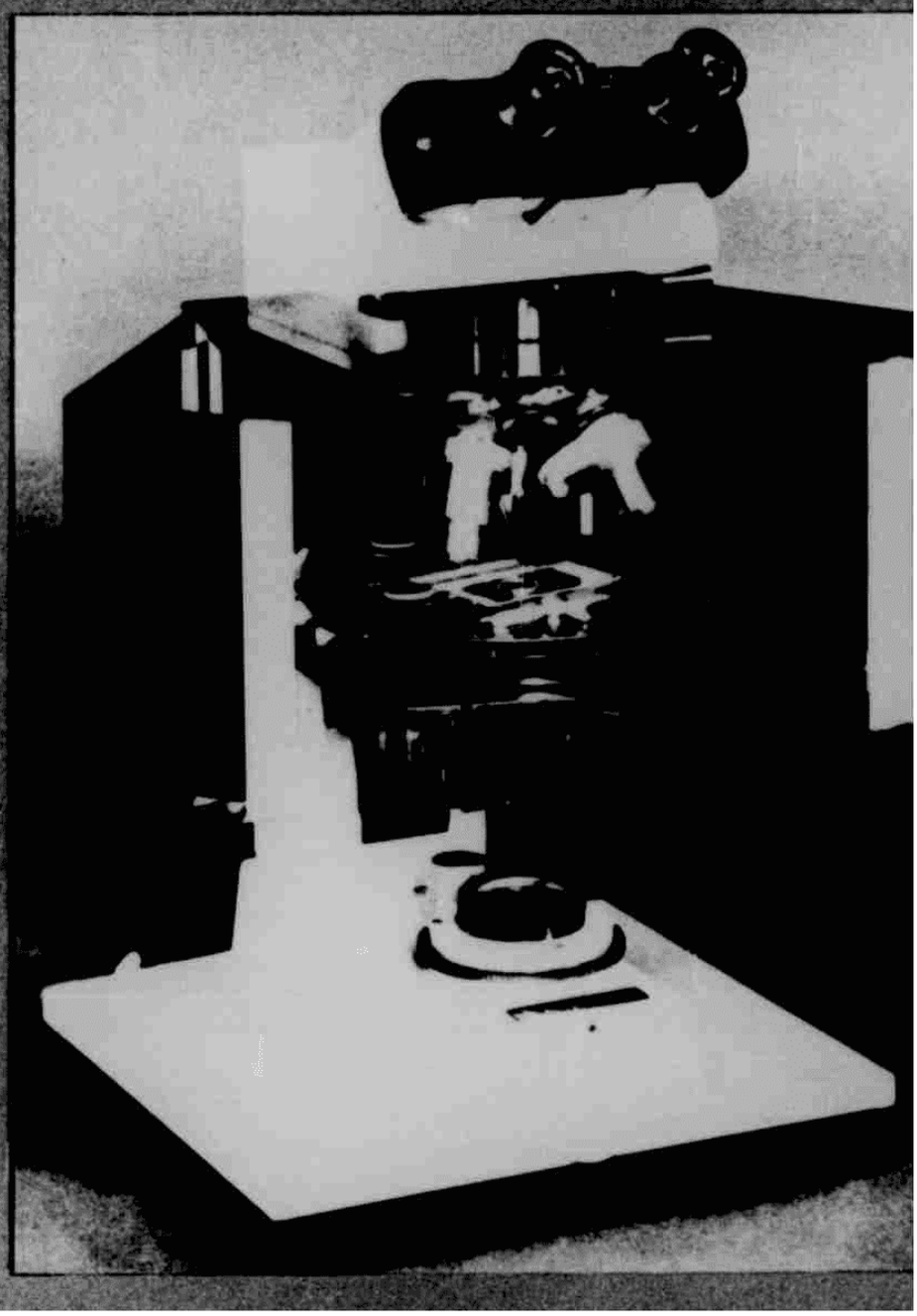
# ASBESTOS

devoted to the
International Asbestos Indust

FEATURING: AUTOMATIC DETECTION
AND COUNTING OF ASBESTOS FIBERS




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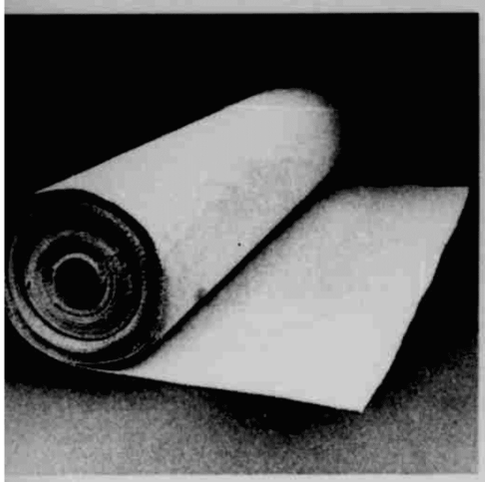
# Cleaner than OSHA requires...

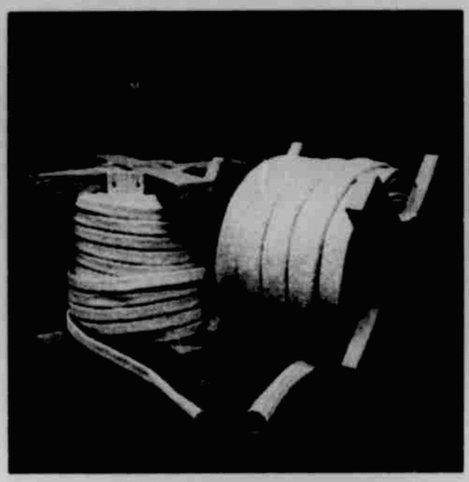
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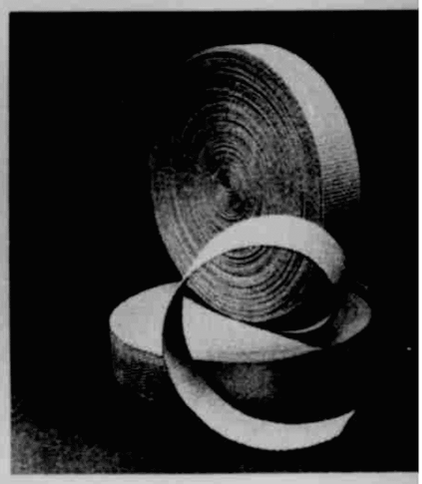
Now there's an asbestos textile that emits fewer fibers than the current OSHA standard when used with proper work practices. It's NOVATEX. Its yarns are extruded wet through a nozzle—not formed dry—which makes it cleaner. Then the NOVATEX products are treated with SEALSAFE™, our exclusive process that further locks in fibers.

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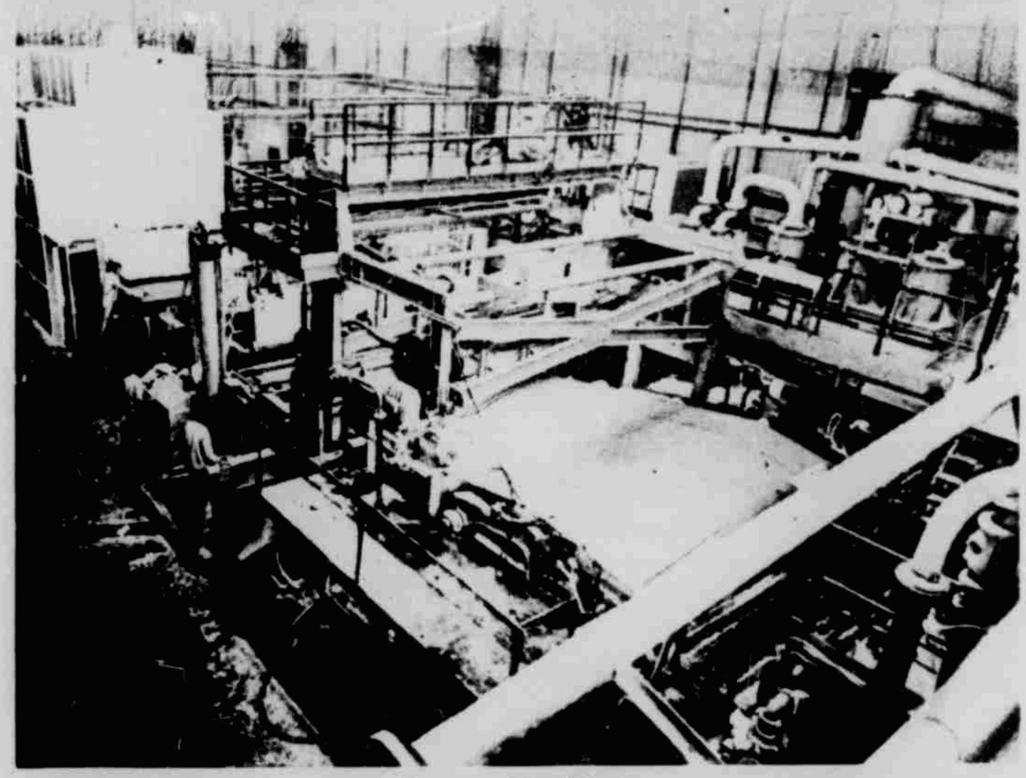
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The turn-key service consists of feasibility studies, project engineering, manufacture, supply, erection and commissioning of automatic and semi automatic plants, personnel training and production know-how.
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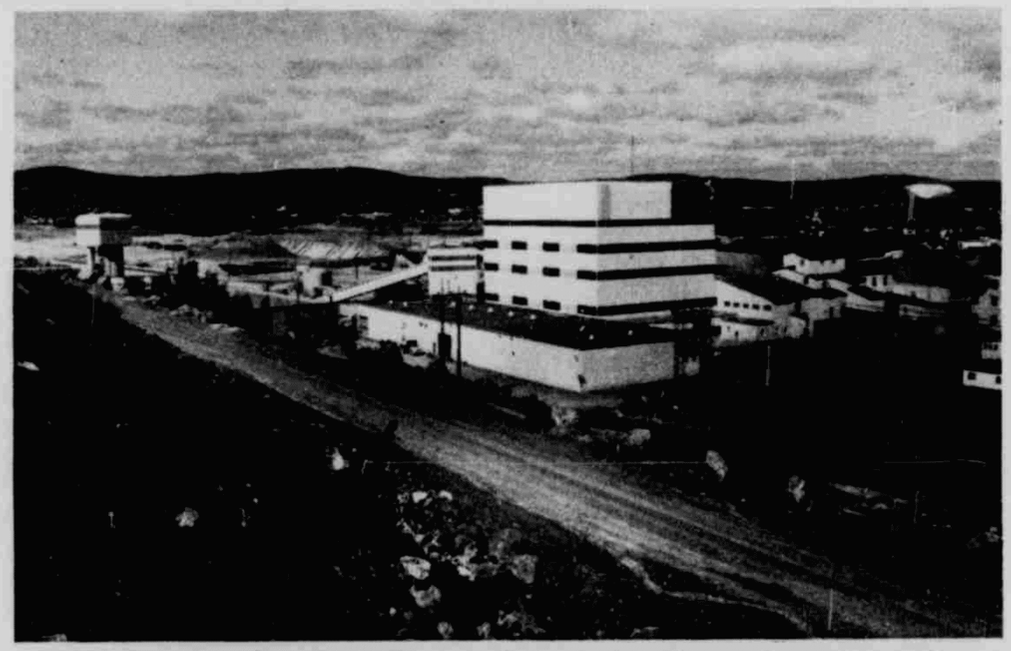
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# ASBESTOS

VOLUME 61 SEPTEMBER 1979 NUMBER 3

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## CONTENTS

AUTOMATIC DETECTION & COUNTING OF ASBESTOS FIBERS .... 4
WELCOME TO NEW ADVERTISER: JOHNNY WALKER ..... 10
MARKET CONDITIONS: GENERAL BUSINESS ..... 12
MOTOR VEHICLE SALES; PRODUCT LIABILITY ..... 14
IMPORTS INTO THE UNITED STATES ..... 16
CANADIAN FIBER SHIPMENTS; MINING ENERGY NEEDS ..... 18
EXPORTS FROM THE UNITED STATES ..... 20
EXPORTS FROM CANADA ..... 22
CURRENT ASBESTOS PRICES ..... 26
THE ASBESTOS MINING SCENE ..... 28
1979 ANNUAL REPORTS: EVERITE; UNITED ASBESTOS ..... 30
1979 HALF-YEAR REPORTS ..... 30
ASBESTOS STOCK QUOTATIONS ..... 34
BIRTHDAY GREETINGS ..... 36
VALUABLE LITERATURE ..... 38
POLLUTION / CONTROL REPORTS ..... 42
CALENDAR OF EVENTS ..... 44
REMEMBER WHEN? ..... 46

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*Asbestos Magazine, 1979, September 1979*
ACL Doc 12725 · Page 5 of 52
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# AUTOMATIC DETECTION AND COUNTING OF ASBESTOS FIBERS

Most countries now require regular atmospheric monitoring of all working spaces where asbestos is handled and have established limits of maximum acceptable concentration of asbestos fibers in the air. These limits vary between countries but, typically, in the United Kingdom are 0.2 fiber per milliliter of air for Crocidolite (Blue) asbestos and 2f/ml for white asbestos such as Chrysotile. Hazardous fibers are considered to be those more than 5 µm long, less than 3 µm in diameter and with a length of at least three times the diameter.

At present, the prime method for assessing the amount and nature of fibers in the atmosphere consists of passing a known volume of suspect air through a membrane filter. The fibers collected on the filter are then viewed through a microscope and are counted by an observer under rigidly specified conditions. The results are indicative of the fiber density in the original air sample.

