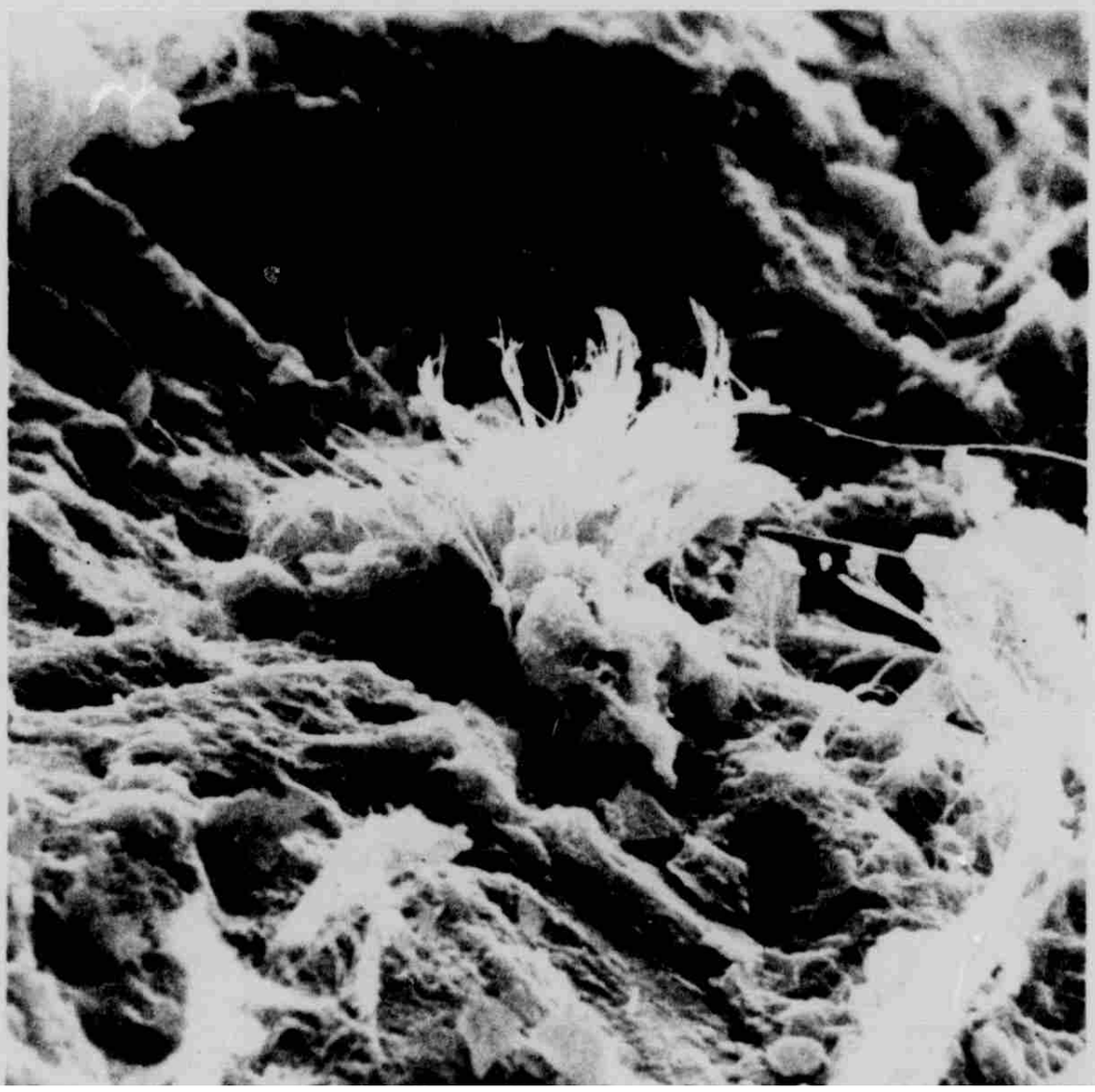
January 1973

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Devoted to the International Asbestos Industry

— Featuring —

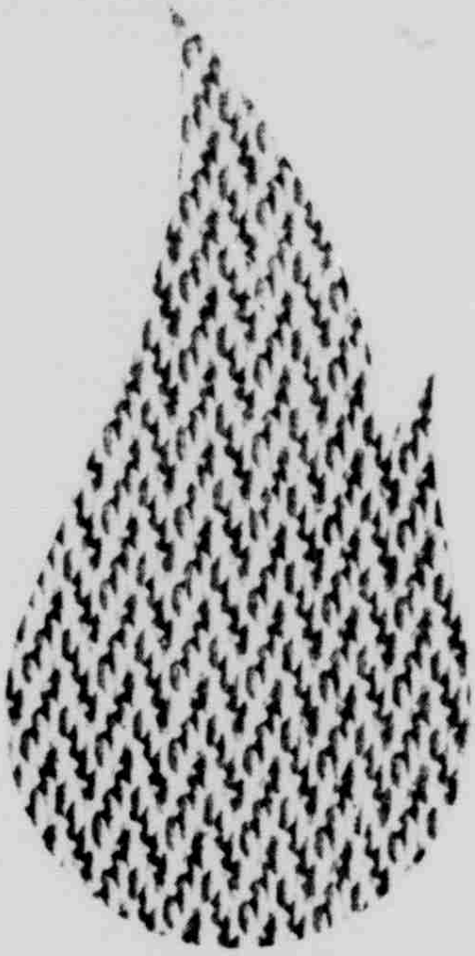
Greetings From Industry Leaders
The Scanning Electron Microscope



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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.

Raybestos Manhattan

ASBESTOS TEXTILE DIVISION BRIDGEPORT, CONN. 06603

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ASBESTOS

VOLUME 54 JANUARY 1973 NUMBER 7

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Greetings From Industry Leaders

AMATEX CORPORATION

J. L. RAINEY, President

It is again a pleasure to have this opportunity to extend Season's Greetings to our many friends in the Asbestos Industry.

As you may have noticed, we have adopted a new communicative name—AMATEX CORPORATION (formerly American Asbestos Textile Corporation). We view the adoption of this new name as a reflection of our development of new skills and new and better ways of serving our customers.

Although 1972 was a year of uncertainty for the Asbestos Industry, AMATEX achieved a new record in sales. We are looking forward to the coming year and are confident that we will continue to see an increase in demand for asbestos textiles.

Again best wishes for a happy Holiday Season and a very prosperous New Year from AMATEX CORPORATION.

ASBESTOS CORPORATION LTD.

W. W. OUGHTRED, President & Chief Executive Officer

It is with a good deal of pleasure that we take this opportunity through the medium of ASBESTOS Magazine to convey to all our friends in the Industry, the best wishes of Asbestos Corporation for the Holiday Season.

The year 1972 has been a noteworthy one from our Company's standpoint—the new Asbestos Hill Mine in far Northern Quebec came into production in August and the first shipment of concentrate to the Company's new mill in Nordenham, West Germany, was made in September. The plant in Nordenham will be in operation in 1973.

One of the major problems facing the whole Industry now and in the coming years is the unfortunate and to a great extent, exaggerated, campaign to discredit asbestos in the eyes of the public on the grounds that it constitutes a hazard to its health. All of us must take steps to ensure that our own operations are clean and safe and that there is control on the emissions of asbestos into the atmosphere. Moreover, whenever the opportunity arises, we must inform the public that asbestos can be used safely in the work-place and further that there is

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Asbestos

Vital at all the stops along the way.

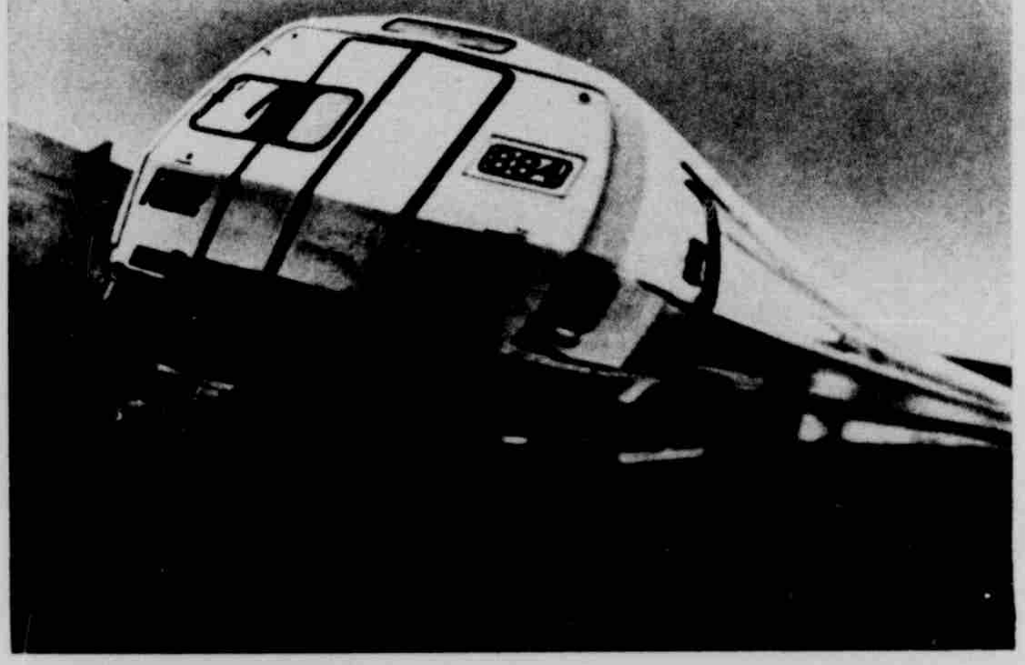
At speeds of up to 100 mph, Amtrak's New York-Washington, D.C. Metroliner needs all the stopping power it can get. So hard-working asbestos is used in the brake shoes on this cannonballing express.

Tough, lightweight, incombustible asbestos is a unique material. Indispensable for hundreds of protective uses—in industry, in homes and public buildings, in cars and trucks and trains, on ships, even on spacecraft.

Without asbestos, life for all of us would be a lot more hazardous.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fibre Sales, Box 5705-AFD, Denver, Colo. 80217 U.S.A.

Johns-Manville JM



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no evidence to indicate that exposure to the minute amounts of asbestos present in the atmosphere is a hazard to the general public.

ASBESTOS INVESTMENTS (PTY.) LTD.

F. W. SUTER, Managing Director

During last November, Asbestos Investments (Pty.) Ltd. celebrated its 21st birthday. Under the leadership of Chairman Dr. Ernst Schmidheiny, it has grown from humble beginnings to today's ASBESCO Group of Companies, producing over 100,000 tons of asbestos annually from six different and independent operating units.

Through this message the Management and Staff of ASBESCO would like to render its homage to Dr. Ernst Schmidheiny and Mr. H. R. Benecke, Managing Directors, who together have built the ASBESCO Group, on the occasion of their retirement from active duty. At the same time we would like to congratulate Dr. A. E. Schrafl on his appointment as the new Chairman of ASBESCO.

Besides actively pursuing growth objectives for our production facilities, particularly the Crocidolite mines in the Kuruman area, ASBESCO is now offering its technical expertise to other independent asbestos producers in the form of consulting services on a worldwide basis.

May we wish all our present and future customers and friends in the Asbestos Industry in general a happy and prosperous New Year.

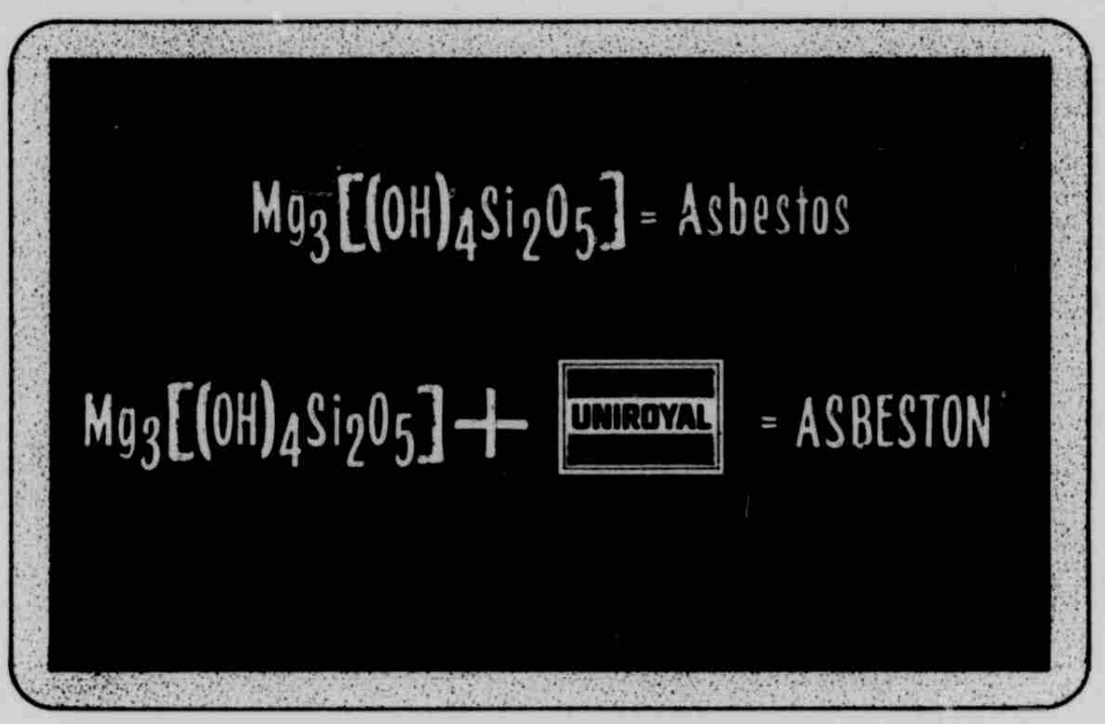
BBA GROUP LTD.

