhodesia prior to December 1966.

An estimated 70% of the world's production of all types of asbestos fiber was used in asbestos-cement building materials and asbestos-cement pipe. The second largest use was in the floor tile industry, with U.S. consumption estimated at 200,000 tons. A total figure for world production of asbestos in 1969 is not given due to the unavailability of statistics from various countries. The total given for 1968 as 3,290,370 tons.

## OTHER MINES BUREAU REPORTS

The following publications have been issued by the U.S. Bureau of Mines and are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

**Summary of Mining & Petroleum Laws of the World—Part 1, Western Hemisphere** is a concise, up-dated guide to the mining and petroleum laws of 30 Western Hemisphere countries and colonies. The 159-page volume is the first in a 5-part series that will cover the mineral laws of all nations. (Catalog No. I28.27:8482; $1.25)

**Economic Potential of Mineral-Based Insulating Materials in Combating the Noise Problem in Residences** includes a brief review of the mechanics and effects of sound. Three model dwelling units were redesigned to achieve specific levels of noise reduction above that provided by conventional construction. Using 1968 prices, the added costs of materials and installation were found to range from $500 to $5000 depending upon the size of the dwelling unit and the degree of insulation. The potential aggregate expenditures for sound insulation materials are projected to reach $617 million in 1975, including about $408 million for the mineral-based materials, in 1968 constant dollars. (Information Circular No. 8466; 35c)

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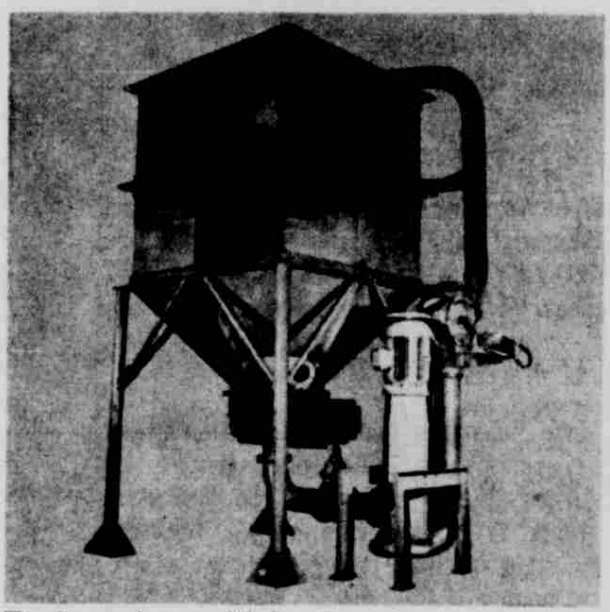
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## BOOKS, ARTICLES & PAPERS

**Asbestos: General Information, Recovery & Processing** has been published by A. W. Gentner Verlag, Stuttgart, Germany. Written in German, it is available either direct from the publishers or through ASBESTOS at $5.60 per copy, plus shipping and handling charges. The 130-page, paper-bound book contains many illustrations and tables and, according to the publishers, it should be especially educational to the younger members of the Asbestos Industry. Its intent is to fill in some of the gaps not covered in other literature concerning asbestos and to critically examine a number of unanswered questions.

**Fire Terms & Fire Tests,** by C. H. Yuill, appeared in the October 1970 issue of the ASTM publication, "Materials Research & Standards." According to the author, terms developed by technical groups for specific purposes may be misused in general application. Limitations in scope and meaning of terms and test procedures generally are not known to the consumer. Advertising and sales personnel frequently, often unwittingly, use such terms to indicate a degree of safety hardly justified by real life performance. This article deals with the need for a more discriminating selection of terms by responsible parties.

## CIM PAPERS

The following Papers were presented at the 72nd Annual General Meeting of the Canadian Institute of Mining and Metallurgy and have been reprinted in their entirety in the October 1970 issue of the CIM Bulletin. Reprints of most of the papers published in the CIM Bulletin are available at $1.00 per copy from the Institute, Suite 906, 1117 Sainte Catherine Street West, Montreal 110, Quebec.