While the procedures for collecting membrane filter samples are well established and in international use, the manual method of counting the fibers leaves much to be desired from the standpoints of time involved and accuracy achieved. For example, it takes about twenty minutes for a trained observer to count one sample and the tedium and eyestrain involved are such that accuracy must suffer unless frequent rest periods are taken. Even under the best conditions, the results are highly subjective and it is not unusual for assessments made by the same observer on the same sample to differ by 50% or more. By the same token, the results reported by different observers counting the same sample will often show even wider variations.

It has therefore become obvious that the development of techniques and equipment which will substitute "mechanical" counting for the manual methods now used is essential if improved accuracy and reproducibility of results are to be achieved. Since the standards (Threshold Limit Values) are, in most cases, legislated and enforced by government agencies, it becomes of paramount importance to eliminate the inherent subjectivity involved in manual counting and to substitute methods which will produce consistent results which can be read and accepted by anyone with no particular training or skill.

With these considerations in mind, the Health and Safety Commission and the Advisory Committee on Asbestos, together with other advisory bodies such as the Asbestosis Research Council in



*Asbestos Magazine, 1979, September 1979*
ACL Doc 12725 · Page 6 of 52
Published by AsbestosClaims.Law
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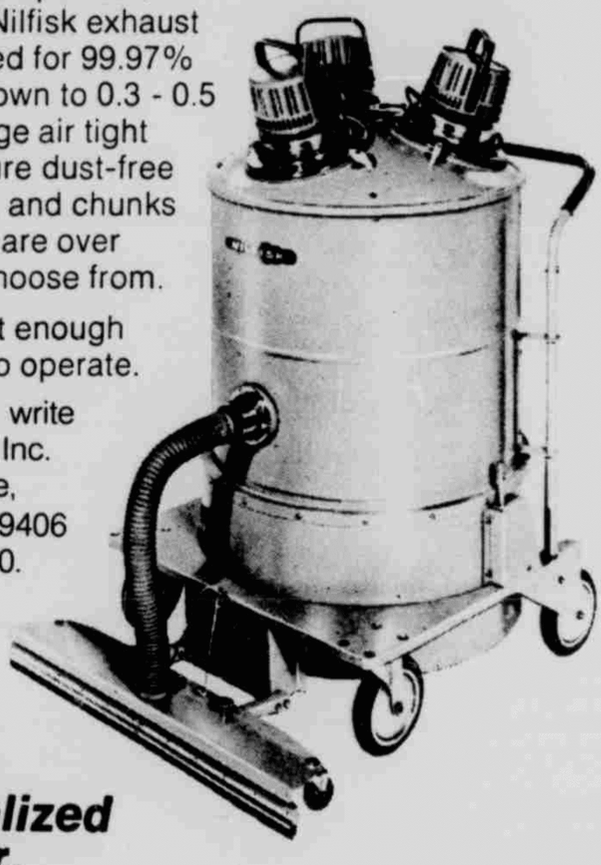
# To meet clean air standards you not only need a centralized dust collector, you also need a decentralized dust collector.

Clean air standards being what they are, you may not be meeting them even with a central dust collector. And this year, standards are being tightened even further.

So you ought to look at the Nilfisk GA 73 portable industrial vacuum cleaner. It picks up where central systems leave off. And it does that with Nilfisk's exclusive multi-stage filtration system. The oversize main filter resists early dust clogging, and can be shaken and cleaned at all times without exposing the operator.
In addition special Nilfisk exhaust filters can be installed for 99.97% average retention down to 0.3 - 0.5 microns. Heavy gauge air tight container liners insure dust-free disposal of fine dust and chunks of debris. And there are over 50 attachments to choose from.

Yet the GA 73 is light enough for a single person to operate.

For more information, write to Nilfisk of America, Inc. 201 King Manor Drive, King of Prussia, PA 19406 or call (215) 277-3900.



**NILFISK GA 73.**
***The decentralized dust collector.***

the U.K. and similar organizations in other countries, are actively encouraging, and equipment manufacturers are responding with, devices and methods which are designed to minimize the human element in assessing hazards due to airborne fibers of asbestos or other potentially harmful materials.

Of particular interest are two related developments by British companies. The first permits assessment of samples of asbestos dust collected in the conventional way on membrane filters at rates up to 30 samples per hour. The technique involves exposing the collected fibers to a magnetic field while preparing the membrane filter for examination and producing a two-dimensional film of aligned fibers. The alignment properties and quantity of fibers is then assessed by monitoring the scatter pattern produced by directing a collimated beam of light onto the specimen. It is suitable for immediate analysis of samples collected from working environments. The second is intended to aid compliance with health and safety regulations and to serve as a tool for researching improved safety standards. It can automatically detect and count individual asbestos fibers and can also measure the length and width of such fibers. It employs the Joyce-Loebl "Magiscan" computerized image-analysis system in conjunction with a sophisticated software package applying the system specifically to asbestos assessment.

## *THE "TIMBRELL-VICKERS AUTOMATIC FIBER EVALUATION SYSTEM"*

This system for rapid monitoring of airborne asbestos fibers is based on the alignment properties of asbestos fibers in magnetic fields and on the use of automatic light-scattering technique as used in monitoring of industrial atmospheres.

Dr. Vernon Timbrell of the U.K. Medical Research Council Pneumoconiosis Unit, after many years of study, has shown that asbestos fibers, when suspended in suitably low-viscosity media and subjected to suitably strong magnetic fields, align, usually parallel, but sometimes normal, to the field. By allowing complete evaporation of a solvent suspension of the fibers, prepared on glass slides placed in a magnetic field, a two-dimensional film of aligned fibers may be produced.

The automatic system for assessing the alignment and quantity of fibers on the film consists of a standard Vickers M17

*THE COVER: Vickers M17 microscope modified to perform automatic counting of asbestos fibers using the Timbrell-Vickers Automatic Fiber Evaluation System.*




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**"BAG BREAKER"** = It empties any bag of asbestos

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= Dust in the air : less than 0,1 f/cm$^3$

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microscope equipped with means for directing a collimated beam of light onto the specimen while the specimen is rotated through 360° and a microprocessor for measuring the intensity of scattered light produced by the specimen and for summing up the areas under the peaks, correcting automatically for background. The raw results are in arbitrary units which may vary for different asbestos types. The equipment can be calibrated by carrying out a careful manual count on one sample. The calibration factor thus obtained can thereafter be set manually for any similar samples. Results may be presented in fibers per $mm^2$ of filter surface or in f/ml of air.

The instrument's useful range is from about 50 to 5000 fibers per $mm^2$ of membrane surface, corresponding to airborne concentrations of from 0.1 to 10f/ml under typical sampling conditions. Since the microscope is also designed for conventional manual counting, operators may count specimens manually as well as automatically and may perform the manual counts necessary for calibrations without using a separate instrument. Once calibrated, the instrument has the potential to analyze samples at a rate of up to 30 per hour.

The technique for preparation of samples for automatic counting is not significantly more complicated than conventional techniques for clearing membrane filters. It simply requires application of the magnetic field during preparation, using a special cleaning solution, so sample preparation times are not appreciably increased.

Much credit is due Dr. Timbrell for his work in establishing the alignment properties of asbestos fibers in magnetic fields. Application of this knowledge and of the use of light-scatter-patterns to determine the quantity of asbestos present in samples collected in the conventional manner on membrane filters were developed by International Research and Development Company Ltd., Newcastle upon Tyne, England, on behalf of Vickers Instruments, York, England, and Vickers will market the apparatus on a worldwide basis.

## *IMAGE ANALYSIS*

To provide detailed information on the size and shape distribution of asbestos fibers, essential for monitoring health-hazard standards, it is necessary to detect and count individual fibers. The Joyce-Loebl "Magiscan" does this by utilizing the technique of image analysis.

A conventional dust sample is viewed through a television camera linked to a microscope. A powerful computer scans the



*Asbestos Magazine, 1979, September 1979*
ACL Doc 12725 · Page 10 of 52
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resulting image and is instructed how to recognize any asbestos fibers present. Instructions consist of computer software especially developed for this task. This software can be readily modified to cope with any changes which may occur in various applicable legal requirements.

The main problems in identifying asbestos fibers automatically are first, to distinguish faint fibers near the limit of microscope resolution from the background; second, to resolve tangles of overlapping fibers into individual fibers; third, to associate sections of the same fiber which may be seen only as disconnected fragments; fourth, to measure the true length and width of fibers of complex configuration.

The program now available identifies faint fibers by considering every point of the televised image of the microscope field in relation to neighboring points — seeking linearly consistent patterns in terms of gray-levels. By choosing a suitable "threshold" gray-level, a simple white-on-black image of all such detected fibers is obtained. Next, each fiber image is reduced to a single-point thickness, representing the centerline of the fiber and this "skeleton" image is superimposed on the original image. Logical rules are then applied to decide which broken or crossing lines belong with each other. Any individual fiber image can be isolated for examination if desired. Finally, fiber length is measured from the skeleton image and average width by considering the gray-level profile normal to the centerline at intervals along the fiber. All images not meeting the size definitions for hazardous fibers are automatically excluded from the count.

Using the "Magiscan" procedure, fully automatic analysis of a standard sample takes typically 6 minutes, depending on the density of fibers present, and gives results that correlate excellently with the most careful manual counts.

The "Magiscan" computerized image-analysis system is made by Joyce-Loebl, Gateshead, England, a division of Vickers Ltd. A sophisticated software package applying the "Magiscan" to asbestos assessment has been developed by the Wolfson Image Analysis Unit at Manchester University and is available from Joyce-Loebl. Britain's Asbestosis Research Council provided financial support for the project.

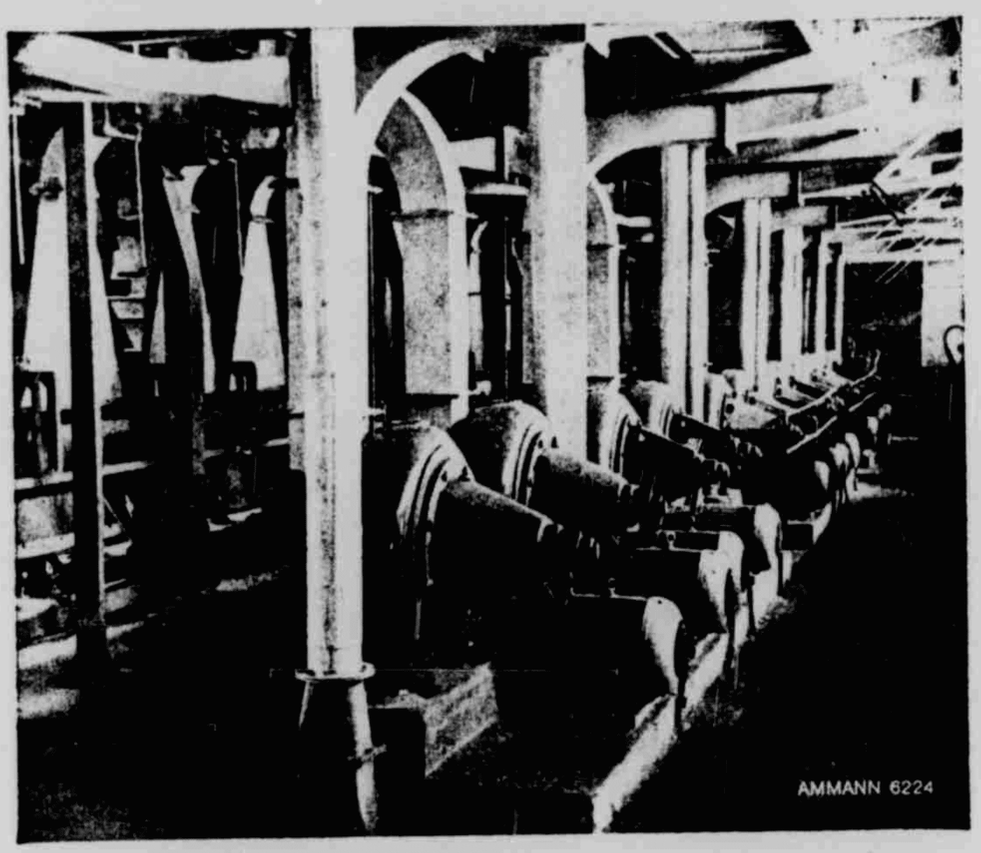
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**—WELCOME TO NEW ADVERTISER—**
**JOHNNY WALKER/DEVELOPMENTS/LTD.**
**Tetbury, Glos., England; page 33**




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# AMMANN Asbestos Mill




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

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

## U. AMMANN Ltd.

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*Asbestos Magazine, 1979, September 1979*
ACL Doc 12725 · Page 13 of 52
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# MARKET CONDITIONS

## GENERAL BUSINESS

Most indicators are confirming the fact that the economy is in a recession. The chief argument among economists now is whether the dip will be mild and short or deep and long. Opinions are about evenly divided at this time.

The Federal Reserve Board continues to follow its tight-money policy in an effort to slow inflation and the prime rate at major banks hit a new all-time high of 13¼ % in early September. Some observers predict an even higher prime rate in the near future. Both short- and long-term interest rates have moved upward in response to such anticipations.

The stock market rallied strongly in August, based largely on investors' hopes that any recession would be short but would exert enough donward pressure on prices to reverse the inflationary spiral. Much as we would welcome an abatement of the unconscionable current rate of inflation, the history of recent recessions indicates their effects on inflation are not only quite limited but are of a temporary nature at best and, once the economy starts to revive, prices resume their upward course. Until government recognizes that it is the root cause of inflation and musters the courage to take politically unpopular corrective measures, we can look forward to a continuation or worsening of this insidious malaise.

World financial markets continue to recognize the fact the United States is apparently unable or unwilling to put on a real fight against inflation or to take necessary measures to cope with its energy problems—witness the fact that precious metals prices rose to all-time record highs and weakness in the dollar continued in early September.