F. PEARSON, Chairman

The Group's worldwide sales of friction materials have continued to grow in 1972, although the market in the United Kingdom has been comparatively static. Sales of asbestos textile products have also increased, both in the U.K. and overseas, following the somewhat depressed situation in the previous year. This has enabled us to run our asbestos yarn plant at West Auckland more efficiently. We have invested a considerable amount in this plant which is undoubtedly one of the most advanced in the world in its arrangements for dust control, and we need increased sales of yarn and products incorporating yarn to absorb this expense.

It seems that the hazards of asbestos to health may be coming into perspective in the U.K.; published accounts of the danger to users of our products are less exaggerated. In some

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We put together a clever combination of asbestos, natural and man-made fibers and came up with ASBESTON®, the popular Uniroyal line of high temperature resistant yarns and fabrics. They'll take temperatures up to 750° F., yet offer high strength and dependability.

Chances are we already make a yarn or fabric you need. But if you've come up with a new idea let us engineer materials to your specification. We're always looking for new ways to put Asbeston to work.

UNIROYAL FIBER & TEXTILE
350 Columbia Road
Winnsboro, S.C. 29180

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other countries, however, the subject is only now coming into the public view. In the long term the correct balance between the advantages and disadvantages of asbestos-based products for particular applications has yet to be found.

Our best wishes to all friends in the Asbestos Industry.

THE CAPE ASBESTOS COMPANY LTD.

R. H. DENT, Chairman

It is with pleasure that I am able once more to publish a brief message through the medium of ASBESTOS.

While the past year has seen some improvement in trading conditions in the United Kingdom, uncertainties still exist caused by inflation and labour unrest.

In the Asbestos Industry progress continues to be made in environmental control which has long been at an advanced level in progressive companies, and asbestos continues to fulfill its role as an indispensable constituent of many products where safety from fire, insulation and other similar qualities are needed.

May I send on behalf of the Cape Asbestos Company Ltd. my best wishes for Christmas and the New Year to everyone in the Industry.

CAREY-CANADIAN MINES, LTD.

R. J. MERRILL, President & General Manager

We are grateful for this opportunity to wish our friends in the Asbestos Industry a very happy and prosperous New Year.

Due mainly to the high level of housing starts, our '72 sales were at a record level. We look forward to repeating or even improving on this performance in '73.

CASSIAR ASBESTOS CORPORATION LTD.

J. D. CHRISTIAN, Chairman & President

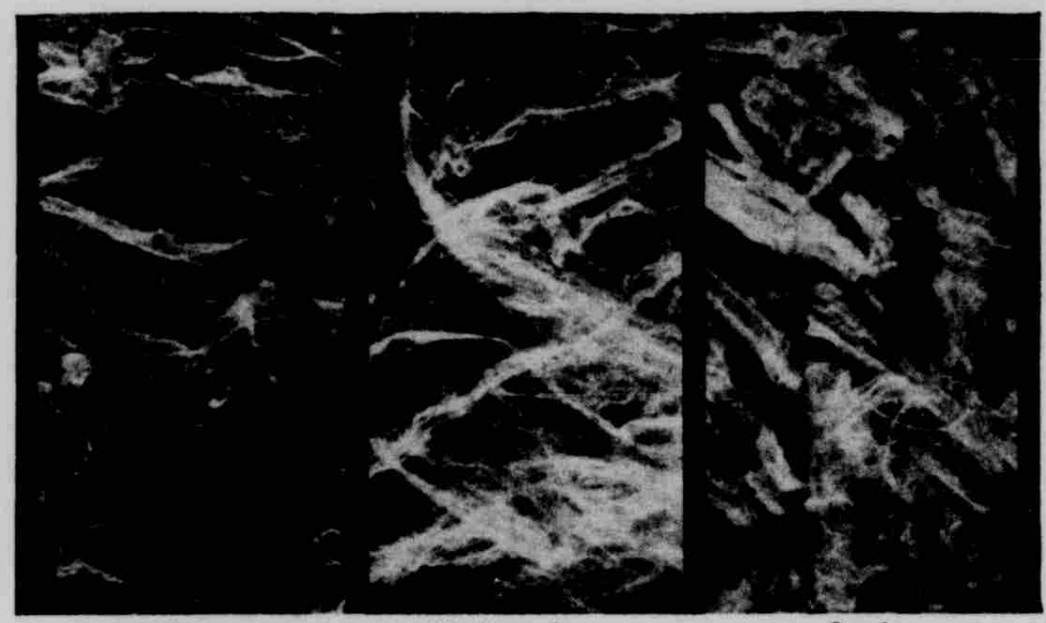
On behalf of the staffs of the Cassiar and Clinton Mines and of the Transport Division, I extend to our customers and mining friends in Canada, the United States and abroad, our best wishes for the Christmas Season and the New Year.

CERTAIN-TEED PRODUCTS CORPORATION

MALCOLM MEYER, Chairman

As 1972 draws to a close, it is gratifying to reflect upon the past year and the many outstanding achievements that have taken place, providing Certain-teed with a greater range of capabilities than ever before in its history. Among these was

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Well Open Medium Open Crudy

Are you using the right degree of fibre openness?

Openness of fibres can make a big difference in both processing and product properties. The right degree of fiberization, for example, can improve the filtration rate of paper stock, the consistency and texture of coatings, and the resin demand of molded brake linings.

Lake Asbestos produces 24 standard grades of fibre in three degrees of openness—Crudy, Medium Open, Well Open. Let our Technical Service Dept. recommend the best one for your process and product.

Write or call Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Or contact our agent nearest you.

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ARIZONA, NEW MEXICO
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A. J. Lynch & Co.—Los Angeles
ILLINOIS, INDIANA, WISCONSIN
Jensen-Souders Assoc., Inc.—Chicago
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CANADA
Federated Genco Ltd.—Montreal
CANADA
Federated Genco Ltd.—Toronto
COLOMBIA
Holanda Colombia, S.A.—Bogota
MEXICO
Asarco Mexicana, S.A.—Mexico City

ASARCO

LAKE ASBESTOS OF QUEBEC, LTD.

a subsidiary of American Smelting and Refining Company

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an agreement made early in the year with the French firm Saint-Gobain - Pont-à-Mousson and INA Corporation which gives us the patents and expansion capital to substantially increase our business related to the manufacturing of glass fiber insulation, strands, mats and composite materials containing glass fiber or foams.

Throughout the year we also acquired many new distribution outlets for our water and sewer products; launched a vigorous expansion program to increase our production of asphalt roofing, fiber glass, polyvinyl chloride pipe and polyethylene land drainage pipe; and made some fine additions to our executive ranks.

An event of major importance to the future of the company occurred in September when The Franklin Institute of Philadelphia and Certain-teed Products Corporation formed a new jointly-owned company called Franklin Key, Inc. The purpose of this unusual new company will be the commercial evaluation and exploitation of the exciting technology being developed by The Franklin Institute, an internationally-known scientific and educational organization.

In conclusion, I would like to wish all of our many friends in the Asbestos Industry a very merry Christmas and a happy and healthy New Year.

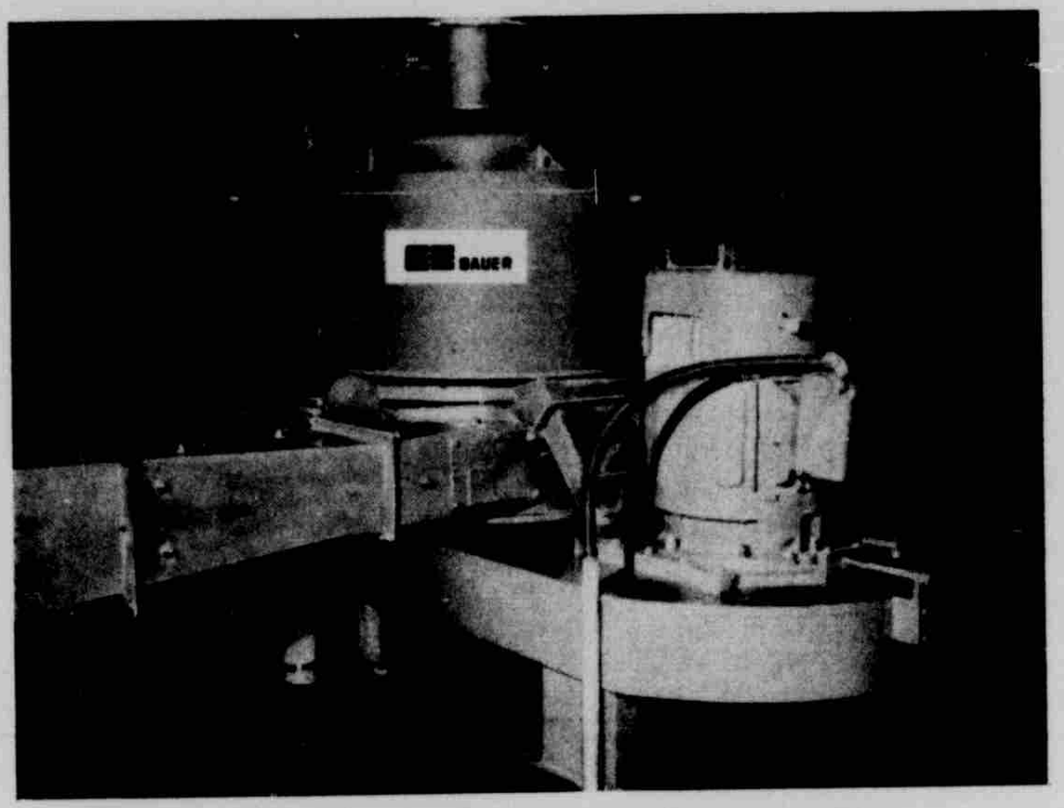
GAF CORPORATION
INDUSTRIAL PRODUCTS DIVISION
R. POWER FRASER, JR., Vice President

In 1972 GAF Corporation continued to fulfill the promise of its recent modernization, expansion and diversification programs and concluded the year with an expected growth in sales and earnings. An improving domestic economy, coupled with our own technological skills and productive capacity, give us good reason to anticipate further progress during the coming year.

GAF's Industrial Products Division, whose sales are closely aligned to the general economy, expects the trends indicated over the past twelve months to continue over the 1973 period. Increased sales to the automotive, building and filtration markets, in particular, should help offset rising costs and the problems of price controls.

As a major producer of asbestos, we are naturally concerned about newly-enacted state and federal regulations for asbestos emissions. Many of the regulations are restrictive, but not unattainable. They are a far cry from the original proposals and something we can live with over the next few years. In

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C-E Bauer puts the "class" in classifiers

What is routine for the C-E Bauer Centri-Sonic Classifier is usually impossible with conventional units. For example:

Removal of foreign particulate matter. Finished short fibre is "cleaned" of even extremely small quantities of rubber particles which come from conveyor belts, etc. Also . . . grit, unopened serpentine and spicules are effectively removed. Quality of end product is improved automatically!

Increasing production; protecting fibre length. On groups 4 and 5 fibres, opened fibre is quickly accepted. Likewise, unopened spicules are quickly rejected. Fast, efficient classification saves time, increases productivity, maintains high product quality and fibre length. Centri-Sonic Classifiers are available up to 4-5 tons per hour capacity. Ask for Bulletin G-8. The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc., Springfield, Ohio 45501 and Brantford, Ontario.

BAUER
COMBUSTION ENGINEERING, INC.

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fact, we have already begun compliance, having recently installed the most modern air-dust collectors for our mining operations.