**The Future of Computers in the Mining and Metallurgical Industries,** by A. L. Mular, summarizes the present-day usage of computers in the mining-metallurgical industry. Reductions in the cost of computers and computing have been significant factors toward improvement in the operation of processing plants, production schedules, grade control and haulage performance.

**The Use of Mathematical Modeling in Developing Advanced Control Systems for Mining Industry Processes,** by J. H. C. Scrimgeour, R. E. Hamilton and T. Toong, describes the principles involved in the use and application of mathematical models as an aid to the development of advanced process control computer systems and briefly surveys known models of this kind for the simulation of mining industry processes.

**Nature and Usefulness of Simulation as it Applies to Equipment Selection at an Open-Pit Mine,** by D. R. Jolley, shows how the computer is used to decide which equipment and operating decisions will achieve the required production objectives at the least cost.



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## ACTION ON STANDARDS

**Canadian Standard 51-GP-1a**—Thermal Insulation (Amosite) for Piping, Machinery & Boilers; applies to fibrous asbestos thermal insulation for piping, machinery and boilers, essentially for but not restricted to marine use, where the temperature of the hot metallic surface is between 100°F and 1200°F (38°C and 649°C). (Canadian Government Specifications Board, 15c).

**Canadian Standard 51-GP-2a**—Thermal Insulation (Calcium Silicate-Asbestos) for Piping, Machinery & Boilers; applies to said thermal insulation, essentially for but not restricted to marine use, where the temperature of the hot metallic surface is between 100°F and 1000°F (38°C and 538°C). (Canadian Government Specifications Board, 25c).

**Indian Standard IS: 5531 1969**—Specification for Cast Iron Specials for Use with Asbestos-Cement Pressure Pipes; applicable to pipes suited for lead joints or rubber joints or a combination of both; provides for certification marking of the product manufactured according to specification under the ISI Certification Marks Scheme. (Indian Standards Institution; R6.50 per copy)

**National Fire Codes 1970/71**—206 authoritative fire safety standards, codes, recommended practices and manuals. The individual volumes are concerned with Flammable Liquids, Ovens & Boiler-Furnaces; Gases; Combustible Solids, Dusts & Explosives; Building Construction & Facilities; Electrical; Sprinklers, Fire Pumps & Water Tanks; Alarm & Special Extinguishing Systems; Portable & Manual Fire Control Equipment; Occupancy Standards & Process Hazards; and Transportation. (National Fire Protection Association; $5.00 per volume and $40.00 for the complete set of 10 volumes)

## INVESTMENT OPPORTUNITY

**Tolima Co., Inc.,** Eisenhower Avenue, Moghabel Vezarat-Kar, Tehran, Iran, desires an association with a U.S. firm with experience in designing and producing simple but comfortable prefabricated housing units, primarily for the housing of industrial workers at plant sites. The company is also interested, to a lesser degree, in industrial-type, locally-manufactured mobile homes. The association could be on a joint-venture-equity-sharing basis, although this is not a requirement. Design, new ideas plus organization and production skills are more immediate needs than is capital.

Tolima Company is one of Iran's leading importers of construction equipment, principally from Europe, and operates a plant on Karaj Road, between Tehran and Karaj, for the construction of industrial-type trailers and for the assembly of construction equipment. The market presently envisaged by Tolima is entirely domestic but there is little reason to doubt that export sales could be developed in nearby countries.