Congress is in session after the summer recess and is again considering the most recent Carter proposals on the subject of energy. Regardless of one's perception of the energy problem and of one's choice of possible solutions, it is generally agreed that adoption of the President's proposals would entrust our entire energy future to the government bureaucracy which failed so miserably to effectively deal with the most recent motor fuel crisis. We doubt the average citizen has any conception of the drastic departure from the fundamental American system which the Carter program would entail or of the tremendous risks involved in placing so many of our eggs in one basket, offering no hope of early contributions toward solution of our problems.



*Asbestos Magazine, 1979, September 1979*
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## MOTOR VEHICLE FACTORY SALES

*FIRST HALF 1979*—Motor vehicle factory sales from plants in the *United States* totaled 6,607,872 during the first six months of 1979 compared with 6,776,243 in the first half of 1978. Breakdown for the latest half-year is: 4,753,462 passenger cars (down 161,026) and 1,854,410 trucks and buses (down 7,345).

Factory sales from plants in *Canada* reached 941,357 motor vehicles to June 1979 compared with 966,664 in the comparable, year-earlier half. [Motor Vehicle Manufacturers Association of the United States, Inc.]

## INSURANCE AGAINST PRODUCT LIABILITY AND COMPENSATION

A new vitality was recently injected in the Quebec mining industry by the mine department headed by Mr. Yves Berube and the Finance Minister Mr. Jacques Parizeau. The scheme which allows Quebeckers to deduct up to $15,000 they invest in the new stock of Quebec-based mining companies from their taxable income appears to be a step in the right direction. However, since asbestos export is most vital to the Quebec economy and since it also represents over 4% of total Canadian mineral exports comprising as many as sixty different minerals, both the federal government and the Quebec government have vested interests in providing some assistance to industry exposed to worldwide pressures.

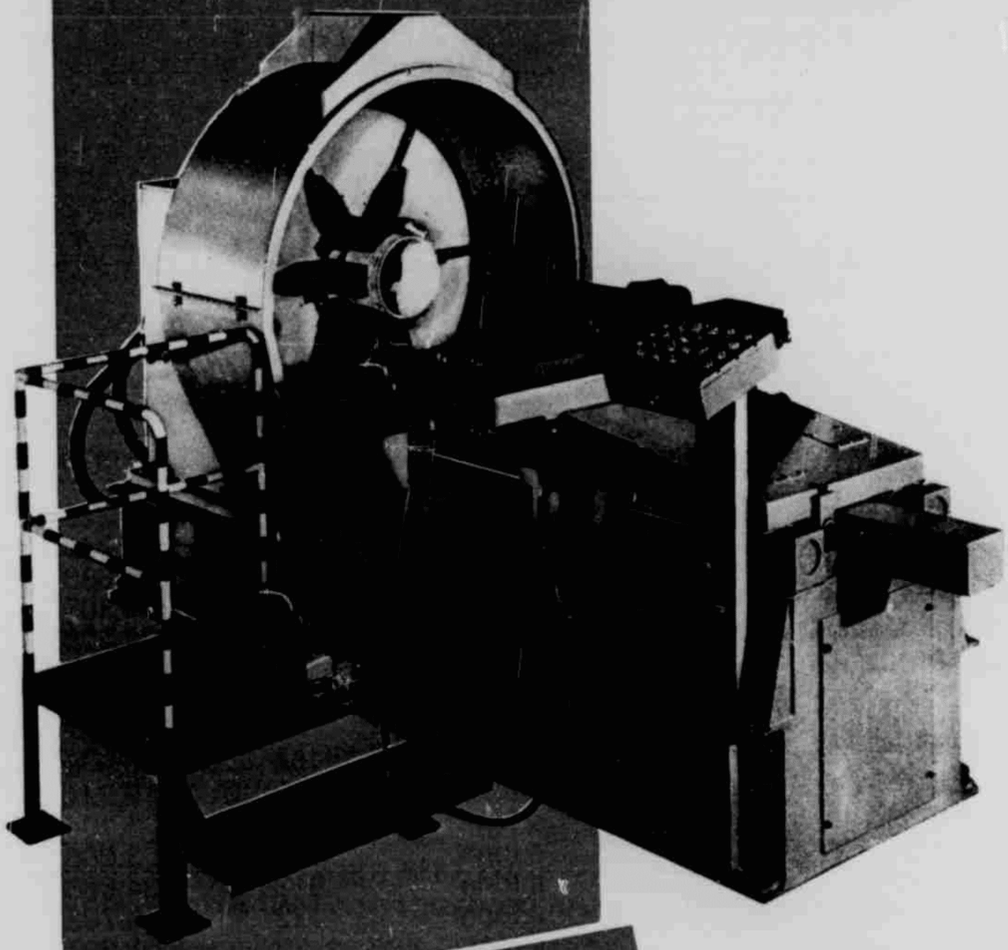
The availability on reasonable terms of an insurance policy against product liability now crossing frontiers and against asbestosis compensations could revitalize the industry. Such a benefit could be made available not only to the Quebec mining industry but also to all importers of this commodity. This should give an edge to Quebec asbestos in competitive export markets and also a new lease on life to the processing industry. The funds could be raised by imposing a levy on each ton of fiber exported though both the federal government and the Quebec government may consider contributing initial capital to launch such a scheme.

The creation of the proposed insurance coverage could prevent some closures of plants and lend some encouragement to all those who have faith in the future of this unique mineral, asbestos, serving mankind in a variety of ways. [Asbestos Bulletin, March-April 1979]



*Asbestos Magazine, 1979, September 1979*
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# MODERN HIGH EFFICIENT MACHINERY AND EQUIPMENT FOR THE ASBESTOS/CEMENT INDUSTRY



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# PRODUCTION—IMPORTS—EXPORTS

## IMPORTS INTO THE UNITED STATES

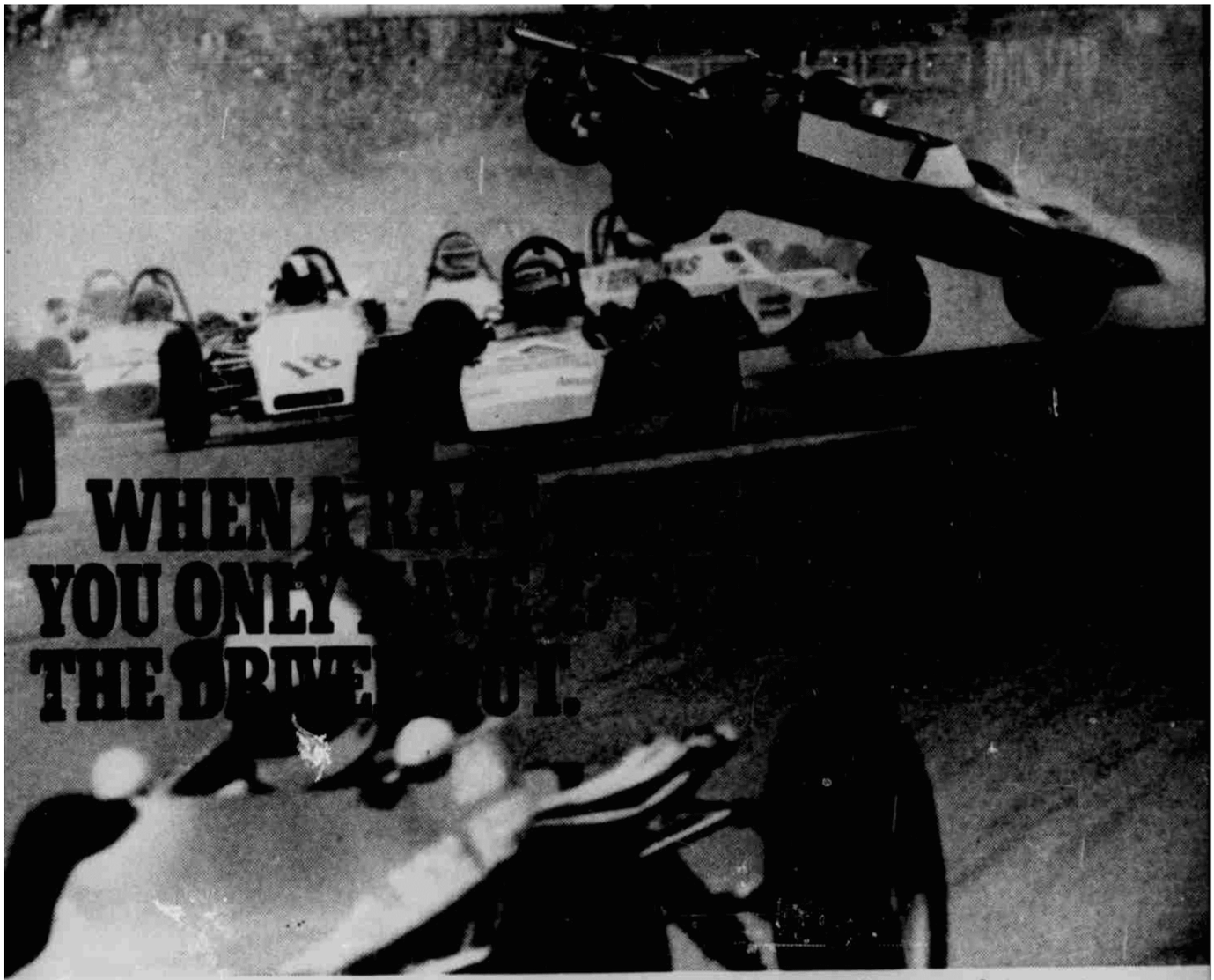
**From: U.S. Bureau of the Census**

| | | | MAY 1979 | |
|---|---|---|---|---|
| **UNMANUFACTURED ASBESTOS:** | | | | |
| Amosite, South Africa | s.tons | 40 | $ | 20,329 |
| Crocidolite (Blue), South Africa | s.tons | 692 | | 423,480 |
| Chrysotile Crudes | s.tons | .. | | .. |
| Chrysotile Spinning Fibers, Canada | s.tons | 481 | | 254,600 |
| Chrysotile, Other, Canada | s.tons | 43,418 | | 9,365,318 |
| South Africa | s.tons | 518 | | 321,343 |
| Other Crudes & Fibers, Canada | s.tons | 1,124 | | 284,684 |
| India | s.tons | 50 | | 10,920 |
| Mexico | s.tons | 1 | | 1,000 |
| South Africa | s.tons | 17 | | 9,643 |
| | | 46,341 | | $10,691,317 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 982,667 | $ | 1,615,193 |
| A-C pipes, tubes & fittings | Lb | 2,109,031 | | 336,993 |
| Other asbestos-cement articles | Lb | 2,120,834 | | 528,424 |
| Other asbestos articles | | .. | | 494,116 |
| | | | $ | 2,974,726 |

| | | | JANUARY-MAY 1979 | |
|---|---|---|---|---|
| **UNMANUFACTURED ASBESTOS:** | | | | |
| Amosite, Canada | s.tons | 60 | $ | 4,339 |
| South Africa | s.tons | 348 | | 176,245 |
| Crocidolite (Blue), Canada | s.tons | 49 | | 17,688 |
| South Africa | s.tons | 7,948 | | 4,994,305 |
| Chrysotile Crudes, Canada | s.tons | 102 | | 22,209 |
| South Africa | s.tons | 403 | | 254,336 |
| Chrysotile Spinning Fibers, Canada | s.tons | 4,150 | | 3,176,727 |
| Chrysotile, Other, Australia | s.tons | 40 | | 4,377 |
| Canada | s.tons | 249,103 | | 54,286,978 |
| Germany, Federal Republic | s.tons | 12 | | 7,271 |
| Mexico | s.tons | 6 | | 1,104 |
| Romania | s.tons | 22 | | 3,666 |
| South Africa | s.tons | 913 | | 534,666 |
| United Kingdom | s.tons | 22 | | 3,763 |
| Yemen | s.tons | 22 | | 8,397 |
| Other Crudes & Fibers, Canada | s.tons | 5,410 | | 1,606,289 |
| Germany, Federal Republic | s.tons | 11 | | 28,967 |
| Italy | s.tons | 17 | | 3,630 |
| India | s.tons | 135 | | 30,800 |
| Mexico | s.tons | 1 | | 1,000 |
| South Africa | s.tons | 107 | | 45,737 |
| | | 268,881 | | $65,212,394 |



*Asbestos Magazine, 1979, September 1979*
ACL Doc 12725 · Page 18 of 52
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And only one material can protect the man who gets him out. At every race track there is a fireman wearing special protective clothing at all times.

Obviously this suit is made of aluminized asbestos because only asbestos can protect the wearer in temperatures that make magnesium wheels go off like flash guns and causes chassis to melt. As a matter of fact, asbestos is the only woven material that can make this claim and without it, race drivers, firemen and others who work in these environments would be defenseless.

Asbestos. We couldn't live the way we do without it.

ASBESTOS

**When life depends on it, you use asbestos.**

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**Sun Life Building,**
**Montréal, Québec H3B 2X6,**
**Canada.**

**Represented by:**
Meyers Chemicals Inc., 4245 Union Rd., Buffalo, N.Y. 14225, **U.S.A.**
C. L. Zimmerman Co.,
N 203 Cincinnati Union Terminal, Cincinnati, Ohio 45203, **U.S.A.**
Other representatives world-wide.