Once again, we at GAF would like to extend to our friends in the Asbestos Industry our warmest wishes for a most joyous Holiday Season.

LAKE ASBESTOS OF QUEBEC, LTD.

MICHAEL J. MESSEL, President

Once again it's a pleasure to have the opportunity through ASBESTOS to convey our warmest best wishes for the New Year to our many friends and customers.

While 1972 was a good year for most of us in the asbestos-producing industry, the stringent regulations enacted by the U.S.A. are causing the asbestos-consuming industries in that country very serious and costly problems far beyond any hazards which asbestos workers may be exposed to with proper dust control measures. The regulatory bodies seem to have lost sight of how many lives asbestos saves, and uses for which there are no substitutes.

However, in spite of these and other serious economic problems which our Industry has to face, I look forward to 1973 with confidence that the Industry will progress and make its contribution both economically and technologically to the consumers' many uses throughout the world.

NATIONAL GYPSUM COMPANY
GOLD BOND BUILDING PRODUCTS DIVISION

JOHN P. HAYES, President

Once again it's a pleasure to extend Season's Greetings and to thank our customers, our employees and our worldwide distributors for making 1972 another good year. In reflecting on the past year, three observations immediately come to mind. First, it has been interesting to witness the strong demand for shorter fibers that has kept production at a high level . . . accompanied by a recent trend back to longer fibers. A good balance of this production leads to greater production efficiency . . . and this is very encouraging. Secondly, we have made good strides in making all of our plants better places in which to work. As a company, we are in favor of clean air . . . inside and outside the plants. We intend to comply with the requirements of the law . . . never knowingly endangering human life. Good progress is being made in this area! Thirdly, we wish to thank the Quebec Asbestos Mining Association and

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BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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the Asbestos Information Association/North America. We are encouraged by their efforts to overcome the negatives and misconceptions that have been published in regard to this Industry. Keep up the good work!

We anticipate a good year in 1973 and sincerely hope that it will be a happy and prosperous one for all of our friends in the Industry.

NICOLET INDUSTRIES, INC.

GUY GEORGE GABRIELSON, JR., President

Improvements in sales and earnings which were predicted for Nicolet one year ago were realized in 1972, although the increase in operating profits was largely offset by the cost of a severe flood at our Norristown, Pennsylvania, plant. We are generally optimistic about 1973.

In the short range, sales of asbestos products undoubtedly will be adversely affected to some degree by the expression of opinions that the use of asbestos constitutes a danger to human health. It will be important that the Asbestos Industry continue to support efforts to define these health hazards more accurately so that adequate, and not excessively costly, methods may be adopted for the control of asbestos dust, and so that unwarranted anxiety does not needlessly curtail the use of asbestos. In the longer range future, we believe that the benefits to be realized from the use of asbestos clearly will outweigh the inconvenience of using it safely.

We send greetings to our friends in the Asbestos Industry and wish them all prosperity in the New Year.

PACIFIC ASBESTOS CORPORATION

P. E. HOLMES, President

We are again pleased to send our best wishes to our friends in the Asbestos Industry. With the successes and trials of 1972 to give us strength and direction in 1973, we optimistically approach the New Year.

Pacific Asbestos Corporation wishes also to reaffirm its resolution to be preeminent in the asbestos fiber market, with consistent high quality and increased production sustaining that purpose.

We sincerely hope that the producers of asbestos fiber throughout the world will continue their efforts to maintain the stature of the Industry through sound marketing policies and optimum working conditions and environment; that they will strive independently and in concert to effect sound governing regulations, and that their voices will be heard above the

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WHY
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Because their unique method of heat setting the fibres practically eliminates any tendency for the felt to fold or crease on the machine.

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emotionalism and over-reaction of the day. Then, and only then, shall the future of the Asbestos Industry be bright.

H. K. PORTER COMPANY, INC.
THERMOID DIVISION

E. C. BRATT, General Manager-Asbestos Group

It is a pleasure once again to have the opportunity to send greetings and good wishes to our suppliers, customers and friends in this Holiday Season of 1972.

We wish for all good health and prosperity in 1973. Our Industry is strong and we are proud to be a part of it.

RAYBESTOS-MANHATTAN, INC.

WILLIAM S. SIMPSON, President

Season's Greetings to all in the Asbestos Industry from Raybestos-Manhattan. No year has ever posed more problems for our Industry than 1972 and yet I believe we will become stronger as a result of them.

Business prospects are excellent for the future as actually the new government requirements focus on the needs for asbestos to meet safety demands. Our own Novatex program goes beyond the regular asbestos textile market while meeting the 1976 standards.

Like our predecessors we are faced with continuing challenges requiring improved technology and we are confident that these will bring new uses for asbestos under safe operating conditions. Our interest will always be first for our employees and the general public and we will continue to cooperate with all agencies toward the improvement of the environment.

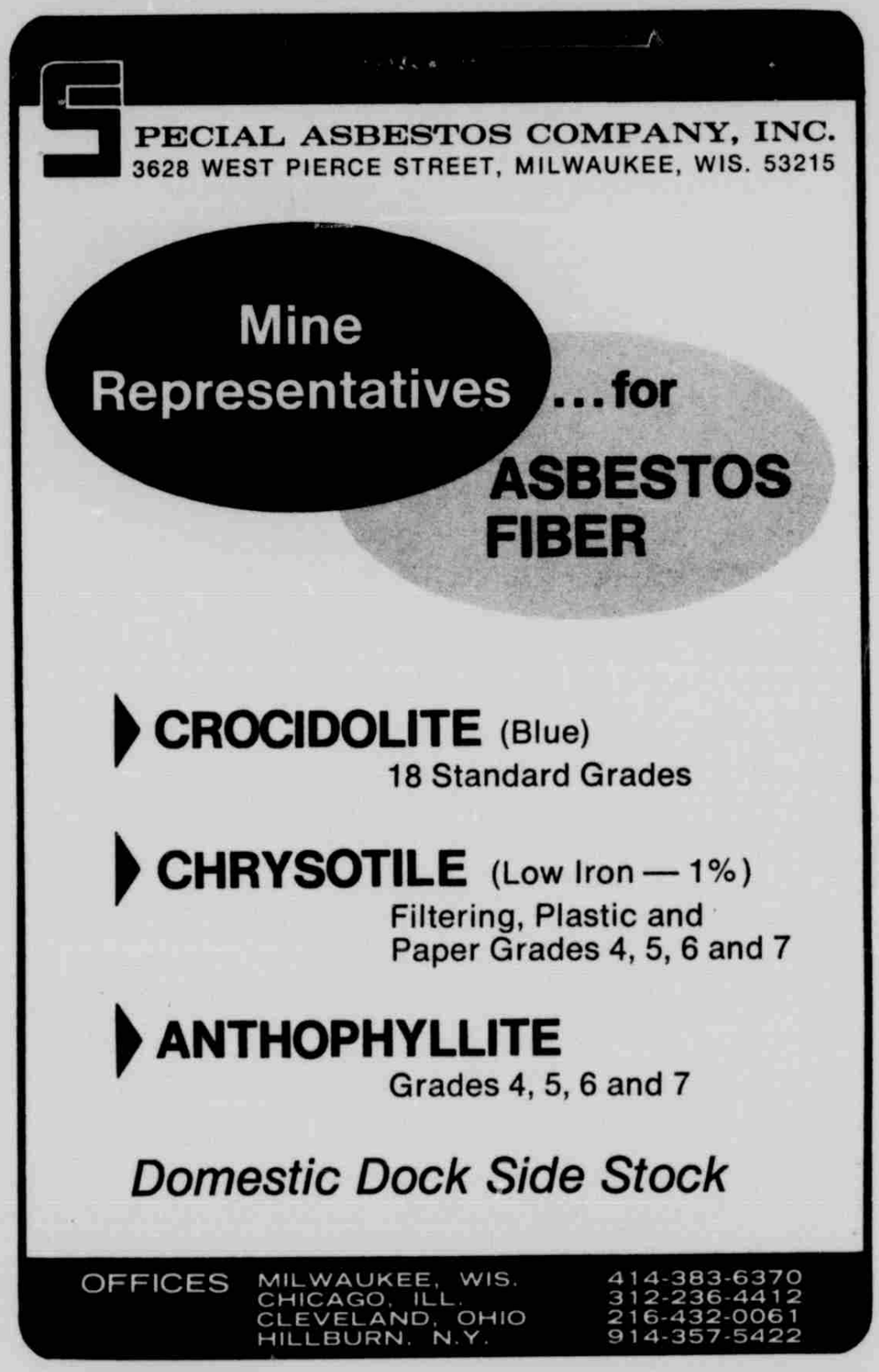
TURNER & NEWALL LTD.

R. M. BATEMAN, Chairman

Today's Asbestos Industry has an important duty to discharge. Entrusted with an essential natural resource, the basis of products which play many protective roles in an industrial society, it must see that society appreciates the benefits they confer. In particular it should do all it can to ensure that those concerned with the formulation of policy over occupational and environmental health are fully aware of them.

At the same time it has another duty, to see that its hygiene standards for dust emission from plants and processes conform to acceptable safe levels. The coming year will wit-

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ness moves by more countries to limit the use of asbestos. The Industry's task in discussing control policy with governments is first to persuade them that controls are wiser than prohibitions, and secondly that practicable controls do make work with asbestos safe.

The Industry must, therefore, so organize itself that important decisions on points of occupational hygiene are taken by government departments after full briefing on the facts. Nobody will do this for us—we must do it for ourselves. But for our opinion to carry weight we must be able to point to a good record, and see that our own house is in good order. Time and money spent on these tasks will not be wasted.

If the Asbestos Industry can surmount these difficulties, and I believe it will, the year ahead, for which the economic auspices are good, should be a successful one. We in Turner & Newall extend to all our friends our greetings and best wishes.

UNIROYAL FIBER AND TEXTILE

C. H. SIGLER, JR., Vice President & General Manager

In the year 1972, the asbestos textile industry faced a number of challenges from both commercial and legislative sources. But as has been its tradition, the Industry energetically confronted these issues, and our asbestos products proved once again their worth in the industrial market place.

The year ahead will prove to be no less challenging than that which has just passed. We are confident, however, that we possess the technical skills and productive capabilities to successfully accomplish our marketing objectives.

I take great pleasure then, in extending to our friends, suppliers and customers, our very best wishes for a successful and prosperous New Year.

U.S. ECONOMIC CENSUSES

United States firms are now receiving questionnaires from the U.S. Bureau of the Census for the 1972 Economic Censuses, being conducted to up-date statistics on manufacturing, mining, transportation, retail trade and other business activities. Manufacturers of asbestos products, gaskets and packing, and hard-surface floor coverings will receive Census Form MC-32K and are requested to complete the forms, as required under terms of an Act of Congress (13 U.S. Code), and return them by February 15th. [See announcement on opposite page]

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1972 economic censuses

Conducted in 1973 by the Bureau of the Census

BUSINESSMEN - MANUFACTURERS - CONSTRUCTION FIRMS

The Economic Censuses are **for** you
... **by** you ... **about** you

You need the results (The basic information about your industry comes from the Economic Censuses)

We (The Bureau of the Census) collect the data (to tell you about the latest developments in your industry)

The sooner **you** get answers to the Census Bureau
The sooner **you** can use the data to **your** advantage

Fill out your questionnaire **now**
Mail it to The Bureau of the Census **now**

It's **Your** Census ... It's **Your** Duty ...

(Deadline for Economic Census Forms - **Feb. 15, 1973**)

Confidential by Law — which protects the privacy of all information reported to the Census Bureau

U.S. DEPARTMENT OF COMMERCE
Social and Economic Statistics Administration
BUREAU OF THE CENSUS

***Printed by the publisher of ASBESTOS as a public service.**

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THE SCANNING ELECTRON MICROSCOPE

In the conventional electron microscope, a high energy beam of electrons, refracted and condensed by electromagnetic coils, passes through an object specimen and is brought to a sharp focus on a fluorescent viewing screen or photographic plate. In the same way that light is part transmitted and part absorbed by an object in ordinary light microscopy, so the electron beam density in the image plane provides a picture of the object. While overall magnification may be very high, for example up to X500,000, detail is confined to the outlines of the object.

The scanning electron microscope makes use of the low energy secondary electrons emitted by the impact of a scanning electron beam on the specimen. The secondary emission is drawn in curved paths to a scintillator and photomultiplier collector system to provide a visual display showing topographical detail of the specimen. The effect is similar to that in reflected light microscopy, but its is possible to achieve a depth of focus some 300 times greater than in light microscopy. The useful range of magnification is from X10 to X50,000, and the scanning electron microscope overlaps and indeed improves on the range of the light microscope.