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# ASBESTOS STOCK QUOTATIONS

**CLOSE—JANUARY 26, 1971**

| | | | |
|---|---|---|---|
| Abitibi Asbestos | *$4.50 | Gulf & Western | 22¾ |
| Advocate Mines | *$2.15 | G&W (pfd 1.75) | 75 |
| Asarco | 27⅞ | G&W (pfd 3.50) | 96 |
| Armstrong Cork | 35½ | G&W (pfd 3.87) | 54¾ |
| Armst Cork (pfd 3.75) | 60 | G&W (pfd 5.75) | 69 |
| Asbestos Corporation | *$34.25 | Illinois Central | 31⅞ |
| Bendix | 32¾ | Ill. Central (pfd 3.50) | 54⅞ |
| Bendix (pfd 3) | 53⅜ | Johns-Manville | 42 |
| Carlisle | 17¼ | Maremont | 11⅞ |
| Cassiar | *$23.50 | National Gypsum | 24¾ |
| Cerro Corporation | 17⅞ | Natl Gypsum (pfd 4.50) | 64⅝ |
| Certain-teed | 29 | Pacific Asbestos Ltd. | *$1.45 |
| C-teed (pfd .90) | 28 | Panacon | 2¾ |
| Conwest | *$9.75 | Porter (pfd 5.50) | 73 |
| Flintkote | 28⅜ | Raybestos-Manhattan | 27¾ |
| F-kote (pfd-A 4.50) | 85 | Royal Industries | 8⅜ |
| F-kote (pfd-B 2.25) | 39½ | Unarco | 13 |
| GAF Corporation | 13¾ | Union Carbide | 44¼ |
| GAF (pfd 1.20) | 22 | Uniroyal | 21 |
| Garlock | 19⅜ | Uniroyal (pfd 8) | 110¼ |
| Grace | 32⅞ | United Asbestos | 3⅞ |

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


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# NEW ASBESTOS PATENTS

[Beginning with this issue, Mr. North will supply us with a list of patents issued not only in the United States but in other countries as well.]

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 857,371*—Asbestos-epoxy, resin-magnesite composition of excellent resistance to chemical attack and to corrosion by an electric current arc; R. M. Luck & G. C. Gainer; assigned to Westinghouse Electric Corporation; December 1, 1970; 29 pages.

*Canadian 857,136*—Closed-circuit wet process for milling asbestos ore and separating fine fiber products; J. Laurent; assigned to Centre de Recherches de Pont-a-Mousson; December 1, 1970; 34 pages.

*Canadian 857,779*—Shearing method for dispersing Coalinga Chrysotile or similar asbestos agglomerates or pencils into near-unit fibrils; R. F. House; assigned to National Lead Co.; December 8, 1970; 27 pages.

*Canadian 857,957*—Method for producing high-strength sheet packings from asbestos, diatomite, rubber and hydrated calcium silicate; H. J. Palumbo; assigned to Johns-Manville Corporation; December 8, 1970; 18 pages.

*German 1,906,746*—Production of asbestos-containing calcium silicate thermal insulation boards or other shapes having reduced tendency to shrink or undergo distortion; T. L. Forsyth; assigned to Newalls Insulation & Chemical Co. Ltd.; October 9, 1969; 17 pages.

*Russian 228,434*—Use of up to 80% of asbestos in a molding composition suitable for use in the manufacture of drain pipe or sewer pipe having improved resistance to both acidic and alkaline media; A. P. Kovalenko, et al; March 31, 1969; one page.

*U.S. 3,547,669*—Use of a silicified, chemically stabilized, finely defiberized Chrysotile asbestos in paint composition; O. A. Battista; assigned to FMC Corporation; December 15, 1970; 6 pages.

*U.S. 3,549,391*—Use of both asbestos and tremolitic talc in a composition for undercoating vehicle bodies as protection against corrosion; C. R. Miller & P. J. Holtzapfel; assigned to Ashland Oil, Inc.; December 22, 1970; 7 pages.

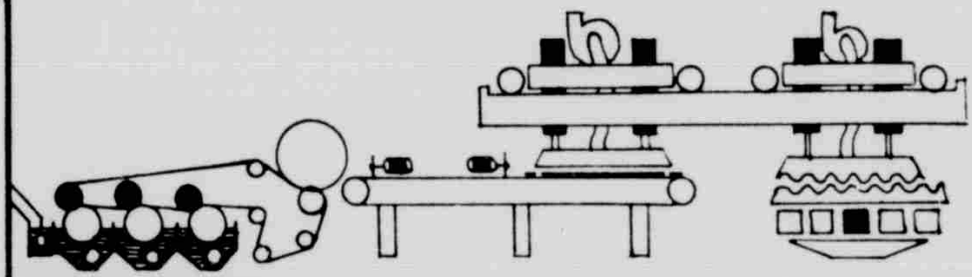
*U.S. 3,551,,205*—A composite paper electrode for voltaic cell comprises a mixture of water-laid, long-fiber asbestos and acetylene carbon black particles; A .V. Fraioli, W. A. Barber & A. M. Feldman; assigned to American Cyanamid Co.; December 29, 1970; 3 pages.