U.S. IMPORTS—CONTINUED

***MANUFACTURED ASBESTOS PRODUCTS:***

| | | | |
|---|---|---|---|
| Asbestos yarn, cloth, tape, etc. | Lb | 3,980,404 | $ 6,157,017 |
| A-C pipes, tubes & fittings | Lb | 13,491,062 | 1,944,633 |
| Other asbestos-cement articles | Lb | 13,711,367 | 2,635,726 |
| Other asbestos articles | | | 2,208,552 |
| | | | $12,945,928 |

*January-May 1978: U.S. imports of unmanufactured asbestos totaled 238,421 short tons, valued at $61,973,288; imports of manufactured asbestos products were valued at $13,684,626.*

## CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 138,836 metric tonnes in *June 1979*, compared with 125,966 tonnes in the same month a year earlier. The cumulative total for *January-June 1979* was 715,703 tonnes: 633,606 tonnes from plants in Quebec and 82,097 tonnes from plants in Newfoundland, Ontario, British Columbia and the Yukon. Total shipments for the first six months of 1978 were 633,298 tonnes: 532,740 tonnes from Quebec plants and 100,558 tonnes from plants in the other four Provinces. [Statistics Canada, Ottawa]

## ASBESTOS MINING ENERGY REQUIREMENTS

The U.S. Bureau of Mines conducted a comprehensive study of the energy used in the asbestos mining industry in 1973. The survey covered all producers in Arizona, California, North Carolina and Vermont. On a tonnage basis, energy used per ton of usable asbestos was equivalent to 1,500 kilowatt hours. Estimated cost was $1.7-million, or $12.73 per ton. The ease of mining the Coalinga, California, deposit kept these data low. . . . In contrast, data extracted from a University of Illinois study demonstrate the energy costs of a large mine and mill with higher extraction energy requirements than the average U.S. producer. Their energy needs per ton are equivalent to 3,112 kilowatt hours. This information compares favorably with a report from Battelle Columbus Laboratories which found the energy used per ton of asbestos produced to be 2,747 kilowatt hours. The following statistics(1) show the need for asbestos by the energy-producing industries during the period 1975 to 1990: geothermal power plants—53,100 metric tonnes; nuclear fission power plants—48,438 tonnes; oil and gas refineries, port facilities, LNG, pipelines—44,860 tonnes; fossil fuel power plants—277 tonnes; coal mines and transport—88 tonnes; uranium mining and processing—77 tonnes; bioconversion—1 tonne—Total: 146,841 tonnes. [Asbestos, Mineral Commodity Profile, July 1979, by R. A. Clifton]

(1) S. Dayton, the Greatest Challenge: Growing in New America, Engineering Mining Journal, June 1976



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— Complete plants with high capacity for corrugated and flat sheets, flat pressed and coloured sheets.

— Production of special sheets up to 9 mt length.

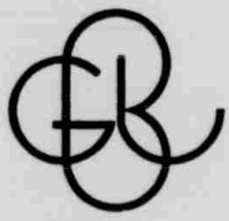
— Auxiliary machines for special sheet profiles.

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— Special plants for preparation of wet and dry Asbestos.

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— Complete projects, know-how, technical assistance for sheet and pipe lines.



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# EXPORTS FROM THE UNITED STATES

***From: U.S. Bureau of the Census***

**MAY 1979**

***UNMANUFACTURED ASBESTOS:***

| | | | |
|---|---|---|---|
| Asbestos crudes, fibers & stucco | s.tons | 3,218 | $ 1,108,839 |
| Asbestos sand & refuse | s.tons | 772 | 307,201 |
| | | 3,990 | $ 1,416,040 |

***MANUFACTURED ASBESTOS PRODUCTS:***

| | | | |
|---|---|---|---|
| Asbestos yarn, cloth, tape, etc. | Lb | 707,865 | $ 742,874 |
| Asbestos-Cement shingles & clapboard | Lb | 1,007,118 | 208,610 |
| Other asbestos-cement articles | Lb | 2,177,141 | 928,943 |
| Asbestos gaskets | Lb | 1,763,218 | 525,189 |
| Asbestos packings & seals | Lb | 502,426 | 1,363,036 |
| Asbestos insulation | | .. | 298,169 |
| Brake linings & disc brake pads | | .. | 6,559,354 |
| Clutch facings & linings | | .. | 703,119 |
| Other asbestos articles | | .. | 2,211,576 |
| | | | $13,540,870 |

**JANUARY-MAY 1979**

***UNMANUFACTURED ASBESTOS:***

| | | | |
|---|---|---|---|
| Asbestos crudes, fibers & stucco | s.tons | 12,154 | $ 4,225,128 |
| Asbestos sand & refuse | s.tons | 3,889 | 1,316,093 |
| | | 16,043 | $ 5,541,221 |

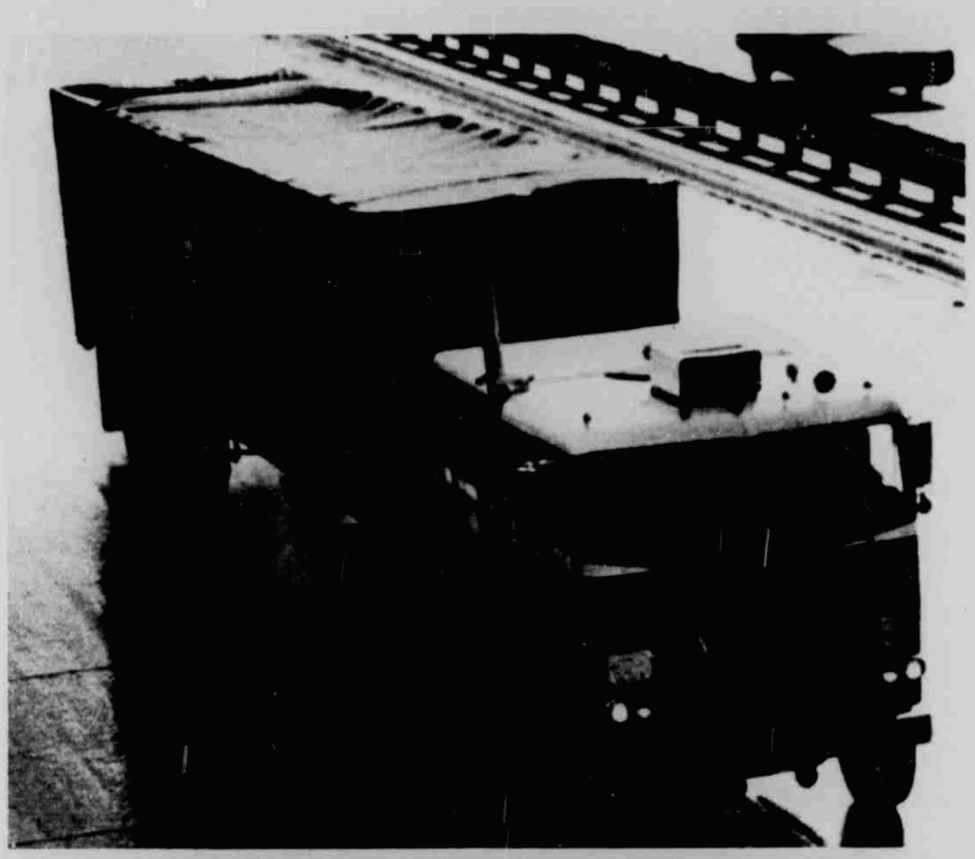
***MANUFACTURED ASBESTOS PRODUCTS:***

| | | | |
|---|---|---|---|
| Asbestos yarn, cloth, tape, etc. | Lb | 2,807,752 | $ 2,879,567 |
| Asbestos-Cement shingles & clapboard | Lb | 8,893,301 | 2,093,066 |
| Other asbestos-cement articles | Lb | 21,617,544 | 6,934,695 |
| Asbestos gaskets | Lb | 7,829,135 | 2,445,369 |
| Asbestos packings & seals | Lb | 1,839,162 | 5,198,668 |
| Asbestos insulation | | .. | 1,839,877 |
| Brake linings & disc brake pads | | .. | 25,782,835 |
| Clutch facings & linings | | .. | 3,940,347 |
| Other asbestos articles | | .. | 9,147,650 |
| | | | $60,262,074 |

*January-May 1978: U.S. exports of unmanufactured asbestos reached 19,145 short tons, valued at $5,277,084; exports of manufactured asbestos products were valued at $49,632,257.*



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# EXPORTS FROM CANADA

**From: Statistics Canada**

## APRIL 1979

Short Tons

| UNMANUFACTURED ASBESTOS: | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe | .. | 596 | 14,442 | 11,239 |
| Eastern Europe | .. | 1,297 | 3,128 | 314 |
| Middle East | .. | .. | .. | 19 |
| Africa | .. | .. | 137 | .. |
| Asia | .. | 439 | 7,593 | 8,434 |
| Oceania | .. | .. | 1,788 | 71 |
| So. & Cen. America & Antilles | .. | 70 | 10,278 | 4,406 |
| United States | 22 | 570 | 9,073 | 36,002 |
| | 22 | 2,972 | 46,439 | 60,485 |

The total amount of unmanufactured asbestos exported in *April 1979* was 109,918 short tons, valued at C$42,814,000.

**MANUFACTURED ASBESTOS PRODUCTS:**

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 325,000 |
| Asbestos brake linings & facings | 285,000 |
| Asbestos-Cement building materials | 1,149,000 |
| Other basic asbestos products | 582,000 |
| | C$2,341,000 |

## JANUARY-APRIL 1979

| UNMANUFACTURED ASBESTOS: | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe | .. | 3,094 | 63,755 | 50,629 |
| Eastern Europe | .. | 1,555 | 11,644 | 429 |
| Middle East | .. | 88 | 2,101 | 337 |
| Africa | .. | .. | 1,817 | 725 |
| Asia | .. | 1,550 | 39,019 | 39,196 |
| Oceania | .. | .. | 7,621 | 477 |
| So. & Cen. America & Antilles | .. | 840 | 28,647 | 21,600 |
| United States | 22 | 2,904 | 45,185 | 169,825 |
| | 22 | 10,031 | 199,789 | 283,218 |

The total amount of unmanufactured asbestos exported in *January-April 1979* was 493,060 short tons (447,290 metric tonnes), valued at C$179,892,000.

**MANUFACTURED ASBESTOS PRODUCTS:**

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 1,960,000 |
| Asbestos brake linings & facings | 1,331,000 |
| Asbestos-Cement building materials | 4,276,000 |
| Other basic asbestos products | 2,567,000 |
| | C$10,134,000 |

*January-April 1978: Canadian exports of unmanufactured asbestos totaled 462,844 short tons (419,812 metric tonnes), valued at C$166,300,000; exports of manufactured asbestos products were valued at C$8,513,000.*



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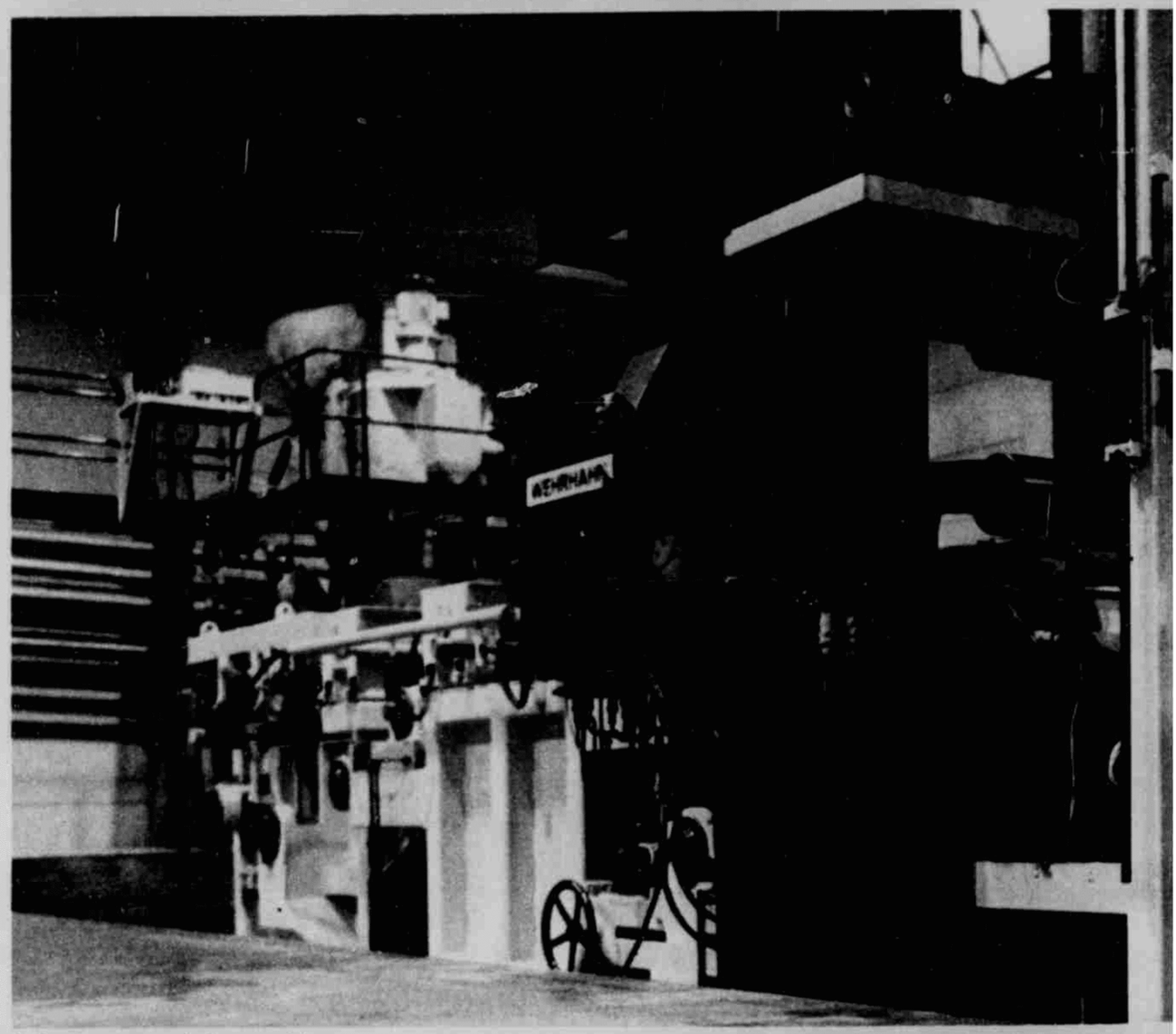
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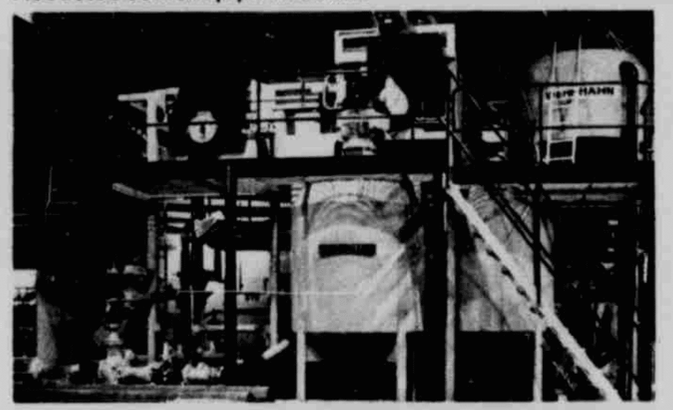
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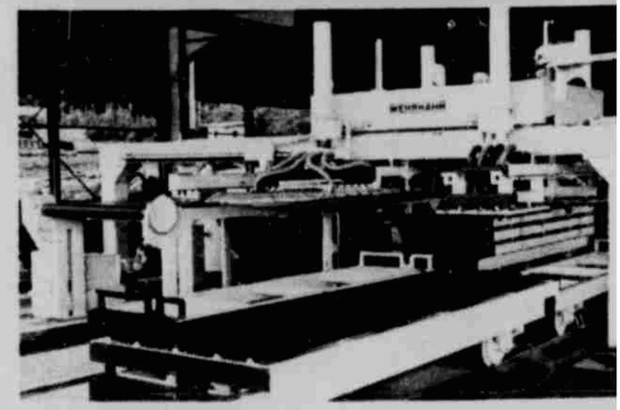
# WEHRH