The main advantage of the scanning electron microscope is in the direct examination of the surfaces of specimens. Sample presentation is much simplified since relatively large specimens about 12mm square and 3mm thick can be accommodated.

The scanning electron microscope has been used to study asbestos fibers, asbestos cement and asbestos-based insulation boards. Surface features such as fiber fractures can be discerned, as well as the forms of calcium silicate and other crystals in asbestos cement and insulation boards. Such studies are extremely useful in examining the forms of calcium silicate that occur in both cement and autoclaved lime silicia products, and also the disposition of asbestos fibers in various types of composite materials.

THE COVER

Chrysotile fiber in asbestos cement, magnification X1100. The bundle of fibers in the center of the picture is about 40 micron across at its widest part. Unlike Amosite fiber, the Chrysotile does not show a clean break but splays out on fracture. An illustration of a single Amosite Fiber in asbestos cement, magnified X1050, can be viewed on the front cover of the December 1972 issue of ASBESTOS. Both photographs and the above accompanying article were supplied by Cape Asbestos Fibres Ltd., a member of the Cape Asbestos Group of Companies.

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Single use disposable respirator



U.S. Bureau of Mines Approval 21B-129 for pneumoconiosis-producing and toxic dusts

Convenient, sanitary, economical! Big wrap-around filter resists clogging. Unique dual valve system prevents moisture build-up – permits effortless cool breathing.

Compact, lightweight, comfortable. Compatible with safety eyewear. Eliminates respirator cleaning and sanitary programs. For all dust producing operations.

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A textron COMPANY

MAJOR CHANGES AT R/M

In a move to improve customer service and marketing efficiency, Raybestos-Manhattan, Inc., recently formed the Packing Sales Division to enable the company to fully concentrate its selling strengths in the marketing opportunities that exist for its line of mechanical packings, gasket materials, sealing devices and silicone products.

The move follows the recently-announced decision by R/M to withdraw from the manufacture and sales of industrial hose, belting and selected other rubber product lines in the U.S. and Canada. Studies of all R/M's product lines revealed that the rubber business was not profitable to the firm and that the markets for rubber products made by R/M did not give evidence of developing into major growth areas for the company. Phase-out of the product lines has already begun and is planned for completion by June 15, 1973. About 1,300 employees will be affected by the closing of the Passaic, New Jersey, plant and the discontinuance of rubber operations at the plant in Peterborough, Ontario.

A new plant will be built in northeastern Pennsylvania for the manufacture of rubber covered rolls. The manufacture of friction materials products will be relocated from Passaic to a new facility to be constructed in a location more central to the markets for these products. A plant also will be built for R/M's bowling ball operations.

Raybestos-Manhattan forecasts that the discontinuance of the unprofitable products, the relocation of manufacturing operations and the concurrent introduction of new production techniques annually will add more than $1 million to earnings after taxes.

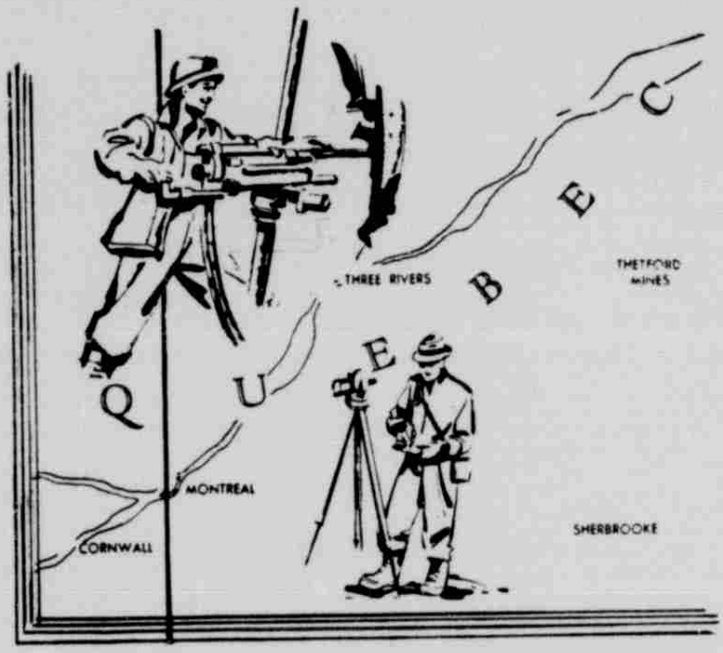
SMIDTH DISCONTINUES A/C BUSINESS

For more than forty years, F. L. Smidth & Co., A/S, Copenhagen, Denmark, has been a manufacturer of machinery and plants for the asbestos-cement industry. Recently, however, it has made the decision to terminate this segment of the business.

Smidth will continue to fulfill all contractual obligations previously entered into as well as to handle the sales of spare parts for machinery formerly supplied by the Asbestos Cement Department. In the future, Smidth will concentrate its efforts in the cement and metallurgical industries.

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BAG OPENING STATION FROM J-M

According to the Asbestos Information Association/North America, Johns-Manville Corporation has developed a completely automatic fiber bag opening station to protect workers from the hazards of asbestos dust.

Part of J-M's overall program of industrial hygiene and occupational safety, the development was announced by Edmund M. Fenner, Corporate Director, Environmental Control, for J-M. Acting as a spokesman for the asbestos industry at the 23rd Annual Governor's Industrial Safety Conference held recenlty at Olympia, Washington, Mr. Fenner spoke on "Activities of a Large Asbestos Producer in Minimizing Exposures to Asbestos Dust." He explained that Johns-Manville presently is testing the design of the station and that when it is fully developed, bags of raw asbestos fiber automatically will be cut open and disposed of, with the fiber being removed and introduced into the manufacturing process. All of this will take place without exposing any employee to significant levels of asbestos dust.

As part of his talk, Mr. Fenner illustrated, with slides, the dust control methods implemented by J-M at its mining, milling and manufacturing operations in the United States and Canada. He also discussed the special problems faced by the textile industry in eliminating asbestos dust from its manufacturing processes. He stressed the importance of regularly-scheduled industrial hygiene surveys and properly planned plant/equipment maintenance programs and said that to obtain a workplace free from the occupational hazard of asbestos, one must have properly designed processes and equipment that include effective dust control systems.

FABLE—FACT OR FICTION?

There once was a poor, struggling and entirely unnoticed veterinarian. He was in research, but nobody had read what few papers he had published and no one credited him with the genius he knew he possessed. He was very sad. . . . Then, one day, he had a true stroke of genius. He realized that as anthrax was a disease of cattle, there was a statistical relationship between that disease and all cattle products such as beef, milk, cheese and leather. He knew that statistical correlation alone was enough to excite many people. He wrote a paper giving great prominence to the few human deaths from anthrax and demonstrating a statistical correlation between the disease and cattle products. . . . He is now the world-famous head of a gigantic institute endeavoring to synthesize substitutes for the beef and milk no longer available in the U.S. He is very happy, but hungry. [Contributed by a reader]

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ASBESTOS

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Amosite

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OVER A QUARTER CENTURY OF EXPERIENCE

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MARKET CONDITIONS

GENERAL BUSINESS

Paced by a record rate of new automobile sales, general business was quite good in December and continuing improvement is projected for at least the first half of 1973.

Department store sales during the weeks before and after Christmas were exceptionally good and far exceeded the year-ago figures. Aside from overall statistics, which are not yet in for December, one of the most encouraging signs, so far as the health of business is concerned, has been the obvious increase in activity on the part of small manufacturing shops, particularly in the metalworking field. This, plus enlarging expenditures by larger industrial concerns, has led to significant improvement in sales of machine tools which have been booming over the past few months. With practically no increase in defense spending, this indicates a substantial increase in production of civilian goods, a very healthy sign.

It is now generally believed that wage and price controls will be continued indefinitely with possible revisions in both areas of control. Most likely modifications will come in the application of the present profit margin test to businesses.

Several large banks have again raised their prime interest rates. While this may act as a brake on industrial expansion, it should not change the upward trend in general business.

ASBESTOS FIBER

The continued high activity in the construction industry and the high level of automotive production in the U.S. and Canada reflect on the demand for asbestos fiber, particularly in the Group 7 categories. At the time of this writing, 1972 shipments of asbestos from Canada are exceeding the 1971 levels but the increases principally are in the short fibers.

Demand for asbestos fiber in the International market has improved over the earlier part of the year, particularly in Japan and Europe. The economic disruptions of 1971 appear to have been absorbed to some degree and the pace of manufacturing activity has increased.

It is apparent at this stage that asbestos fiber shipments in 1972 will exceed the total of 1971 and that the same level of demand should continue into the first quarter of 1973.

Have you ordered your copy of

"The Asbestos Factbook"?

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CONSTRUCTION NEWS

OCTOBER 1972 construction contracts were valued 23% above the total for the previous October and amounted to $8,225,380,000: $2,383,566,000 for nonresidential building; $4,297,673,000 for residential units; $1,544,141,000 for nonbuilding work.

NOVEMBER 1972 sustained the strong flow of new contracts during the past several months as the seasonally-adjusted Dodge Index advanced to 177 (1967=100), 4% over October's 171.

The value of November contracts for future construction work of all kinds was $7,247,859,000, 13% higher than in November 1971. In most respects, the data showed much the same pattern as in October—continued strength in housing and improvement in nonresidential building.

Nonresidential building contracts totaled $2,183,539,000, 3% greater than in the prior November. The figures showed good gains in commercial and industrial projects.

Residential contracts were valued at $3,662,796,000, up 23% from the same month a year ago. Another 180,000 new housing units were added in November, bringing the output of new dwellings for the first eleven months of 1972 well above the two-million mark.

Nonbuilding construction contracts reached $1,401,524,000, a 6% gain over the previous November. All of the improvement was confined to a single category, streets and highways.

Cumulative construction contract value for the first eleven months of 1972 totaled $85,029,325,000: Nonresidential, $24,935,228,000, up 5%; Residential, $42,296,174,000, up 33%; and Nonbuilding, $17,797,923,000, down 4%. The eleven-month total was 15% ahead of the same period in 1971. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

SEPTEMBER 1972 motor vehicle factory sales from plants in the *United States* totaled 1,049,746 (passenger cars—859,299; trucks and buses—190,447). OCTOBER 1972 sales from U.S. plants totaled 1,134,990 (passenger cars—895,711; trucks and buses—239,279). The cumulative total for the First Ten Months of 1972 was 9,247,134 compared with 8,888,378 for the same period in 1971 . . . Motor vehicle factory sales from plants in *Canada* totaled 114,785 in September and 138,168 in October. The cumulative total from January-October 1972 was 1,197,142 against 1,129,008 for the like 1971 period. [Motor Vehicle Manufacturers Association of the U.S., Inc., Detroit]

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We welcome the challenge

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Above all, our service, reliability and repeatability will always be maintained.

L'espansione della Comunità Economica Europea rappresenta una occasione per poter incrementare ancora di più la nostra attività.
I vincoli che uniranno il nostro Paese agli altri membri della Comunitá favoriranno l'attuazione di feltri migliori di quanto non lo siano ora per l'industria europea del fibrocimento.
Ma sopratutto rimarranno inalterate la nostra assistenza, la nostra serietà e le nostre immutabili prestazioni.

Die Erweiterung der EWG bietet uns eine ausgezeichnete Gelegenheit zur Weiterentwicklung unserer Leistungen.
Eine engere Verbindung zu unseren Geschäftspartnern legt uns zur Entwicklung noch besserer Filze für die Europäischen Asbest-Zementhersteller an.
Vor allem behalten wir aber weiterhin unsere Leistungen unsere Zuverlässigkeit und Reproduzierbarkeit bei.

L'élargissement de la Communauté Economique Européenne est pour nous une occasion de première importance pour développer davantage nos services.
Des liaisons plus étroites avec nos nouveaux partenaires stimuleront le développement de cartons encore meilleurs pour les industries européennes du fibrociment.
Nous maintiendrons par-dessus tout notre service, notre qualité et la continuité de nos produits.

SCAPA TEXTILES LTD

Felts for the Asbestos-Cement Industry.