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# MEN ON THE MOVE

## JOHNS-MANVILLE CORPORATION

**Chester J. Sulewski** was named Vice President—Growth Planning & Development. He joined J-M in 1952 and was resident engineer during the construction and early operation of J-M's pipe plant at Denison, Texas. He was appointed Director of Corporate Planning Operations in 1969.

**Henry B. Moreno** has filled the newly-created position of Vice President for Industrial Divisions and will be responsible for Fiber Glass Insulations, Industrial Insulations, and Packings & Friction Materials Divisions. He continues as a Vice President of the J-M Sales Corporation. He joined the company in 1949 as an industrial insulations salesman and had been General Manager of the Packings & Friction Materials Division since 1969.

**Monroe Harris** was appointed a Vice President of Johns-Manville and will continue as General Manager of the Pipe Division. He joined J-M in 1948 as a salesman in Phoenix, Arizona.

**G. P. Loubert** has been General Manager of the Canadian Products Division since January 1st. In addition to his new duties he continues as a Vice President of Canadian Johns-Manville Co. Ltd. He joined J-M in 1952 and in 1967 he went on special assignment to Paris as Production Engineer for all J-M manufacturing operations in Europe.

## NORTH AMERICAN ASBESTOS CORPORATION

**C. G. Morgan** was named Vice President and General Manager of NAAC, a subsidiary of The Cape Asbestos Co. Ltd. He was formerly a Vice President of Eagle-Picher Industries, Inc., and Manager of E-P's Lusterlite Division. **Mrs. Joan Holtze** continues as NAAC's Corporate Secretary and **James Polizzi** remains as Vice President and Sales Consultant.