Asbestos cement pipe machine



Slurry preparation



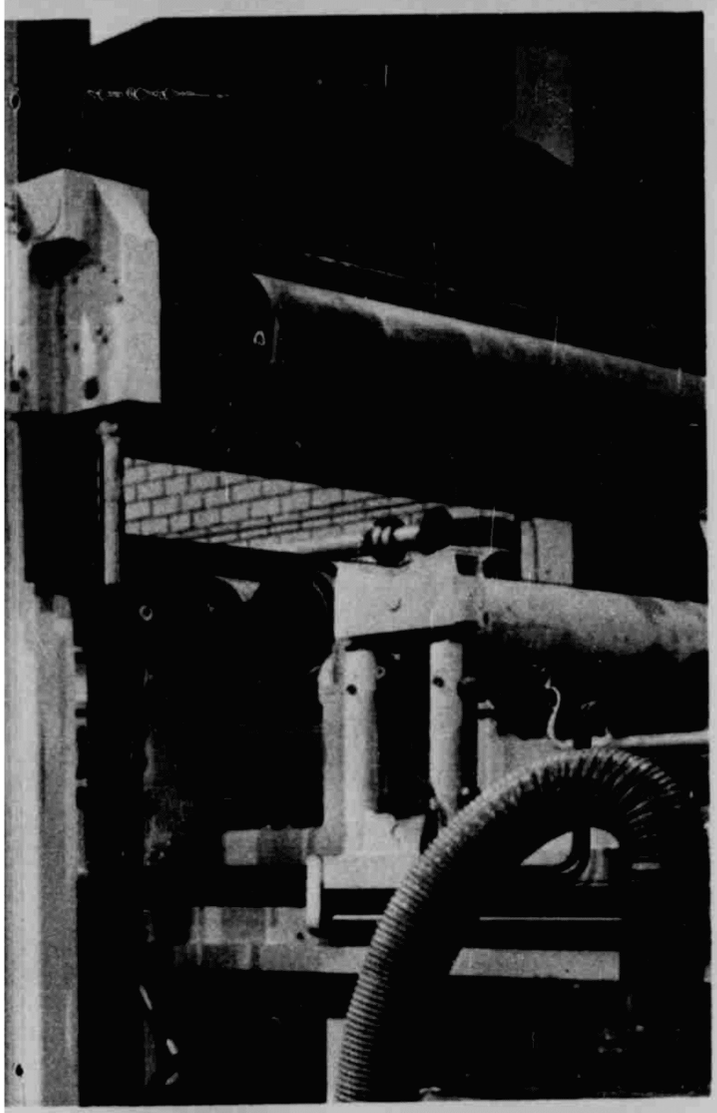
ac-sheet corrugation section

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# CURRENT ASBESTOS PRICES

## QUEBEC

*As of July 1, 1979*

*Per Ton of 2000 Lbs., F.O.B. Mine*
*Canadian Dollars*

| | |
|---|---|
| No. 2 Crude | $2295 |
| No. 3 Spinning Fiber | $1023—$1606 |
| No. 4 Asbestos Cement Fiber | 687— 1011 |
| No. 5 Paper Fiber | 388— 580 |
| No. 6 Paper and Shingle Fiber | 330— 352 |
| No. 7 Shorts | 113— 218 |

## CASSIAR

*As of January 1, 1979*

*Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
*Canadian Dollars*

Cassiar Mine

| | | |
|---|---|---|
| C-1 | —No. 1 Crude | $3621 |
| AAA | —Nonferrous Spinning Fiber; Canadian Group 3 | 2000 |
| AA | —Nonferrous Spinning Fiber; Canadian Group 3 | 1600 |
| A | —Nonferrous Spinning Fiber; Canadian Group 3 | 1050 |
| AC | —Nonferrous Spinning Fiber; Canadian Group 3 | 960 |
| AK | —Asbestos Cement Fiber; Canadian Group 4 | 850 |
| AS | —Asbestos Cement Fiber; Canadian Group 4 | 740 |
| AX | —Asbestos Cement Fiber; Canadian Group 4 | 670 |
| AY | —Asbestos Cement Fiber; Canadian Group 5 | 470 |
| AZ | —Asbestos Cement Fiber; Canadian Group 6 | 340 |

Clinton Mine

| | | |
|---|---|---|
| CT | —Asbestos Cement Fiber; Canadian Group 4 | $ 680 |
| CY | —Asbestos Cement Fiber; Canadian Group 5 | 470 |
| CZ | —Asbestos Cement Fiber; Canadian Group 6 | 340 |

## VERMONT

*As of January 1, 1979*

*Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
*U.S. Dollars*

| | |
|---|---|
| Grade 4T Fiber | $ 591 |
| Grade 5K Fiber | 457 |
| Grade 5R Fiber | 388 |
| Grade 6D Waste | 284 |
| Grade 7D Shorts | 188 |
| Grade 7M Shorts | 108 |
| Grade 7R Shorts | 100 |
| Hooker No. 1 | 1250 |
| Hooker No. 2 | 700 |

## CALIDRIA ASBESTOS

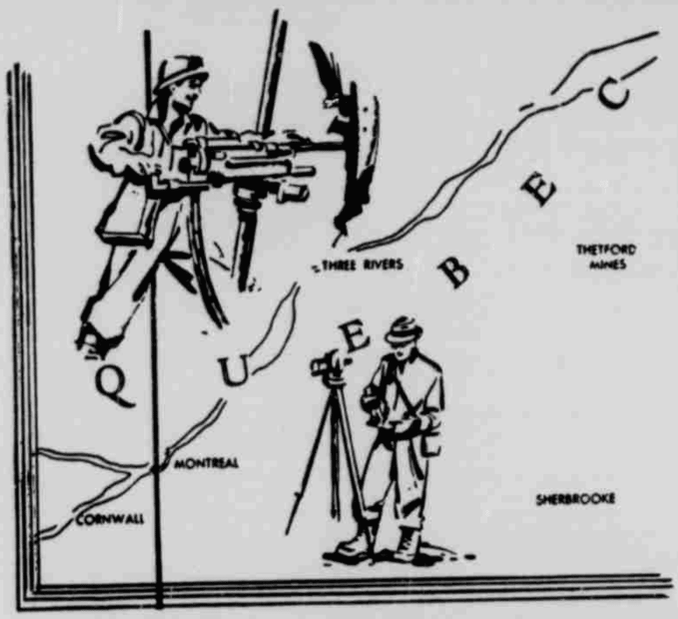
*As of January 1, 1979*

*Per Ton of 2000 Lbs., F.O.B. King City, California*
*U.S. Dollars*

| | | | |
|---|---|---|---|
| SG-103 | Pellets in Bags | Vinyl-Asbestos Floor Tile | $ 118 |
| SG-104 | Pellets in Bulk | Vinyl-Asbestos Floor Tile | 100 |
| SG-130 | Open Fiber in Bags | General | 158 |
| SG-200 | Pellets in Bags | Rubber Tile | 150 |
| SG-210 | Open Fiber in Bags | General | 200 |
| HPP | Pellets in Bags | Rubber Reinforcement | 186 |
| HPO | Open Fiber in Bags | Asphalt | 200 |
| RG-110 | Open Fiber in Bags | Roofing | 220 |
| RG-144 | Open Fiber in Bags | Resin Viscosity Control | 500 |
| RG-244 | Open Fiber in Bags | Resin Viscosity Control | 2200 |


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# THE ASBESTOS MINING SCENE

## CASSIAR COMPLETING MAJOR IMPROVEMENT PROGRAM

The long-range construction program of *Cassiar Asbestos Corporation Ltd.* at its Cassiar, British Columbia, operation is nearing completion and the company is about to start realizing the increased production and economies of operation expected from its commitment of capital funds to the projects involved. More than $77-million has been spent thus far with more than half going to environmental improvements and additional waste mining in the pit on McDame Mountain. Cassiar is currently mining phase seven ore and phase eight peak waste. By October 1980, it is expected the first shovel will move into phase nine waste and by January 1981 the second shovel should also be working there. Chief Engineer Fred G. Hewett points out that phase mining requires meticulous planning of ore and waste scheduling.

Ore handling is an important part of the Cassiar operation. It is moved from the primary crusher at the pit by conveyor to the 15,370 foot aerial tramline system for transport to the mill. Formerly, waste rock was rejected at the pit. Now only 20% of the rock is rejected in the concentrator and 80% goes on to be dried, stored and eventually milled into fiber.

Major changes at the mill have involved alterations to the mill circuitry, an improved sewage and water system for the townsite, a major extension to the powerhouse and new conveyor systems. A 10,000 ton fiber warehouse was completed this year, a 500,000 gallon tank farm will soon be finished and a shrink-wrap system for packing pallets is coming on stream.

The company has also launched a housing expansion program in an effort to change the town of Cassiar from a transient to a more stable community. [The Northern Miner]

## RENEWED PATHFINDER SOQUIEM DISCUSSIONS

According to D. W. Curry, Vice President of *Pathfinder Resources Ltd.*, Canada, discussions have resumed between the company and *Societe Quebecoise d'Exploration Miniere* concerning Pathfinder's asbestos property which lies about five miles southwest of Asbestos in the Eastern Townships of the Province of Quebec. The property is reported to contain an estimated 30-million tons of asbestos-bearing ore averaging 4.37% fiber content. [Northern Miner]

## WOODSREEF ISSUES INTERIM REPORT

The application of *Woodsreef Mines Ltd.* to have its fiscal year-end changed to December 31 has been approved, necessitating the issuance of an interim financial report for the two months of May and June 1979. This report supplements information published in the August 1979 issue of ASBESTOS and contains updated financial figures resulting from the two-month operations. It is noted that the new tailings recovery circuit at Barraba was activated in June and tests indicate it is producting at least 12% additional revenue despite the fact the mill was operating on ore which was 15% lower in value than the average grade ore from this mine.



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ACL Doc 12725 · Page 30 of 52
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# ANNUAL REPORTS—1979

## EVERITE LTD.

Everite Ltd., the South African asbestos mining and manufacturing company controlled by the Eternit group of Switzerland, reported a profit of R9.55-million for the year ended June 30, 1979. This represents an increase of 24.7% from the R7.66-million earned in the previous year. Sales rose from R64.5-million to R78.5-million, a 21.7% improvement over the results for the prior twelve months.

While detailed figures were not made available, the company attributed the increased sales volume to a rise in industrial building activity in the latter half of the fiscal year. Operating income was adversely affected by a reduction in dividends received from the company's unconsolidated asbestos mining interests, the total amounting to R765,000 compared to R1.02-million in the previous year. Higher taxes also took their toll and earnings per share improved only modestly from 28.6¢ to 31.4¢ while dividends paid were 16.5¢ compared to the previous year's 15¢ per share. [Financial Times]

## UNITED ASBESTOS INC.

For the fiscal year ended March 31, 1979, United Asbestos Inc. reported a net profit of $6.76-million or 96¢ per share, slightly less than the $7.14-million earned in the previous twelve months. Revenues for the year were $20.5-million, resulting entirely from the operations of Lac d'Amiante du Quebec Ltee at Black Lake in joint venture with Asarco. The year's substantial earnings enabled the company to apply $5.4-million to repayment of deferred debt relating to its shutdown Midlothian asbestos mine. [The Northern Miner]

In September, United announced it had arranged a $35-million collateral mortgage term loan with Toronto-Dominion Bank. Should this loan materialize, the company would recover possession and control of its assets and the agent for its principal secured creditor, appointed in March 1977 when the company was placed in default, would be removed. United has stated that, under these conditions, it would continue its efforts to reopen the Midlothian mine which was closed when the company was declared in default.

# 1979 HALF-YEAR REPORTS

## ASBESTOS CORPORATION LTD.

Net earnings of Asbestos Corporation Ltd. for the six months ended June 30, 1979, were $8.3-million, or $2.93 per share, compared to $7.2-million, or $2.55 per share earned in the first half of 1978. This increase of 15% in profit was realized on a 37% increase in sales from

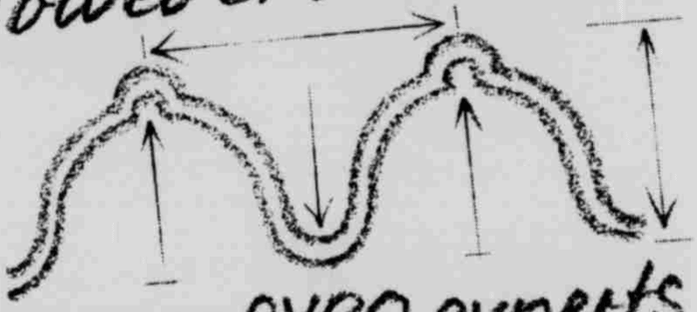


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$62.8-million in 1978 to $86.3-million in 1979.