PRODUCTION—IMPORTS—EXPORTS

AUSTRALIA

Production of Chrysotile asbestos in the *Year 1971* totaled 990 short tons (933 tons from New South Wales and 57 tons from Western Australia) . . . *Imports* reached 72,733 tons, valued at $10,270,000 (Chrysotile, 47,655 tons, $6,895,000; Amosite, 11,430 tons, $1,676,000; Other Types, 13,688 tons, $1,699,000) . . . *Exports* of All Types and Grades amounted to 38 tons, valued at $5,000 . . . Comparable totals for the Year 1970 are: 815 tons produced; 75,624 tons imported at a value of $10,279,000; and 485 tons exported, valued at $114,000. [Bureau of Mineral Resources, Geology and Geophysics, Canberra]

CANADA

Producers' shipments of asbestos during *August 1972* totaled 153,420 short tons (119,340 tons from plants in Quebec and 34,080 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). Shipments in *September 1972* totaled 138,199 tons (117,275 tons from Quebec) and in *October 1972* amounted to 167,239 tons (137,131 tons from Quebec) . . . The *cumulative total* of producers' shipments for the *First Ten Months of 1972* was 1,387,534 tons (1,117,839 tons from Quebec plants and 269,695 tons from plants in the other four Provinces). The total for the same period in 1971 was 1,298,274 tons. [Statistics Canada, Ottawa]

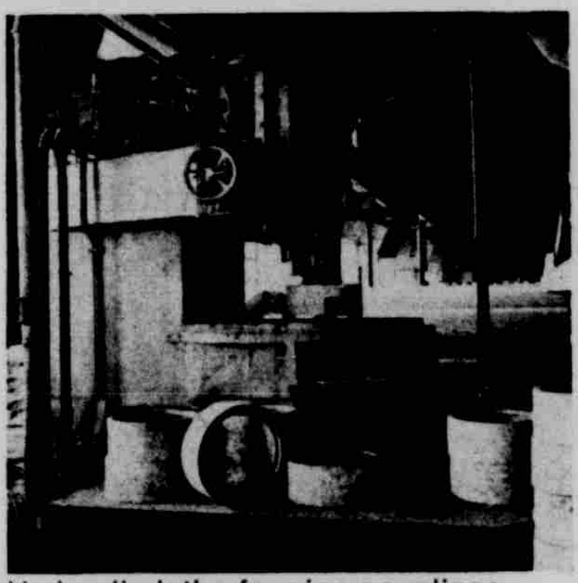
Production of vinyl-asbestos floor tile during the *First Nine Months of 1972* totaled 143,444,421 square feet (66,099 short tons) against *shipments* of 129,454,527 square feet (61,501 tons). Comparable figures for the previous year were 129,028,183 square feet (60,223 tons) produced and 126,411,766 square feet (59,450 tons) shipped. [Statistics Canada, Ottawa]

REPUBLIC OF SOUTH AFRICA

Production of asbestos for the *First Half of 1972* totaled 156,969 metric tons: 51,686 tons of Amosite, 27,825 tons of Chrysotile, 74,361 tons of Cape Blue, and 3,097 tons of Transvaal Blue. Production in the first half of 1971 was 157,917 tons . . . *Local Sales* reached 11,805 tons, valued at R1,202,646, compared with 17,724 tons, valued at R1,815,735, during the first six months of the prior year. The breakdown for 1972 is: Amosite, 1,294 tons, R143,028; Chrysotile, 6,916 tons, R566,079; Cape Blue, 3,423 tons, R483,806; Transvaal Blue, 172 tons, R9,733 . . . *Exports* of asbestos for the first half of 1972 totaled 115,215 tons, valued at R16,371,285, broken down as follows: Amosite, 42,584 tons, R5,851,164; Chrysotile, 16,272 tons, R1,435,854; Cape Blue, 53,813 tons, R8,621,102; Transvaal Blue, 2,546 tons, R463,165. Exports for the same period in 1971 were 124,360 tons, valued at R16,191,380. [Department of Mines, Johannesburg]

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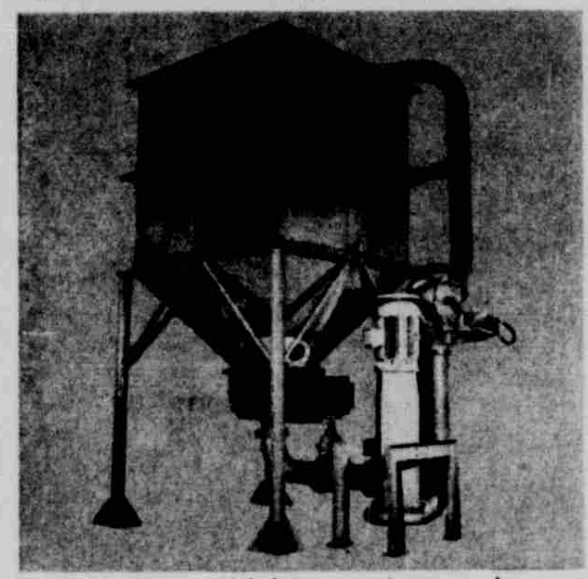
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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**AUGUST 1972**	
Amosite, South Africa	s.tons	1,107	$ 194,105
Crocidolite (Blue), South Africa	s.tons	881	182,188
Chrysotile, Crude, South Africa	s.tons	873	190,613
Swaziland	s.tons	40	21,200
Chrysotile, Spinning Fibers, Canada	s.tons	804	438,239
South Africa	s.tons	7	2,991
Chrysotile, Other, Canada	s.tons	54,380	6,528,404
Other Crudes & Fibers, Canada	s.tons	270	15,991
Finland	s.tons	408	21,414
South Africa	s.tons	140	8,338
		58,910	$ 7,603,483
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	178,423	$ 177,546
A-C pipes, tubes and fittings	Lb	1,972,322	113,379
A-C articles, other	Lb	2,021,275	351,412
Asbestos-articles, other	Lb	..	125,740
			$ 768,077

Unmanufactured Asbestos:		**JANUARY-AUGUST 1972**	
Amosite, Mozambique	s.tons	68	$ 11,829
South Africa	s.tons	5,752	1,082,576
Crocidolite (Blue), Bolivia	s.tons	29	2,966
South Africa	s.tons	3,401	754,919
Chrysotile, Crude, Canada	s.tons	2	2,100
Rhodesia	s.tons	105	52,800
South Africa	s.tons	1,809	430,670
Swaziland	s.tons	40	21,200
Chrysotile, Spinning Fibers, Canada	s.tons	8,201	3,882,845
South Africa	s.tons	7	2,991
Yugoslavia	s.tons	843	11,503
Chrysotile, Other, Canada	s.tons	477,910	53,967,481
Other Crudes & Fibers, Canada	s.tons	2,204	265,283
Finland	s.tons	1,557	96,665
Greece	s.tons	6	1,361
Italy	s.tons	1	1,111
Mozambique	s.tons	597	117,759
South Africa	s.tons	831	127,310
Switzerland	s.tons	4	1,538
Yugoslavia	s.tons	843	42,611
		504,210	$60,877,518
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	2,630,330	$ 2,406,644
A-C pipes, tubes and fittings	Lb	28,791,201	1,451,835
AC-articles, other	Lb	13,179,573	2,139,726
Asbestos articles, other		..	1,575,277
			$ 7,573,482

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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

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It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

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Gold Bond
ASBESTOS FIBRES

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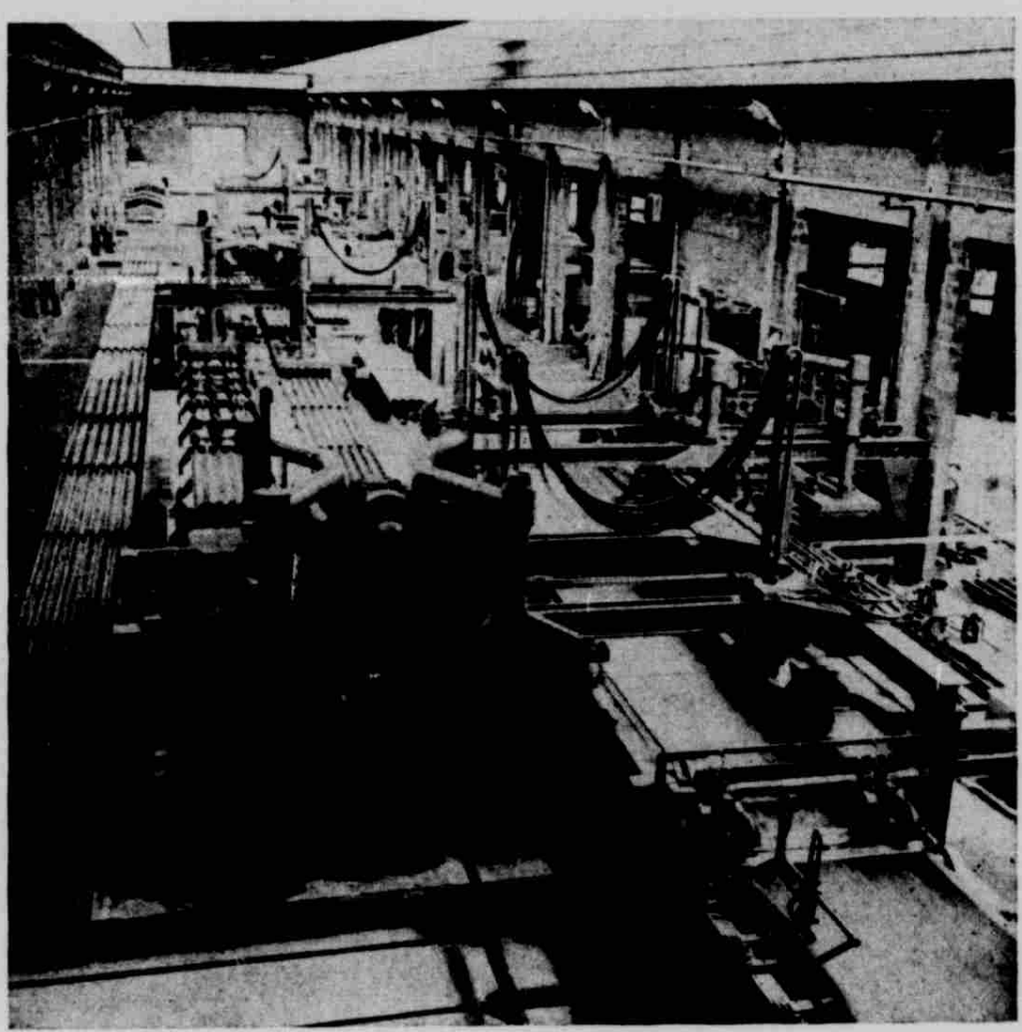
EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**AUGUST 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,251	$ 251,142
Waste and refuse	s.tons	5,616	687,704
		6,867	$ 938,846
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,761,354	$ 258,754
Other a-c or fiber-cement articles	Lb	5,151,179	417,275
Gaskets	Lb	54,000	72,421
Packing	Lb	361,770	601,333
Heat or sound insulation		..	167,468
Textiles and yarns	Lb	1,006,420	395,783
Protective clothing		..	14,927
Mfrs. other than friction materials		..	553,587
Cl. facings and linings for auto. use	No	141,737	69,332
Other clutch facings and linings	No	46,428	25,779
Brake linings for automative use	Lb	583,201	424,078
Other brake linings	Lb	112,616	99,194
			$ 3,099,931
Unmanufactured Asbestos:		**JANUARY-AUGUST 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	15,499	$ 2,554,576
Waste and refuse	s.tons	20,384	2,612,477
		35,883	$ 5,167,053
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	14,491,346	$ 1,616,872
Other a-c or fiber-cement articles	Lb	10,998,820	1,150,096
Gaskets	Lb	378,641	701,106
Packing	Lb	3,015,354	4,371,342
Heat or sound insulation		..	1,179,050
Textiles and yarns	Lb	10,667,298	2,663,980
Protective clothing		..	124,852
Mfrs. other than friction materials		..	2,873,225
Cl. facings and linings for auto. use	No	1,358,224	1,072,656
Other clutch facings and linings	No	636,808	316,071
Brake linings for automotive use	Lb	4,404,742	3,142,304
Other brake linings	Lb	1,787,102	1,453,216
			$20,664,770

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PLANTS AND MACHINERY FOR THE PRODUCTION OF ASBESTOS-CEMENT SHEETS



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EXPORTS FROM CANADA

Figures from Statistics Canada

AUGUST 1972

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	633	15,593	13,075
Eastern Europe	..	115	2,695	402
Middle East	..	32	835	1,507
Africa	..	..	1,147	335
Asia	..	152	7,402	8,835
Oceania	..	..	6,138	389
So. & Cen. America & Antilles	..	138	10,323	3,074
United States	1	1,412	17,902	42,376
	1	2,482	62,035	69,993

The total amount of unmanufactured asbestos exported in *August 1972* was 134,511 short tons, valued at $19,246,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 65,000
Asbestos-cement building materials	154,000
Other basic products	213,000
	$ 432,000

JANUARY-AUGUST 1972

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	17	6,543	147,546	86,855
Eastern Europe	..	165	17,912	798
Middle East	..	72	12,860	4,407
Africa	..	..	6,162	1,681
Asia	5	2,146	52,312	66,849
Oceania	..	38	31,831	6,932
So. & Cen. America & Antilles	..	532	48,206	18,699
United States	16	10,342	135,540	344,078
	38	19,838	452,369	530,299

The total amount of unmanufactured asbestos exported in *January-August 1972* was 1,002,544 short tons, valued at $143,401,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 501,000
Asbestos-cement building materials	1,470,000
Other basic products	1,656,000
	$3,627,000

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For every AC product and every machine there's a specific Albany Felt to help you make more money.