## PANACON CORPORATION

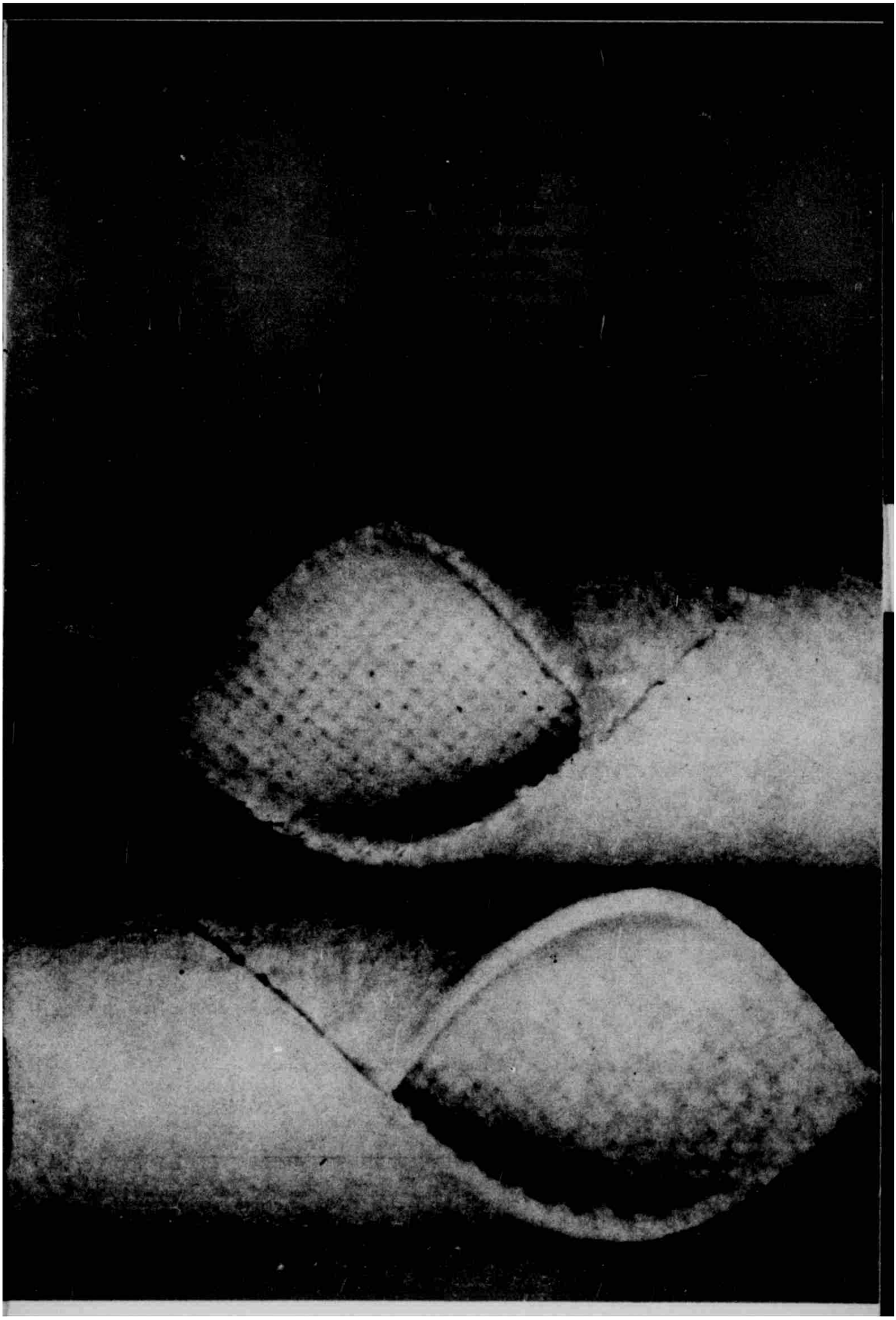
**Alvin Joseph Piller** is now Section Manager for Interior Products in the Research Department of Panacon. Before joining the company last October Mr. Piller worked in the Professional Products Division of the Revlon Company.

## H. K. PORTER CO., INC.

**Juergen H. Zaha** was appointed Works Manager for the Thermoid Division's Bennettsville Works, South Carolina, which manufactures a range of asbestos textile products. Prior to his new appointment Mr. Zaha had been Works Manager at another Thermoid asbestos textile plant.



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# CALENDAR OF EVENTS

**ASTM Committee Week**—Sheraton-Biltmore Hotel, Atlanta, Georgia, *February 28-March 5:* C-22 on Porcelain Enamel & Related Ceramic-Metal Systems, D-9 on Electrical Insulating Materials, D-10 on Packaging, D-20 on Plastics, E-5 on Fire Tests of Materials & Construction.

**Canadian Roofing Contractors Association**—12th Annual Meeting & National Convention, Hotel Vancouver, Vancouver, British Columbia, *March 2-5.*

**National Remodeling Association**—Convention Hall & Convention Headquarters, The Traymore Hotel, Atlantic City, New Jersey, *March 5-7.*

**ASTM Committee D-14 on Adhesives**—Hotel Monleleone, New Orleans, Louisiana, *March 10-12.*

**Noise & Vibration Control Seminars**—sponsored by Bolt Beranek & Newman Inc., *March 10-12 or 15-16* in Orlando, Florida, March 24-26 or 29-30 in New Orleans, Louisiana, April 2-3 or 6-8 in Houston, Texas, and April 12-13 in Dallas, Texas.

**NAM Institute on Industrial Relations in 1971**—sponsored by the National Association of Manufacturers, March 21-25 at the Sonesta Beach Hotel, Key Biscayne, Florida, and June 13-17 at Jackson Lake Lodge, Grand Teton National Park, Wyoming.