On August 8, 1979, the Directors declared a dividend of 60¢ per share, payable on September 30, 1979, to shareholders of record September 10, 1979.

The controversy in connection with the Quebec Government's proposed expropriation of the company is continuing in the Quebec courts and an early conclusion seems most unlikely.

## JOHNS-MANVILLE CORPORATION

Johns-Manville Corporation's total revenues for the six months ended June 30, 1979, amounted to $1,061.9-million compared to $783.3-million in the like period of 1978. Net profits for the latest period were $52.7-million versus $59.9-million in the 1978 half-year. After preferred dividends, earnings on the common stock were $1.90 per share in 1979 compared to $2.78 per share in the preceding year.

Reported figures include the results of Olinkraft, Inc., which was acquired in January of 1979. The acquisition accounted for some of the earnings decrease as the cost of financing the purchase exceeded Olinkraft's earnings. Other developments such as disappointing fiber glass insulation sales and rising raw material costs which could not be fully offset by price increases also contributed to the earnings decline.

While demand for pipe products was fairly strong, margins were squeezed by rising raw material costs and spot shortages of PVC resin. Residential and built-up roofing for commercial and industrial buildings improved in the second quarter and non-fiber glass insulation for roofing also showed gains. Excellent six-month results for asbestos fiber were due primarily to strength in overseas construction markets.

Despite the recessionary environment which exists currently, the company looks forward to a relatively good performance for the entire year of 1979.

## SUPRADUR MANUFACTURING CORPORATION

Results of operations for the half-year ended July 1, 1979, showed sales of Supradur Manufacturing Corporation totaled $15-million compared to $11.7-million for the corresponding period in 1978. Net income amounted to $766,797 or 76¢ per share as opposed to $352,011 or 34¢ per share for the first half of 1978. The company's siding and roofing businesses were particularly good in domestic markets although the export business continued to show considerable strength and outlook for the second half is good.

## TURNER & NEWALL LTD.

Despite a 9% increase in sales, after-tax profits of Turner & Newall Ltd. for the first half of 1979 declined 17% from those recorded in the like period of 1978. In 1978, sales to third parties were £270-million and increased to £294.7-million in the most recent interval while, in 1978, profits attributable to stockholders were £9.4-million against the lower figure of £7.8-million in 1979.




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**5 METRE Asbestos Pipe Line, complete**

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**BENTLEY & JACKSON 84" FOURDRINIER 2 PRESS PAPER MACHINE with 12 drying cylinders.**

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**165 ton - 500 ton SILOS complete with control rooms, complete with all necessary pumps and compressor.**

**KOLLARGANG or edge runner type MIXERS, 8' dia. Many complete with auger screw conveyors.**

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Lower trading profits in the U.K. from automotive components and construction materials were only partially offset by improved results from plastics and industrial materials. First quarter profits were hurt by industrial disputes and severe weather conditions but second quarter results were considerably better than those of the preceding year. Overseas profits showed satisfactory gains over the comparable 1978 period.

The company has new PVC and glass insulation plants coming on stream in the near future and second half results are expected to benefit accordingly.

## ASBESTOS STOCK QUOTATIONS

***Close—August 21, 1979***

| | |
|---|---|
| Abitibi Asbestos | C$.75 |
| Advocate Mines | C$2.55 |
| Armstrong Cork | 18¼ |
| Armst Cork (pfd 3.75) | 42 |
| Asarco | 23⅛ |
| Asbestos Corporation | C$42.50 |
| Bendix | 39⅝ |
| Bendix (pfd 3) | 79 |
| Carlisle | 25¾ |
| Cassiar Asbestos | C$12.25 |
| CertainTeed | 18⅛ |
| Charter Conso | pence 128 |
| Colt Industries | 50⅞ |
| Colt Ind (pfd 1.60) | 40 |
| Colt Ind (pfd 4.25) | 109 |
| Conwest | C$6.875 |
| Flintkote | 47 |
| F-kote (pfd-B 2.25) | 62½ |
| GAF | 11⅝ |
| GAF (pfd 1.20) | 16 |
| Gulf & Western | 16¾ |
| G&W (pfd 2.50) | 35¾ |
| G&W (pfd 3.87) | 80 |
| G&W (pfd 5.75) | Bid 66¾ Asked 67¼ |
| IC Industries | 28⅛ |
| IC Ind (pfd 3.50) | 44¾ |
| Johns-Manville | 25⅞ |
| J-M (pfd 5.40) | 62⅞ |
| Kennecott Copper | 25½ |
| Lear Siegler | 22⅞ |
| Lear Siegler (pfd 2.25) | 57¼ |
| McAdam Mining | C$.31 |
| National Gypsum | 22 |
| Pathfinder | C$.405 |
| Porter, H. K. (pfd 5.50) | 75⅜ |
| Raybestos-Manhattan | 31⅜ |
| Rio Algom | C$30.00 |
| Rio Algom (pfd 5.80) | C$78.625 |
| Supradur | Bid 5; Asked 5¾ |
| Union Carbide | 42½ |
| United Asbestos | C$3.50 |
| Walter, Jim | 34 |
| Walter, Jim (pfd 1) | Bid 10½ Asked 10¾ |
| Walter, Jim (pfd 1.60) | 36 |
| Woodsreef Minerals | C$.50 |

**FOR SALE**

**ASBESTOS YARN TEXTILE EQUIPMENT**

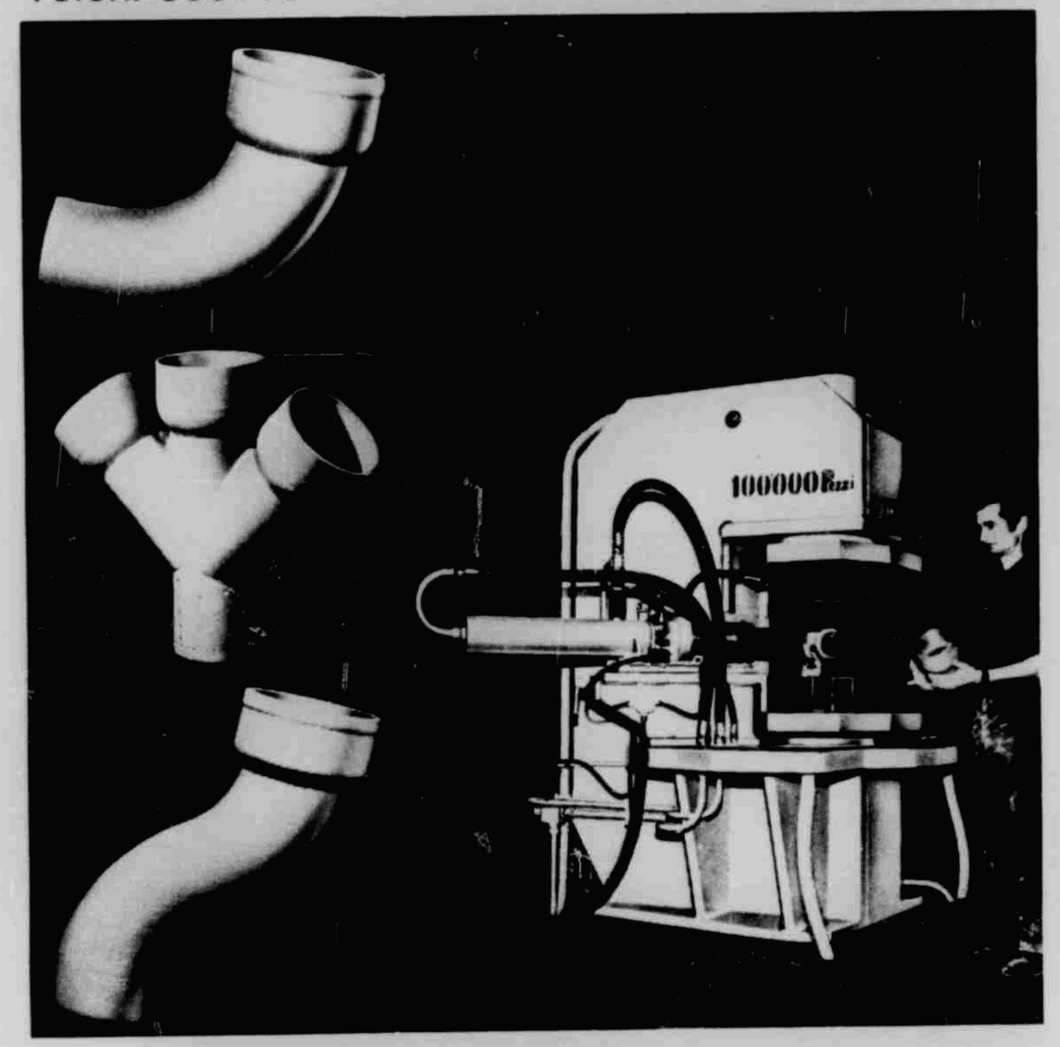
Krupp-Spinnbau Cards Model 1662 and 1663
Krupp-Spinnbau Spinners Model RFAE 80 Spindles
Hacoba Twisters Model ZCL 64 Spindles
Krupp Diablo Mixer Card
Contact: Mr. Evans (203) 371-0101




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## BIRTHDAY GREETINGS to . . .

*Norman Visnes,* Vice President-Mining, Asarco Incorporated, New York City, October 16.

*R. C. Castellani,* Manager, Distribution Center, Atlas Turner Inc., Surrey, British Columbia, October 18.

*Frances E. Mett,* President and Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.

*Monroe Harris,* Senior Vice President, Mining Group, Johns-Manville Corporation, Denver, Colorado, October 22.

*James H. Plummer,* Chairman of the Board, Pars Manufacturing Company, Ambler, Pennsylvania, October 22.

*J. R. Sim,* Personnel Director and a Director, Cape Industries Ltd., London, England, October 30.

*A. T. Reid,* a Director, James Hardie Industries Ltd., Sydney, New South Wales, Australia, October 31.

*James G. Heil,* Manager-Health and Safety, CertainTeed Corporation, Technical Center, Pipe and Plastics Group, Blue Bell, Pennsylvania, November 1.

*Milton Q. Scowcroft,* Director of Marketing, Textile Group, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, November 3.

*L. G. Stopford Sackville,* Chairman, Cape Industries Ltd., London England, November 4.

*Sam E. Brasher,* President, Industrial Products Division, The Celotex Corporation, Jim Walter Corporation, Tampa, Florida, November 5.

*William Maaskant,* Sales Manager, Amatex Corporation, Norristown, Pennsylvania, November 5.

*Dirk Salomons,* Director and President of the Board, Asbest-cementindustrie Asbestona N.V., Harderwijk, Holland, November 5.

*Dr. Robert J. Merrill,* Managing Director, Chrysotile Corporation of Australia Pty Ltd. and a Director, Woodsreef Mines Ltd., Barraba, New South Wales, Australia, November 6.

*Dr. Hilton C. Lewinsohn,* Corporate Medical Director, Raybestos-Manhattan, Inc., Trumbull, Connecticut, November 7.

*Dr. Richard Gaze,* a Director, Technical, Cape Industries Ltd., and Chairman, Cape Asbestos Fibres Ltd., London, England, November 9.

*John A. McKinney,* Chairman of the Board and Chief Executive Officer, Johns-Manville Corporation, Denver, Colorado, November 9.

*Richard O. Moebius,* Textile Mill Superintendent, Raybestos Friction Materials Company, Manheim, Pennsylvania, November 10.

*Monte C. Carpenter,* President and Chief Operating Officer, The Flintkote Company, Irving, Texas, November 12.

*William A. Sells,* Vice President-Production and Engineering, Johns-Manville Corporation, Denver, Colorado, November 12.

*W. B. Callan,* Vice President-Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 14.