Albany's pacesetter felts help you make more profit.

SHEET MACHINES:

Specially tailored Albany Felts control drainage better and can be designed to provide any required finish. Production is increased. And they last longer.

100% Synthetic Needled Asbestos Cement Felts of the latest Albany-design work better, longer, and more profitably for you. Ask your Albany Felt Representative to prove it.

ALBANY FELT COMPANY

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LATEST ASBESTOS PRICES

ARIZONA — Per Ton of 2000 Lbs, F.O.B. Globe, Arizona

[As of August 1, 1968] — U.S. Dollars

No. 1 Crude	$1410.00—$1650.00
No. 2 Crude	700.00— 950.00
AAA	.. 800.00
Group No. 3—Nonferrous Filtering-Plastic	425.00— 700.00
Group No. 4—Nonferrous Filtering-Plastic	400.00— 500.00
Group No. 5—Nonferrous Filtering-Plastic	385.00— 425.00
Group No. 6—Nonferrous Plastic	.. 250.00
Group No. 7—White Shorts	65.00— 90.00

CANADA — Per Ton of 2000 Lbs., F.O.B. Mine

[As of July 1, 1971] — Canadian Currency

No. 1 Crude	$ .. $1615.00
No. 2 Crude	.. 875.00
No. 3—Spinning Fiber	412.00— 675.00
No. 4—Asbestos-Cement Fiber	227.00— 383.00
No. 5—Paper Fiber	164.00— 195.00
No. 6—Paper and Shingle Fiber	.. 120.00
No. 7—Shorts	52.00— 100.00

CASSIAR — Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.

[As of January 1, 1973] — Canadian Currency

Cassiar Mine

C-1	$1522.00
AAA Grade—Nonferrous Spinning Fiber/Canadian Gp 3	895.00
AA Grade—Nonferrous Spinning Fiber/Canadian Gp 3	711.00
A Grade—Nonferrous Spinning Fiber/Canadian Gp 3	541.00
AC Grade—Nonferrous Spinning Fiber/Canadian Gp 3	388.00
AK Grade—Asbestos-Cement Fiber/Canadian Group 4	276.00
AS Grade—Asbestos-Cement Fiber/Canadian Group 4	240.00
AX Grade—Asbestos-Cement Fiber/Canadian Group 5	219.00
AY Grade—Asbestos-Cement Fiber/Canadian Group 5	155.00
AZ Grade—Asbestos-Cement Fiber/Canadian Group 6	126.00
Talus	233.00

Clinton Mine

CP Grade—Asbestos-Cement Fiber/Canadian Group 4	$ 261.00
CT Grade—Asbestos-Cement Fiber/Canadian Group 4	235.00
CY Grade—Asbestos-Cement Fiber/Canadian Group 5	155.00
CZ Grade—Asbestos-Cement Fiber/Canadian Group 6	126.00

VERMONT — Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont

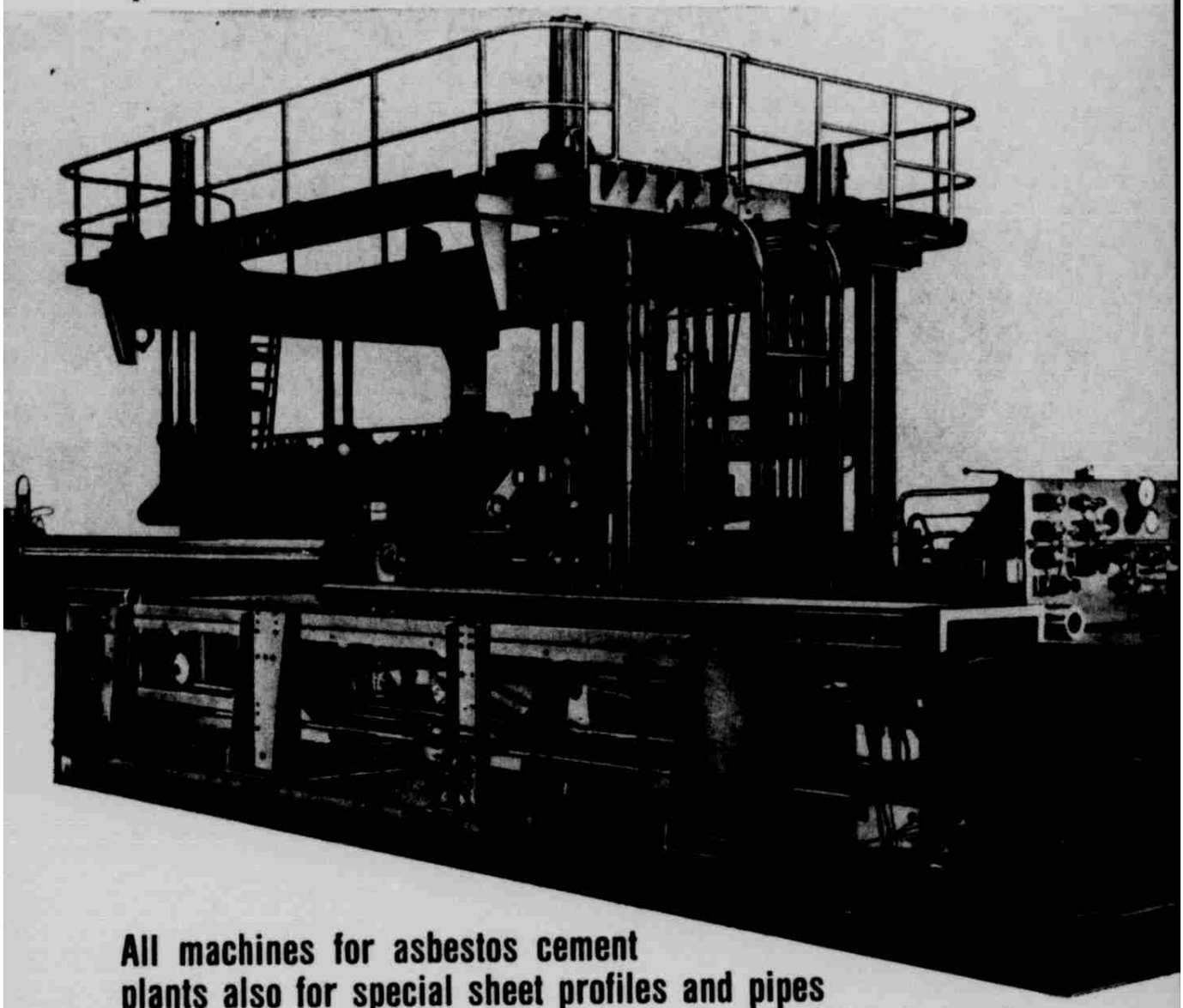
[As of January 3, 1972] — U.S. Dollars

Grades 3T and 3Z—Fiber	$ 400.00—$ 428.00
Grades 4A thru 4T—Fiber	218.00— 371.00
Grades 5D thru 5R—Fiber	157.50— 185.00
Grade 6D—Waste	.. 114.00
Grades 7D thru 7T—Shorts	48.00— 95.00
Grade 7TF—Floats (Shorts)	.. 43.50
Grade 8S—Shorts	.. 30.00
Hooker No. 1—packaged in 50-lb. Woven Poly Bags	.. 436.00
Hooker No. 2—packaged in 100-lb. Woven Poly Bags	.. 218.00

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ASBESTOS IN 1971

Shipments of asbestos from U.S. producers reached a record high in 1971, increasing 4% in quantity and 14% in value. The abatement of the tight money market and easing of interest rates aided the home building industry and increased the demand for asbestos. U.S. production (sales) of asbestos in 1971 totaled 130,882 short tons, valued at $12,174,000. California produced 87,144 tons or 67% of the total 1971 production (10% above the prior year), followed in order by Vermont, Arizona and North Carolina. The 10% increase was led by Pacific Asbestos Corporation's mine in Calaveras County. The largest producing County was Fresno with Coalinga Asbestos Company and Atlas Asbestos Corporation. Union Carbide Corporation had significant production in San Benito County. The State's increased production realized a $1,444,190 increase in value. The GAF Corporation mine in Orleans County, Vermont, showed an apparent production decrease of 5% without an attendant loss in value. With only Jaquays Mining Corporation's mine in Gila County operating in 1971, Arizona production decreased 11%. With a new production site in Transylvania County along with its two mines in Yancey and Jackson Counties, production in North Carolina by Powhatan Mining Company increased 11%.

U.S. exports and reexports of unmanufactured asbestos amounted to 53,678 tons, valued at $7,963,000. The value of exports of asbestos products manufactured in the U.S. was $31,419,000, 24% over that of 1970. Five of the nearly 100 countries buying these products accounted for better than half of foreign sales: 35% to Canada, 9% to West Germany, 4% to the United Kingdom, 3% to Venezuela, and 3% to Australia.

U.S. imports for consumption of unmanufactured asbestos totaled 681,367 tons (83% of its apparent needs), valued at $80,090,000, an increase over 1970 of 5% in quantity and 7% in dollar value. Apparent U.S. consumption of asbestos was 758,571 tons, as measured by quantity produced, plus imports, minus exports. Canada provided 95% of the imports, the Republic of South Africa provided 4%, and seven other countries supplied the remainder.

Of the literally thousands of direct and indirect uses for asbestos, about 70% of world production of asbestos is consumed in the manufacture of asbestos-cement building materials and pipe. According to a survey done for a member of the Asbestos Information Association/North America, the U.S. consumption picture in 1971 differs somewhat, i.e.: 25% in asbestos-cement pipe and building products, 18% in floor tile, 14% in felts and papers, 10% in friction materials, 3% in textiles, 3% in packing and gaskets, 2% in sprayed insulation, and 25% in miscellaneous products.

In 1971, the General Services Administration reduced Government stockpile inventories by disposing of 2,724 tons of Amosite, 5,875 tons of Crocidolite and 1,611 tons of Chrysotile. Inventories as of December 31, 1971, (with stockpile objectives enclosed in parentheses) are: 59,638 tons of Amosite (18,400); 12,893 tons of Chrysotile (13,700); 1,950 tons of Subspecification Chrysotile (zero); and 36,922 tons of Crocidolite (zero).

The inclusion of asbestos on the list of hazardous air pollu-

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tants is beginning to affect the Industry. There have been no serious losses of markets as yet, except for talc that contains Tremolite, but new markets are slow in opening up. In 1971, asbestos workers in mines and mills were protected under the Metal and Nonmetal Health and Safety Act administered by the U.S. Bureau of Mines. Bureau inspectors were changing over from measuring all particulate matter using a particle impingement method and reporting in million particles per cubic foot, to using a membrane filter and microscopy method and reporting in fibers longer than 5 microns per milliliter. The Labor Department's Office of Safety and Health Administration (OSHA) is using the membrane filter method to check on the working conditions of the people using asbestos in product manufacture and applications. EPA stated there is no suitable technique available for measuring asbestos emissions in ambient air. It was proposing regulations that would give it jurisdiction over any possible emission source to the ambient air and in lieu of specific standards, it proposed the establishment of restrictions on operating techniques.

Quoted prices for Quebec asbestos were increased 4-6% effective July 1, 1971. The increases were not abnormal in an inflationary economy. Private negotiated sales are the African asbestos producers' modus operandi. As this rules out market quotations, the following are averages, regardless of grade, of the values of South African imports calculated from U.S. Department of Commerce data: $164.00 per ton of Amosite, $212.00 per ton of Crocidolite, and $120.00 per ton of Chrysotile.

Excluding insufficient data from Czechoslovakia, North Korea and Romania, apparent world production of asbestos reached a preliminary total of 3,947,996 tons (3,846,475 tons in 1970 and 3,599,123 tons in 1969). World consumption, viewed on an annual basis, can be misleading. Temporary factors such as a world monetary realignment or the impending expansion of the European Common Market can give data that are in apparent disagreement with well-established trends. The year 1971 is a perfect example of this. The world's largest producer and exporter, Canada, had a 2% decline in shipments at a time when world demand and capacity were nearing equality. Analysis of world production over the last 20 years shows an average annual growth rate of a little over 2%. Projecting this rate to the year 2000 would call for a cumulative production of 163 million tons, or approximately half of the known reserves. An average growth rate of 6% (it is now about 5%) would exhaust the known reserves by the year 2000. The Asbestos Industry is at or very near the point where supply and demand will reveal shortages that may be only apparent because supply distribution across the ideological political boundaries or United Nations embargo lines is still difficult. It seems evident that, in spite of a large increase in exploration, the opening of several new major mines and the renovation of others, there will be at least a few years in the 1970's when demand will exceed supply.