**Roofing Technology Conference**—sponsored by the National Bureau of Standards and the National Roofing Contractors Association, NBS facilities, Gaithersburg, Maryland, March 22-23.

**Plant Engineering & Maintenance Show and Conference,** Convention Center, Cleveland, Ohio, *March 22-25.*

**ASTM Committee D-13 on Textile Materials**—Belmont Plaza Hotel, New York City, March 22-26.

**ASTM Committee C-16 on Thermal Insulation**—Sheraton Sumter Hotel, Charleston, South Carolina, March 28-31.

**ASTM Committee C-24 on Building Joint Sealants**—(Executive), ASTM Headquarters, Philadelphia, Pennsylvania, March 30.

**National Conference of States on Building Codes & Standards**—(National Bureau of Standards serves as Executive Secretary), Olde Colony Motor Lodge, Alexandria, Virginia, April 18-22.

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



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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?

*(February 1921 ASBESTOS)*

## New Advertiser: Howard Bros. Mfg. Co.

Representatives of the principal companies engaged in the mining, manufacturing, finishing and sale of asbestos and its products met in Philadelphia to effect a permanent organization to be known as THE ASBESTOS INDUSTRIES. Officers elected were: President, Dr. R. V. Mattison; Vice President, Sir John W. Carson; and Secretary-Treasurer, C. J. Stover. The purpose of the organization was to search for the true facts with respect to actual and probable uses of asbestos and to give extensive, intelligent publicity, through national magazines and other channels, to these findings.

The Census Bureau certified to the House of Representatives that the population of the United States on January 1, 1920, was 105,708,771.

Union Asbestos & Rubber Co. suffered damage of approximately $200,000 to its Chicago plant as a result of a fire of incendiary origin.

American Asbestos Co. of Norristown, Pennsylvania, exhibited a full line of asbestos textiles at the Philadelphia Automobile Show, with special emphasis on its well-known "Testbestos" brand of brake linings and clutch facings.

A comprehensive discussion of the value of heat insulating coverings in steam and other plants, by Chas. F. Wade, Lecturer in Fuel Economy at the University of Sheffield, England, appeared in this issue.

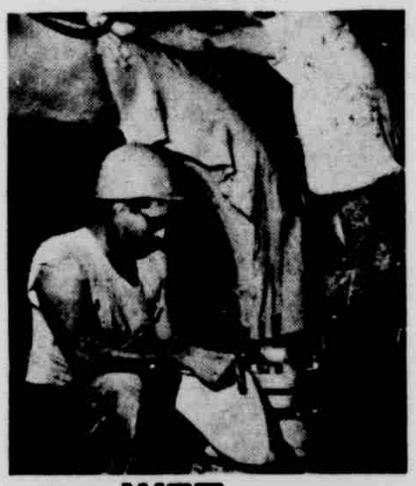
"The Story of Asbestos," a six-reel motion picture film produced by the U.S. Bureau of Mines in cooperation with H. W. Johns-Manville Co., was released. It showed mining operations in Quebec and Arizona and manufacturing facilities at the Manville, New Jersey, and Nashua, New Hampshire, plants.