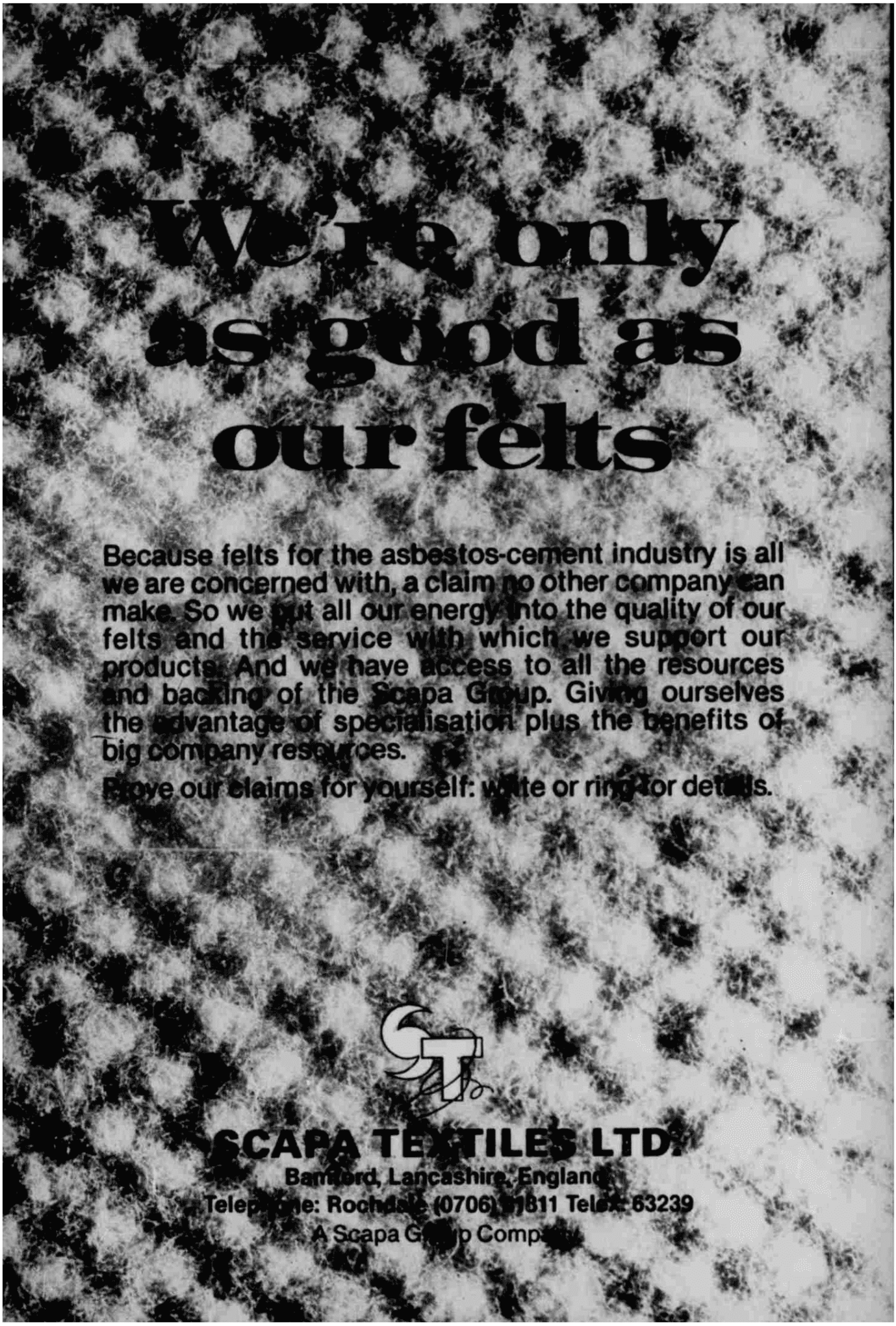
*K. H. Dixon,* Deputy Chairman and Chief Executive, TBA Industrial Products Ltd., Rochdale, England, November 14.

*Dr. Karl V. Lindell, Eng.,* Executive Vice President, Hazemag (Canada) Ltd., Pointe-Claire, Quebec, November 14.

*George L. Romine,* Vice President-Abex and President, Friction Products Group, Abex Corporation, New York City, November 14.



*Asbestos Magazine, 1979, September 1979*
ACL Doc 12725 · Page 38 of 52
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# VALUABLE LITERATURE

EXCEPT WHERE NOTED TO THE CONTRARY, ORDERS FOR THE FOLLOWING MAY BE PLACED THROUGH ASBESTOS MAGAZINE. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY SEPTEMBER 1979 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

*JUSTICE TO THE "SILK" OF MINERAL KINGDOM/ASBESTOS*—A defense of asbestos as a unique and extremely useful mineral to mankind; to quote from a special announcement at the beginning of the literature: "The emotional campaigns portraying asbestos as a potential killer accelerates its substitution by inferior and more expensive manmade mineral fibers. Recent findings appear to indicate that any durable fiber of specific dimension can be considered as a potential tumour hazard. We believe that a legacy of the past obscures great progress made by industry in harnessing the hazards of asbestos. We do not wish to minimize risks involved with the use of this mineral but equally we are convinced that if properly handled this material—asbestos—can serve mankind in many ways and can make great contribution to human safety." [Asbestos Bulletin, March-April 1979; Dr. C. Z. Carroll-Porczynski, Editor; for a copy, contact: Astex Publishing Company, 22/23 North Street, Guildford, Surrey, GU1 4TA, England]

*CHEMICAL INDUSTRIES INFORMATION SOURCES*—Edited by T. P. Peck; guide to the broad range of data available from a variety of disciplines; furnishes information on published materials as well as organizations, agencies and other "live" sources of data on chemical and related industries; "live" sources include federal, state and municipal agencies, professional societies, scientific-technological organizations, research centers, international organizations, etc.; contains chapters devoted to specific industries utilizing or concerned with chemical processes, i.e., agriculture, bioengineering, food engineering, materials, nuclear engineering, paper and pulp engineering and petroleum; offers names of libraries with collections of chemical process data and of publishing firms cited in the guide. [$22.00; 595 pages; Management Information Guide No. 29; Gale Research Company]

*MINERALS, LANDS AND GEOLOGY FOR THE COMMON DEFENCE AND GENERAL WELFARE, VOLUME I*—By M. C. Rabbitt; first book in a four-volume series to provide a comprehensive history of the U.S. Geological Survey; focuses on the years and events prior to the establishment of USGS (March 3, 1879); places the evolution of the earth sciences and mapping in the broad context of U.S. history and economic development and the shaping of national policies; written to help the general reader understand the ways of science and scientists in a federal bureau. [$6.00; order directly from the USGS Branch of Distribution, 1200 South Eads Street, Arlington, Virginia 22202]

*EQUIPMENT LEASING/LEVERAGED LEASING*—Edited by B. E. Fritch and A. F. Reisman; chapters are concerned with drafting and negotiating the equipment lease, equipment leasing from the lessee's viewpoint, leveraged leasing, tax aspects and economics, leasing and the Uniform Commercial Code, product liability for the equipment lessor, the lease as



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collateral, the Bankruptcy Act, peripheral problems and the operation and management of a bank-affiliated leasing company [$60.00, 907 pages; Practising Law Institute]

*RULES & REGULATIONS*—Compilation of 50 state administrative procedures acts; includes a summary of each state's law governing regulatory activity, as well as the law itself; permits determining if a state provides for legislative veto or cost-benefit analysis; gives each state's requirement for advance public notice of proposed rulemaking. [$95.00; Federal-State Reports, Inc.]

*RESEARCH CENTERS DIRECTORY, SIXTH EDITION*—Edited by A. M. Palmer; contains 6268 active sources of advanced knowledge in hundreds of fields; lists research institutes, centers, foundations, laboratories, bureaus, experiment stations and similar nonprofit research facilities in the United States and Canada; each entry furnishes data about the research unit including formal name, name of parent institution, address, telephone number, name of director, year founded, sources of support, annual budget, principal fields of activity, publications and special library facilities. [$85.00; 1121 pages; Gale Research Company]

*CHEMICAL, POLYMER AND FIBER ADDITIVES FOR LOW MAINTENANCE HIGHWAYS 1979*—Edited by G. C. Hoff; reviews available data on a broad spectrum of materials evidencing promise of improving the characteristics of paved roadways; within the 15 chapters are discussions on the freeze and thaw resistance of asbestos asphalts and fiber-reinforced concrete, including asbestos. [$36.00; 634 pages; Noyes Data Corporation]

*TOXIC SUBSTANCES CONTROL III*—Proceedings of the Third Toxic Substances Control Conference held December 1978; analyzes the legal and institutional problems which manufacturers and processors must confront to comply with the Toxic Substances Control Act; contains published works of leading authorities from government and industry. [$25.00; 264 pages; Government Institutes, Inc.]

*ASBESTOS WASTE MATERIALS*—Third Recommended Control Procedure issued by the Asbestos International Association; discusses types of asbestos waste, collection (of fine dust, loose fiber, wet waste, etc.), labeling, isolation and disposal. [Available from the Asbestos International Association, 68 Gloucester Place, London W1H 3HL, England]

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**International asbestos-cement review**




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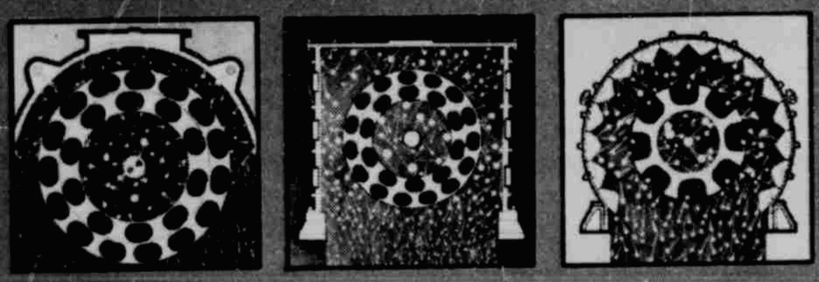
**Liberation:** Stedman Cage Mills free valuable embedded particles by selectively crushing materials of various hardnesses, specific gravities, or friability. Desirable and undesirable materials can then be mechanically separated.

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## ENVIRONMENTAL POLLUTION/CONTROL REPORTS

[ORDERS FOR THE FOLLOWING SHOULD BE PLACED WITH NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VIRGINIA 22161; INCLUDE PAYMENT WITH ORDER, IN U.S. FUNDS.]

*ASBESTOS IN COOLING TOWER WATERS*—Argonne National Laboratory; ANL/ES-63; $6.00.

*ASBESTOS AND SILICATE POLLUTION, VOLUME 1, 1964-1976*—Citations from the NTIS Data Base; NTIS/PS-78/1243/1WP; $28.00.

*ASBESTOS AND SILICATE POLLUTION, VOLUME 2, 1977-November 1978*—Citations from the NTIS Data Base; NTIS/PS-78/1244/9WP; $28.00.

*ASBESTOS AND SILICATE POLLUTION*—Citations from the Engineering Index Data Base; NTIS/PS-78/1245/6WP; $28.00.

*ASBESTOS: A PERSPECTIVE, AN OVERVIEW, AN ANNOTATED LITERATURE COLLECTION 1960 TO 1974, LITERATURE COMPILATION 1974 TO 1977*—Toxicology Information Response Center; ORNL/TIRC-77/5; $28.00.

*ASBESTOS IN THE WATER SUPPLIES OF THE TEN REGIONAL CITIES, PART 1*—Walter C. McCrone Associates, Inc.; PB-252 620/OWP; $5.25.

*ASBESTOS FIBER CONCENTRATIONS IN THE DRINKING WATER OF COMMUNITIES USING THE WESTERN ARM OF LAKE SUPERIOR AS A POTABLE WATER SOURCE*—EPA Central Regional Laboratory; PB-263 679/3WP; $3.50.

*SAFETY AND HEALTH IN AUTO BODY REPAIR SHOPS, GOOD PRACTICES FOR EMPLOYEES*—NIOSH Division of Technical Services; PB-276 677/2WP; $4.50.

*IDENTIFICATION OF ASBESTOS-TYPE MATERIALS IN SUSPENDED SOLIDS*—Tennessee University Water Resources Research Center; PB-277 349/7WP; $6.00.

*THERMODYNAMIC DATA ON THE AMPHIBOLE ASBESTOS MINERALS AMOSITE AND CROCIDOLITE*—U.S. Bureau of Mines Albany Metallurgy Research Center; PB-278 519/4WP; $4.00.

*DEVELOPMENT OF SCANNING ELECTRON MICROSCOPY FOR MEASUREMENT OF AIRBORNE ASBESTOS CONCENTRATIONS*—Franklin Institute Research Laboratories; PB-279 617/5WP; $6.00.

*SPRAYED ASBESTOS-CONTAINING MATERIALS IN BUILDINGS: A GUIDANCE DOCUMENT*—GCA Corporation Technology Division; PB-280 376/5WP; $6.50.


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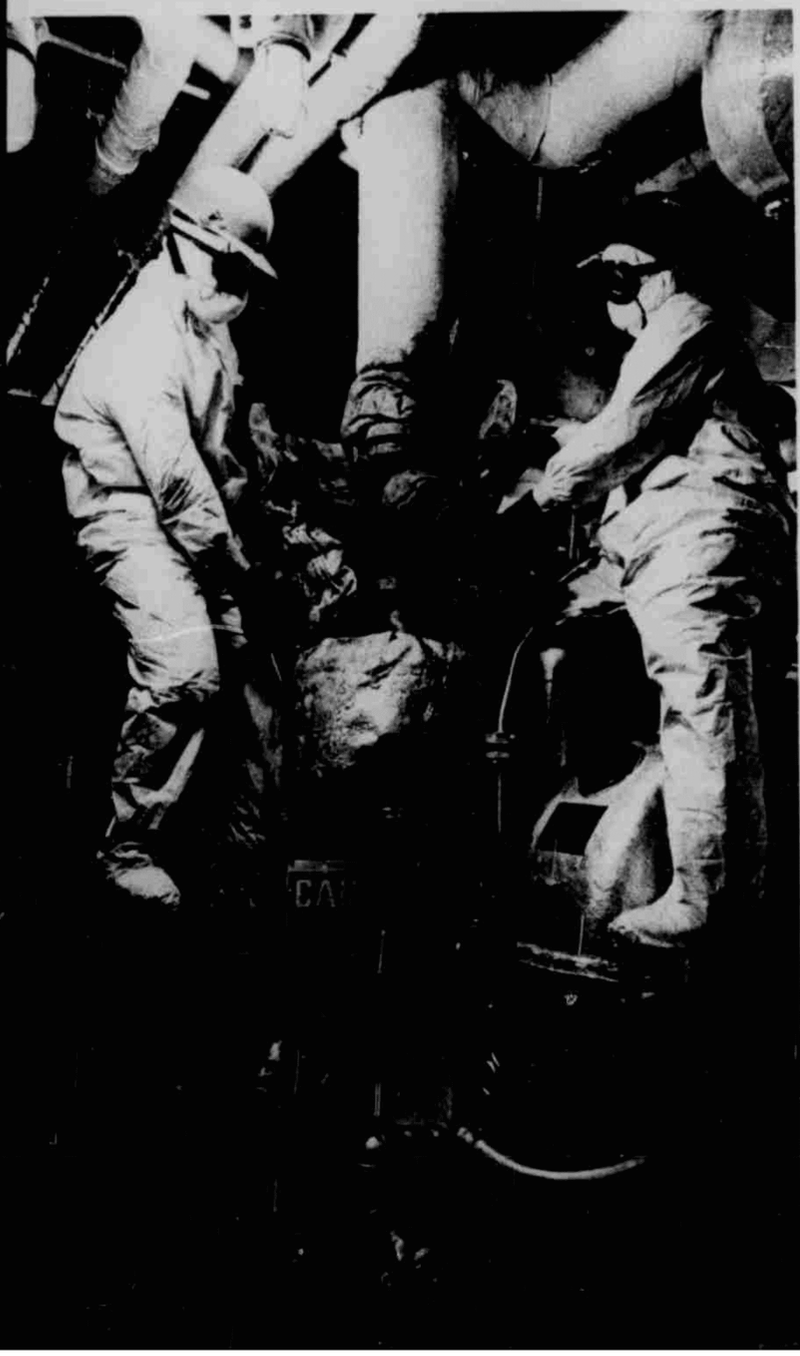

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# TYVEK guards against asbestos dust and particles while it cuts troublesome clothing maintenance.