[Excerpts from U.S. Bureau of Mines 1971 Minerals Yearbook, chapter on "Asbestos" by Robert A. Clifton, Chemist, Division of Nonmetallic Minerals; all tonnage figures are in short tons]

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BIRTHDAY GREETINGS to . . .

C. Fred Workman, Vice President-Marketing, Nicolet Industries, Inc., Ambler, Pennsylvania, February 9.

Clark H. Harrison, First Vice President, The Clark Asbestos Company, Cleveland, Ohio, February 10.

R. R. Moalli, General Manager-R/M International, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, February 10.

Stanley E. Price, Vice President-Marketing, Piping & Plastics Industries Division, & President of Certain-teed Badger, Certain-teed Products Corporation, Valley Forge, Pennsylvania, February 10.

John K. Locher, Assistant Secretary, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, February 11.

R. A. Wells, Joint Managing Director, TBA Industrial Products Ltd., Spotland, Rochdale, England, February 11.

S. Gibbs, Joint Managing Director, Turner & Newall Ltd., Manchester, Lancashire, England, February 12.

James D. Moran, President & Chief Executive Officer, The Flintkote Company, White Plains, New York, February 12.

Herbert L. Levine, President, Asbestos Products Manufacturing Company, Newark, New Jersey, February 13.

A. B. Marchant, Vice President-Employee Relations, Johns-Manville Corporation, Denver, Colorado, February 13.

David F. Calliari, Vice President-Finance & Treasurer, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, February 15.

Lawrence E. Moody, Works Manager-Charlotte Works, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, February 16.

Donald E. Trimble, Treasurer, The Flintkote Company, White Plains, New York, February 18.

E. R. E. Carter, Chairman of the Board & President, Advocate Mines Ltd., Toronto, Ontario, February 20.

Ronald P. Armonath, Marketing Research Manager, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, February 21.

Charles M. Fenton, Managing Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, February 24.

W. H. Foster, Manager-Engineering, Asbestos Corporation Ltd., Thetford Mines, Quebec, February 27.

R. J. Frater, Managing Director, Kismet Ltd., Fenlake Works, Bedford, England, February 27.

W. P. Gibbons, Vice President & Director for Divisional and Corporate Advertising, Johns-Manville Corporation, Denver, Colorado, February 27.

Jack H. Matthews, General Production Manager, Wunderlich Ltd., Sydney, N.S.W., Australia, February 28.

James J. Polizzi, Vice President, North American Asbestos Corporation, Chicago, Illinois, February 28.

John L. Rainey, President, Amatex Corporation, Norristown, Pennsylvania, March 1.

George W. Behnke, President, Simplicity Engineering Company, Durand, Michigan, March 3.

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Robert S. Coleman, Vice President, National Asbestos Mines Ltd., Thetford Mines, Quebec, March 3.
William J. W. Smith, Director, Vice President & Sales Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, March 3.
James E. Sullivan, Senior Vice President, Pacor, Inc., Philadelphia, Pennsylvania, March 3.
James M. Cloney, Group Vice President-Business Systems, International Operations, GAF Corporation, New York City, March 5.
Kempton Dunn, Vice Chairman, Illinois Central Industries, Inc., Chicago, Illinois, March 5.
B. G. Hill, Chairman & Managing Director, Ferodo Ltd., Chapel-en-le-Frith, England, March 5.
A. E. Murray, Managing Director, Cape Insulation (Ireland) Ltd., Dublin, Ireland, March 6.
William G. Brinker, President, The Clark Asbestos Company, Cleveland, Ohio, March 8.
Darwin D. Tucker, President & Chief Operating Officer, National Gypsum Company, Buffalo, New York, March 8.
D. W. Hills, Chairman & Joint Managing Director, TBA Industrial Products Ltd., Spotland, Rochdale, England, March 9.
Paul C. Nikitovich, Vice President, J-M International, & General Manager for Latin America & Far East, International Division, Johns-Manville Corporation, Denver, Colorado, March 9.
Melville P. Carson, Executive Vice President & Director, Asbestos Corporation Ltd., Montreal, Quebec, March 10.
Haydn S. Wood, Director, Pacor, Inc., Philadelphia, Pennsylvania, March 11.

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ASBESTOS STOCK QUOTATIONS

Close—December 19, 1972

Abitibi Asbestos	*$2.00	G&W (pfd 3.50)	143½
Advocate Mines	*$1.40	G&W (pfd 3.87)	65⅝
Allied Mining	*$3.15	G&W (pfd 5.75)	75¾
Asarco	20⅛	Illinois Central	27⅛
Armstrong Cork	33⅝	Ill. Central (pfd 3.50)	53¼
Armst Cork (pfd 3.75)	57	Jim Walter Corporation	30⅝
Asbestos Corporation	*$16.00	Jim Walter (pfd 1.60)	35½
Bendix	49⅝	Jim Walter (pfd 1).	13⅛
Bendix (pfd 3)	74½	Johns-Manville	31⅝
Carlisle	23¾	Kennecott Copper	22½
Cassiar Asbestos	*$11.00	Maremont	49¼
Cerro Corporation	15	McAdam Mining	*$.40
Certain-teed Products	22⅜	National Gypsum	17⅜
C-teed (pfd .90)	43¾	Pathfinder	*$.75
Charter Consolidated	**229	Porter (pfd 5.50)	82½
Conwest	*$5.20	Raybestos-Manhattan	28¾
Flintkote	24½	Rio Algom	*$18.75
F-kote (pfd-A 4.50)	72½	Royal Industries	11½
F-kote (pfd-B 2.25)	36	Unarco	10⅝
GAF Corporation	20½	Union Carbide	50
GAF (pfd 1.20)	28	Uniroyal	15
Garlock	19¼	Uniroyal (pfd 8)	103
Grace	26⅝	United Asbestos	3-7/16
Gulf & Western	34½	Woodsreef Mines	*$1.01

*Canadian Currency
**London—in pence
Sources: The Wall Street Journal & The Northern Miner

ASTM REVISED ASBESTOS STANDARDS

C 220 72—Specification for Flat Asbestos-Cement Sheets. [Published November 1972; Ref. Part 12, 1973; $1.25]

C 460 72—Definitions of Terms Relating to Asbestos-Cement and Related Products. [Published November 1972; Ref. Part 12, 1973; $1.25]

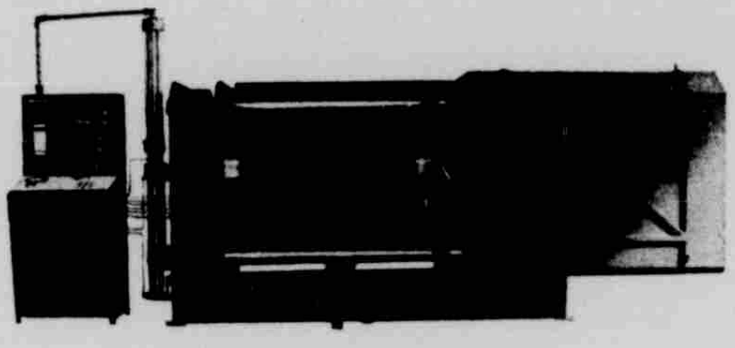
C 551 72—Specification for Asbestos-Cement Fiberboard Insulating Panels. [Published November 1972; Ref. Part 12, 1973; $1.25]

D 1118 72—Method of Test for Magnetic Rating of Asbestos Used for Electrical Purposes. [Published October 1972; Ref. Part 24, 1972; $1.25]

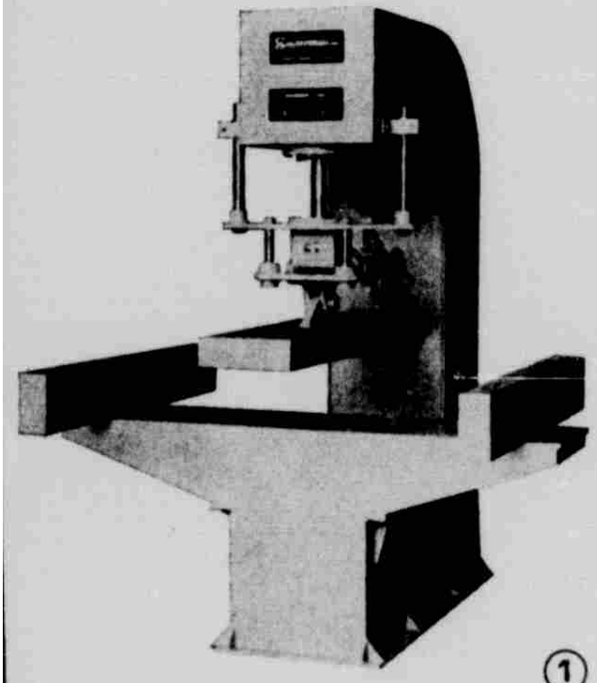
D 1918 72—Method of Test for Asbestos Content of Asbestos Textile Materials. [Published October 1972; Ref. Part 25, 1972; $1.25]

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① Bending and crushing test press for sheet and pipes



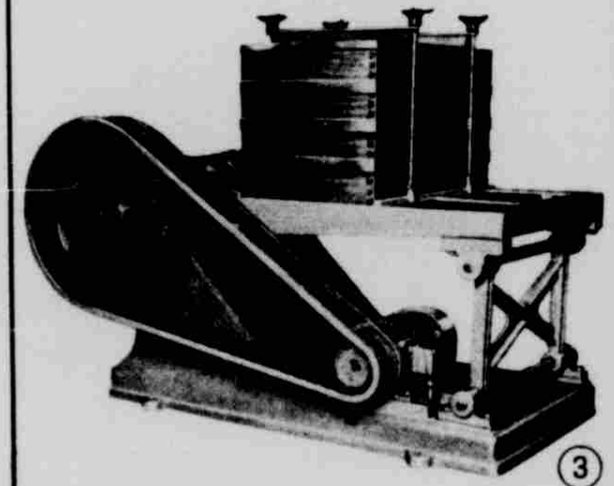
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

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MEN ON THE MOVE

NICOLET INDUSTRIES, INC.

Executive appointments announced by *J. K. Whittaker*, Executive Vice President, include *Toye L. Blagg* as Marketing Manager of Nicofibers, Inc., Shawnee, Ohio, and *Louis J. Melillo* as Operations Manager for Nicolet, responsible for manufacturing operations of the plant at Ambler, Pennsylvania, and two plants operated by subsidiary corporations—Nicofibers, Inc., and NIcotex, Inc., Ambler, Mr. Melillo will report to *John J. Finnegan*, Vice President of Manufacturing for the parent company. Mr. Blagg will report to *C. Fred Workman*, Vice President of Marketing for Nicolet and Nicofibers. The Ambler plant manufactures asbestos specialty products and Nicotex is a maker of asbestos textiles. Nicofibers began production on November 1, 1972, and manufactures continuous-filament glass fiber surfacing material for fiber-reinforced plastic molded products.

PARS MANUFACTURING COMPANY

J. Randall Plummer, a former educator in the Philadelphia School System, has been named General Manager of Pars, a gaskets and packing manufacturer headquartered at Ambler, Pennsylvania. Executive officers of the firm include President *James H. Plummer* and Vice President *James H. Plummer, Jr.*

RAYBESTOS-MANHATTAN, INC.

Marion W. Oliver was appointed General Manager of the North Charleston, South Carolina, manufacturing division of R/M. He initially joined the division in 1941, became Director of Quality Control in 1955, Factory Manager in 1965 and Assistant General Manager in 1967. He succeeds *George F. Ducker* who will retire February 28, 1973, as Vice President and General Manager of the North Charleston facility. . . . *Daniel L. Juhl* was named General Manager-European Operations for R/M International. He had been President and General Manager for Raybestos-Manhattan (Canada) Ltd. *Malcolm E. Schumann, Jr.*, Formerly Manager of Manufacturing with R/M (Canada), replaces Mr. Juhl as General Manager of the Canadian subsidiary.

UNIROYAL, INC.