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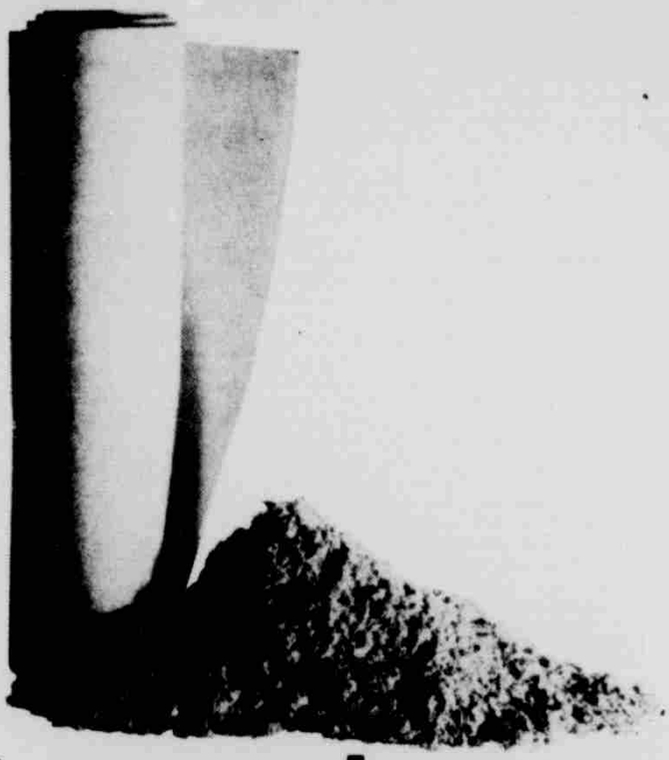
Speedlag is fitted and cut, then water-dipped to activate the integral adhesive, and placed in position—that's all. No coating of pipe and duct insulation with adhesive. And Speedlag's 100% inorganic adhesive serves as a filler, eliminating the need for sizing before painting. Speedlag is soft, pliable, lint-free.

Speedlag can be supplied in several weights and two ASTM Grades. Underwriters Grade base fabrics are manufactured to Fed. Spec. SS-C-466e, 7/2/64. AAA Grade base fabrics are available for insulation on merchant vessels covered by U.S. Coast Guard Specifications—Subpart 164.009.

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# Two good starts...

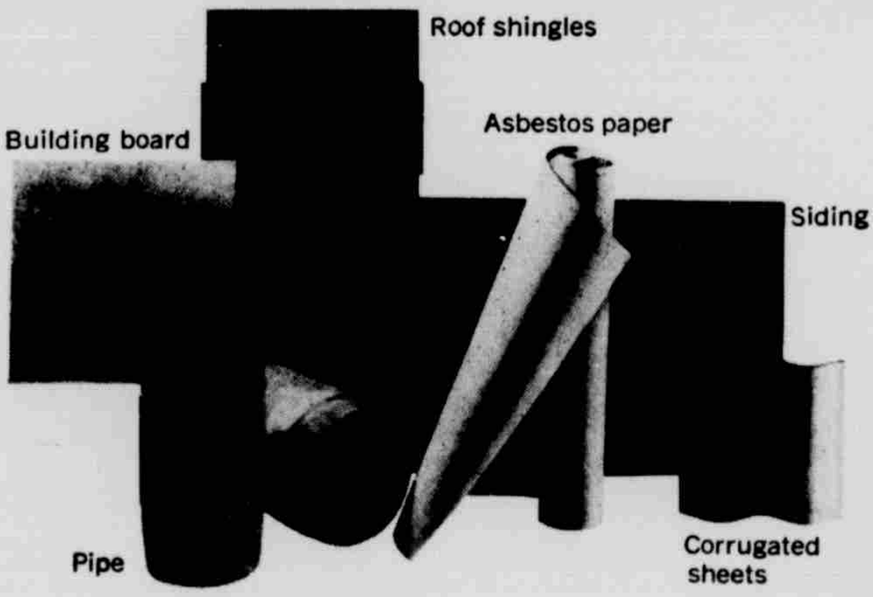
Start with GAF asbestos fibers and DRYLON® synthetic fiber felts and you'll end up way ahead in end-product quality.

Our involvement with asbestos fiber starts at our own Vermont mines. We control the quality from start to finish. And our standards are high. Partly for selfish reasons. Because much of the fiber ends up in our own asbestos products.

And asbestos fiber is only part of our story. If you make asbestos-cement products, get another head start with Drylon synthetic felt. It drains better, stays clean and keeps its shape longer, and imparts a smoother, more uniform finish to your product.

Put this starting team of quality GAF products to work for you. For full details write to: GAF Corp., Industrial Products Division, 140 W. 51 St., New York, N.Y. 10020. International Operations, 1180 Avenue of the Americas, New York, N.Y. 10036.

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