Walter D. Baldwin was elected Vice Chairman of the Board of Directors, it was announced by Chairman and President *George R. Vila*. Mr. Baldwin joined Uniroyal in 1935 as a tire salesman. He has served as a member of the Board since 1968 when he was elected Vice President-Administration. . . . A major realignment of management responsibilities include the following appointments: *Claude H. Allard* as Group Vice President-Staff Operations; *David Beretta* as Group Vice President-Chemical, Polymer and Textile Fiber Products; *W. Herbert Schmalz* as President, Uniroyal Tire Company; *Edwin A. Martin* as President, Uniroyal International Company; and *Andrew J. McNeill* as President, Uniroyal Chemical Company.

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NEW ASBESTOS PATENTS

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

British 1,280,006—a premix for forming into hot tops or ingot mold linings comprises 5-50% by weight of asbestos shorts, 50-90% of finely divided alumina, silica or other refractory grain, and optionally an organic fiber; assigned to Foseco Trading A.G., July 5, 1972; 6 pages.

British 1,282,760—in the removal of spilled oil or "slicks" from the surface of coastal waters, lakes, rivers or the like, there is applied to the slick an optimum amount of particulate asbestos or carbon black which has been treated with a hydrophobizing agent and the oil-soaked mass burned in-situ on the surface of the water; assigned to Cabot Corporation, July 26, 1972; 6 pages.

British 1,283,033—in the defiberization of asbestos into extremely fine fibers and unit fibrils, crude asbestos is digested in hot orthophosphoric acid until it loses 18-30% of its weight and the treated material subjected to mild milling to open the relatively loose fiber aggregates; J. Golden; assigned to Secretary of State for Defence, July 26, 1972; 3 pages.

German Offen. 2,036,096—a sealing or packing material of improved efficiency, increased life and lessened tendency to undergo distortion is formed by braiding asbestos strands around a central core and impregnating the resulting rope with molybdenum sulfide grease or the like; G. P. Leistensnider; assigned to Johns-Manville Corporation, January 20, 1972; 41 pages.

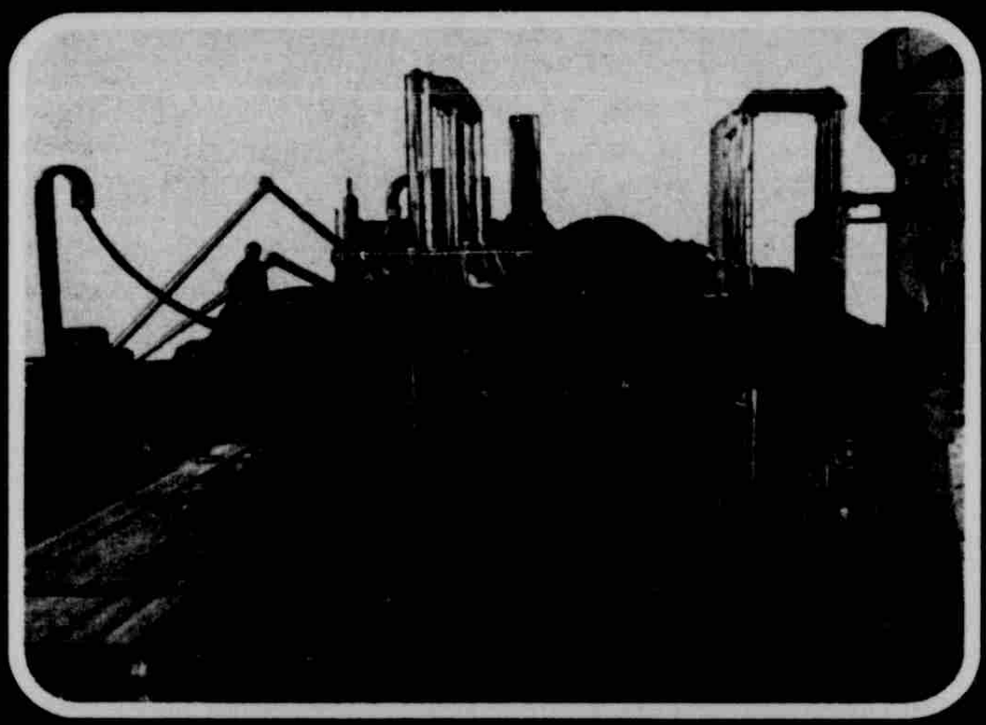
German Offen. 2,042,685—cracks in engine cylinder blocks, concrete walls or the like are repaired by cutting slots perpendicular to the crack and filling the slots with asbestos which has been impregnated with a cold-setting liquid epoxy resin, whereby fiber bundles extend from the slot out into the crack; assigned to Delo Kunststoffe-Chemie GmbH, March 2, 1972; 5 pages.

German Offen. 2,059,845—added surface active agents are removed from coagulated asbestos bodies by washing the bodies in several stages with streams of n- or iso-propanol and ammonia along with dimethyl formamide, and steam-extracting traces of the solvent from the bodies after the final washing; H. Fetzer; assigned to Rex Patent Graf von Rex KG, June 22, 1972; 14 pages.

U.S. 3,677,919—in the recovery of nickel values from asbestos ore, tailings or mine waste, the ore is leached with a methyl alcohol solution of iodine, the leach solution electrolized to deposit nickel on the cathode and collect iodine at the anode, the nickel taken as product and the iodine recovered and re-used; R. P. Fowler; assigned to Johns-Manville Corporation, July 18, 1972; 4 pages.

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CALENDAR OF EVENTS

UNIVERSITY OF WISCONSIN-EXTENSION—Continuing Education Programs scheduled during *February* at the Madison campus, unless otherwise noted: Industrial Adhesives Applications, *6-7;* Electron Probe & Scanning Electron Microscopy, *6-7;* Blasting Considerations & Techniques for Construction (Milwaukee), *8-9;* Critical Path Method Workshop, *14-16;* Environmental Answers for the Aggregate Producing Industries (Milwaukee), *15-16;* Project Development in Architecture-Concept Through Construction, *15-16;* Environmental Design, *29-30.*

FLUID SEALING ASSOCIATION—General Meeting, Marriott Hotel, New Orleans, Louisiana, *February 23.*

U.S.-SPONSORED OVERSEAS PROMOTIONS—Industrial Process Control-Analytical Instrumentation, Trade Center, Sydney, Australia, *March 5-9;* Industrialized Building Exhibition, Trade Center, Tokyo, Japan, *March 5-10;* Pollution Control Equipment Trade Mission to Taiwan, Thailand and Singapore, *March 1973.*

VIENNA INTERNATIONAL SPRING FAIR—emphasis on machinery, equipment and materials for the building industry, Wien, Austria, *March 7-11.*

NATIONAL HOME IMPROVEMENT COUNCIL—2nd Annual Convention, Stouffer's Riverfront Inn, St. Louis, Missouri, *March 9-11.*

BAUMA 73—17th International Construction Machinery Fair (overall survey of developments achieved in construction and materials processing machinery), Exhibition Grounds, Munich, Germany, *March 10-18.*

ASTM COMMITTEE MEETINGS—C-16 on Thermal Insulation, Sheraton Lincoln, Houston, Texas, *March 11-14;* D-13 on Textile Materials (including discussion by Subcommittee 13.14 on woven asbestos tape), Fontainebleau Motor Hotel, New Orleans, Louisiana, *March 12-15;* D-30 on High Modulus Fibers and Their Composites, Cascades Meeting Center & Motor House, Williamsburg, Virginia, *March 10-20;* Third Conference on Composite Materials-Testing & Design (sponsored by D-30 in conjunction with AIAA, ASME & AIME), Williamsburg, Virginia, *March 21-22;* D-14 on Adhesives, Stouffer's Louisville Inn, Louisville, Kentucky, *March 21-23.*

AMERICAN SUBCONTRACTORS ASSOCIATION—2nd Annual Convention, Hilton International Hotel, Las Vegas, Nevada, *March 11-15.*

NATIONAL PLANT ENGINEERING AND MAINTENANCE SHOW & CONFERENCE—McCormick Place, Chicago, Illinois, *March 12-15.*

PREVENTION & CONTROL OF OIL SPILLS—Conference jointly sponsored by American Petroleum Institute, Environmental Protection Agency & U.S. Coast Guard, Sheraton-Park Hotel, Washington, D.C., *March 13-15.*

SOUTHWEST INSULATION CONTRACTORS ASSOCIATION—1973 Convention, Fiesta Palace Hotel, Mexico City, Mexico, *March 13-17.*

Asbestos Magazine, 1973, January 1973
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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?

(December 1922 ASBESTOS)

Circulars describing the organization, capitalization and prospects of Pacific Asbestos Corporation, Calaveras County, California, were being distributed by Pearson & Co., its financiers at the time.

An article from the "Oklahoma Farmer" was quoted as saying "We are going to have fewer different makes of cars than ever before and these cars which are left are going to be more standardized and dependable." Keen price competition in the automotive industry was resulting in the elimination of concerns which lacked adequate production, sales and service organizations capable of meeting the competitive situation. It is interesting to note that at that early stage of the industry, some 300 makes of cars were already "orphans," meaning their production had been discontinued.

The amalgamation of the "Poilite" (asbestos-cement) section of Bell's United Asbestos Co., Ltd., and the British Everite and Asbestilite Works, Ltd., of Manchester, was announced.

(January 1923 ASBESTOS)

Much publicity was given to New York City's campaign against poor brakes and other defects in motor vehicles. It was estimated that, at $25.00 per violation, fines imposed for bad brakes would amount to about $3,000 per month.

ASBESTOS published a comprehensive article on "Asbestos in Arizona," by Mrs. Caroline Nelson, wife of N. A. Nelson who for some years had been Superintendent of the Arizona Asbestos Association. The article traced the development of this section of the Industry from the discovery of asbestos in the Grand Canyon in 1900 up to the rather extensive operations underway in 1922.

Announcement was made of the approval by The Underwriters' Laboratories of "'Featherweight" removable Blue asbestos mattress coverings for sulphite digestors, widely used in the paper making industry. The mattresses were manufactured by the Waite-Wilde Asbestos Company of Framingham, Massachusetts, and proved superior to those made from Chrysotile asbestos in tensile strength and particularly in resistance to attack by acids and alkalies encountered in exposure to sulphite liquors.

Johns-Manville, Inc., anticipating a building boom in the Spring of 1923, was reported to be rushing to finish its two new plants at Asbestos, Quebec, and Waukegan, Illinois, and planned to increase working forces by 15% for an increased production of 26% in insulating and roofing materials. J-M also reported completion of three units of its eight-unit factory in Asbestos City, Illinois. The entire project was valued at some $6 million and was expected to be completed by early 1924.

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Chicago, Chicago Firebrick Co.
Cleveland, Donald McKay Smith, Inc.
Dallas, Thompson-Hayward Chem. Co.
Davenport, Iowa,
Thompson-Hayward Chem. Co.
Denver, Plateau Supply Co.
Des Moines, Thompson-Hayward Chem. Co.
Detroit, A. E. Fleming Co.
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Portland, Durkin Chemicals, Inc.
Seattle, Durkin Chemicals, Inc.
Shreveport, Thompson-Hayward Chem. Co.
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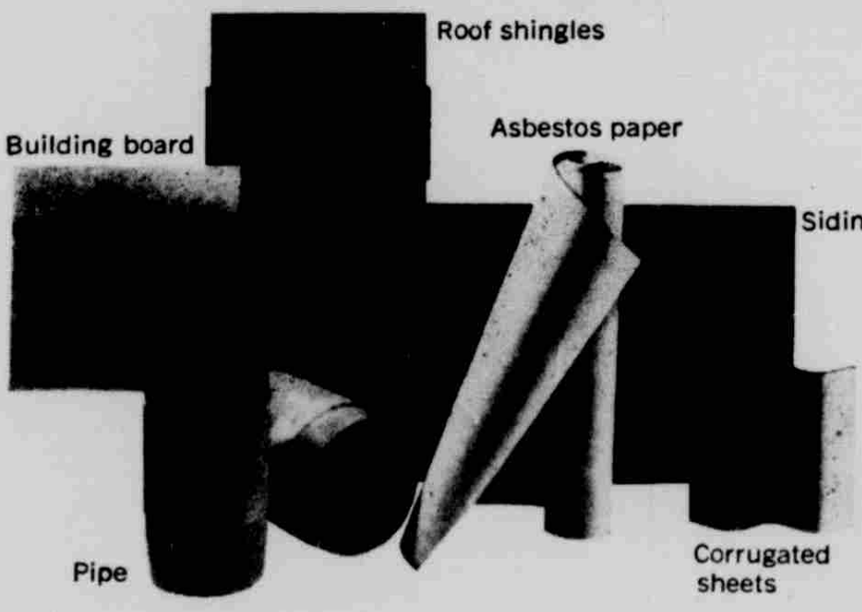
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