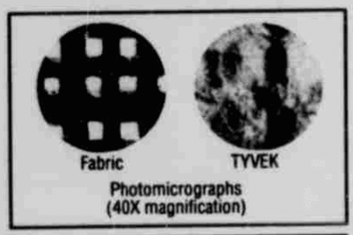
Disposable protective coveralls of Du Pont TYVEK* spunbonded olefin provide workers with an effective barrier against hazardous particulate matter.

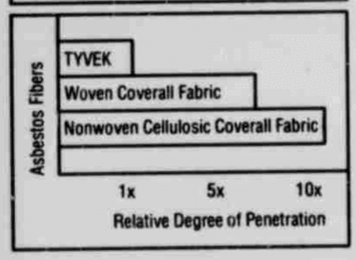
As the photomicrographs and chart below show, the unique nonwoven construction of TYVEK results in a barrier that is several times superior to conventional fabric for asbestos holdout. Coveralls of TYVEK are used by the U.S. Navy in asbestos "ripout" operations under OPNAVINST 6260.1A.

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*Du Pont registered trademark. Du Pont makes TYVEK, not garments.




DU PONT


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# CALENDAR OF EVENTS

*OPTICAL SOCIETY OF AMERICA*—1979 Annual Meeting; Genesee Plaza Holiday Inn and Americana, Rochester, New York, *October 8-12.*

*ENVIRONMENTAL LAWS AND REGULATIONS*—Conducted by Government Institutes, Inc.; Introductory Course, Atlanta, Georgia, *October 11-12;* Masters' Seminar, Washington, D. C., *November 15-16*

*LITIGATING AN ANTITRUST CASE*—Presented by Practising Law Institute; New York City—*October 11-12;* San Francisco, California—*November 19-20.*

*67TH ANNUAL NATIONAL SAFETY CONGRESS/EXPOSITION*—An event of the National Safety Council, Chicago, Illinois, *October 15-18.*

*FLUID SEALING ASSOCIATION*—1979 Fall Meeting; Canyon Hotel, Palm Springs, California, *October 16-19.*

*SOCIETY OF MINING ENGINEERS OF AIME*—Fall Meeting and Exhibit; Community Center, Tucson, Arizona, *October 17-19.*

*THE 1979 TRADE ACT*—Briefing presented by Executive Enterprises, Inc.; New York City—*October 18-19;* San Francisco, California—*October 29-30.*

*MINE PERSONNEL MANAGERS*—Short Course sponsored by the Mackay School of Mines; University of Nevada, Reno, Nevada, *October 21-23.*

*TRANSPORT AND HANDLING OF MINERALS*—3rd International Symposium of World Coal and World Mining; Vancouver, British Columbia, October 21-24.

*ENVIRONMENTAL POLICY AND MANAGEMENT*—Cosponsored by the School of Public Health and the John F. Kennedy School of Government; Harvard University, Boston, Massachusetts, *October 21-November 9.*

*OCCUPATIONAL HEALTH CONFERENCE*—Held by the American Industrial Hygiene Association; Hilton Hotel, Seattle, Washington, *October 24-26.*

*CURRENT TRENDS IN DOMESTIC AND INTERNATIONAL LICENSING OF TECHNOLOGY*—Presented by Practising Law Institute; New York City—*October 25-26;* San Francisco, California—*November 8-9.*

*TOXIC SUBSTANCE CONTROL*—Seminar of the Toxic Substance Control Laboratory and the Center for Environmental Quality Management; Vanderbilt University, Nashville, Tennessee, *October 29-November 2.*

*2ND INTERNATIONAL MINE VENTILATION CONGRESS*—Sponsored by Mackay School of Mines; University of Nevada, Reno, Nevada, *November 4-8.*

*PROFESSIONAL DEVELOPMENT SEMINARS*—To be held at McGill University, Montreal, Quebec; Principles and Practices of Ground Control—*November 5-17;* Blasting Systems—*November 19-23.*

*ASBESTOS/PUTTING THE LEGISLATION INTO PRACTICE*—A seminar of McCrone Research Institute Ltd.; Sudbury Conference Hall, London, England, *November 9.*

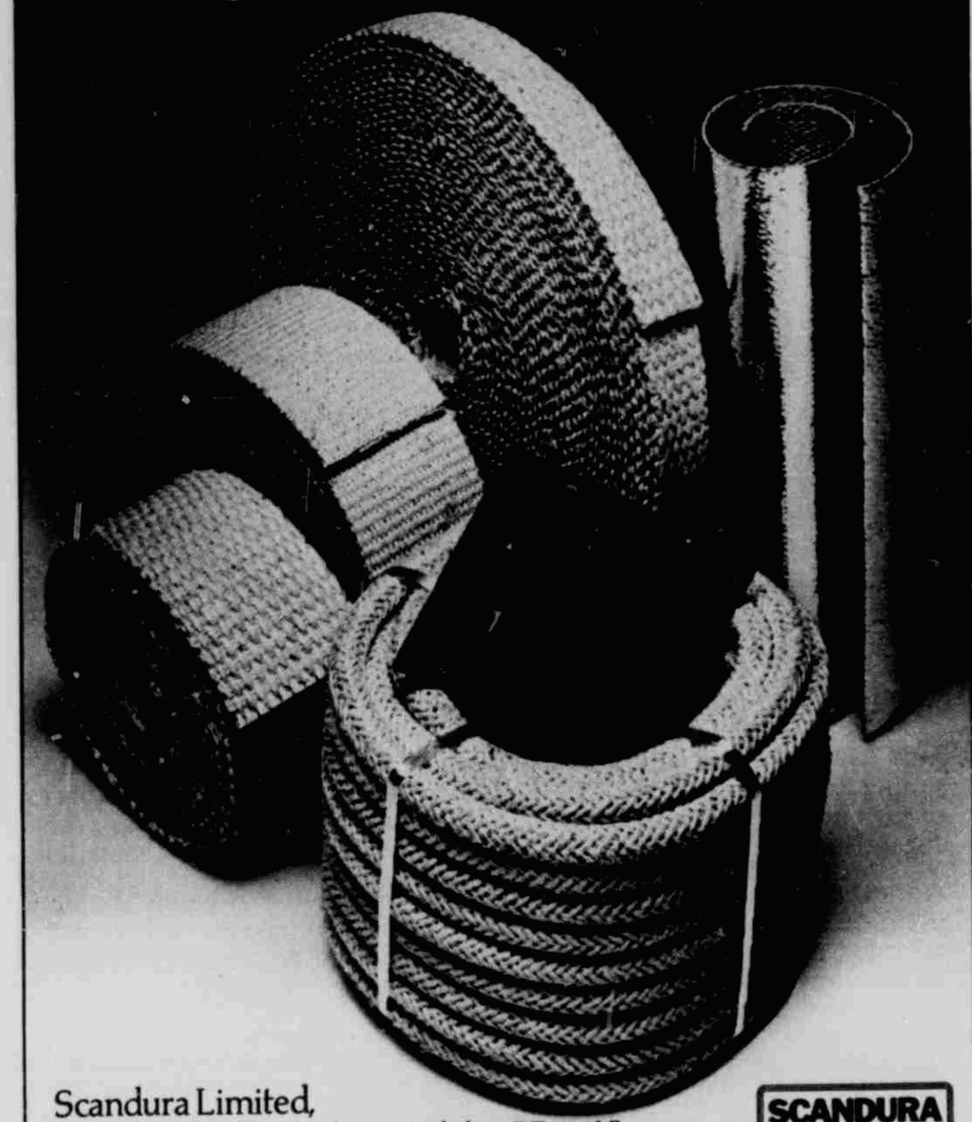
*INDUSTRIAL HYGIENE CHEMISTRY*—A course of the Rocky Mountain Center for Occupational and Environmental Health; University of Utah, Salt Lake City, Utah, *November 12-16.*

*4TH INTERNATIONAL CONFERENCE ON ASBESTOS*—Will cover economic geology, geology and mineralogy, chemistry and physics, mining, recovery and refining, industrial uses, quality control and environmental aspects; Torino, Italy, *May 26-30, 1980.*



Asbestos Magazine, 1979, September 1979
ACL Doc 12725 · Page 46 of 52
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# Remember When?

## (AUGUST 1929 ASBESTOS)

New Advertisers: Concentric Air Cells Automatic, Inc., Philadelphia, Pa.
Walter A. Rukeyser, New York City
Rubber & Asbestos Corporation, Jersey City, N. J.

This issue contained pictures of Arthur Farragut Townsend, Chairman, and Sumner Simpson, President, of the newly formed Raybestos-Manhattan, Inc. It also named the following officers who would serve under Messrs. Townsend and Simpson: Vice Presidents, H. M. Green, S. R. Zimmerman and George R. Weber; Secretary, Morton M. Judd; Treasurer, F. L. Curtis; and Assistant Treasurer, W. H. Dunn.

A short article described a new machine designed to eliminate much of the hand labor previously involved in manufacturing asbestos aircell pipe covering which was the long-established, standard insulation for low pressure steam and hot water piping.

Asbestos Corporation Limited reported the resignation of R. P. Doucet as Manager of the Corporation. No replacement had been named. J. E. Triganne, Sales Manager, had been placed in full charge of the Corporation's sales in American, European and Asiatic territories. Captain J. G. Ross, a well known consulting mining engineer, was appointed Consulting Engineer and Assistant to the President of the company.

Walter A. Rukeyser, Mining Engineer, severed his connection with the Regal Asbestos Mines, Inc., established his own consulting organization in New York City and was already engaged in design work for the USSR and for certain operations in India and in California.

## (SEPTEMBER 1929 ASBESTOS)

New Advertiser: Central Asbestos Mines of S.A. Ltd., Johannesburg

This issue reported the untimely death of L. B. McMillan, General Consulting Engineer for Johns-Manville Corporation, who was killed in the crash of his own airplane near Newark, New Jersey. Mr. McMillan was primarily engaged in research and development work on heat insulating materials.

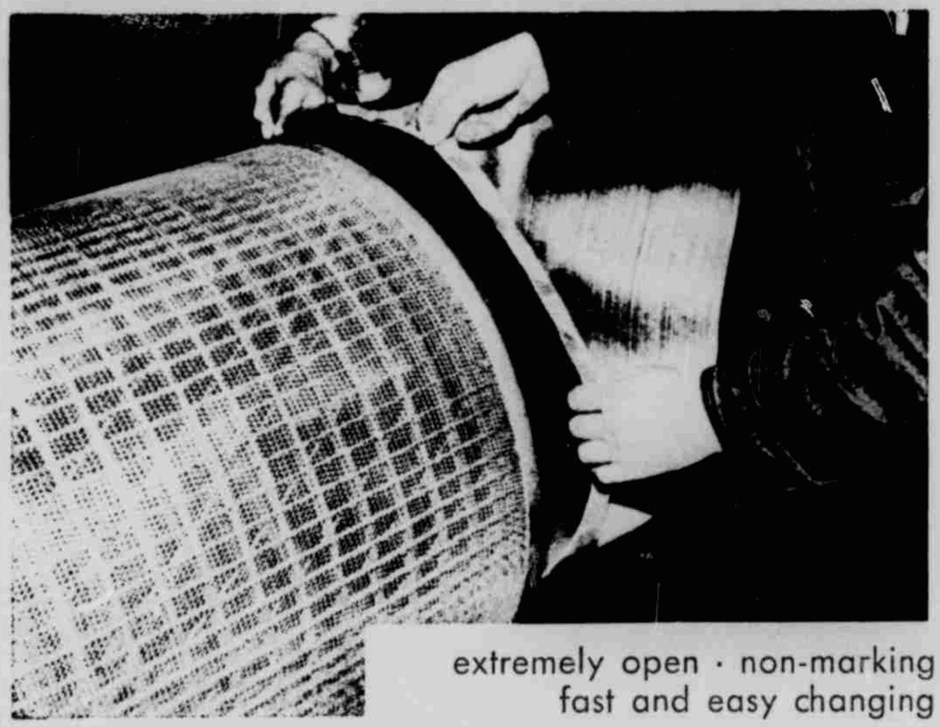
A short article described the founding and growth of Powhatan Mining Corporation, a leading U.S. producer of asbestos filter fibers. Founded and operated by Fred A. Mett, the company obtained amphibole asbestos from its own mine in Harford County, Maryland, and processed it in a plant at Woodlawn, a section of Baltimore.

A report on the asbestos-cement industry in Yugo-Slavia was included in this issue. Using Portland cement of its own manufacture and asbestos fiber imported from most of the producing countries, the "Spalato" Asbestos Cement Company was producing about ten-million square yards of asbestos-cement products per year, of which some 70% was being exported to destinations all over the world.



*Asbestos Magazine, 1979, September 1979*
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# We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

We want our customers to continue taking advantage of the unique properties of asbestos. Too often, their ability to do so is hindered by decisions based on emotion rather than factual information. So we're calmly and repeatedly explaining the facts about asbestos-containing products in a series of full page, four-color ads, appearing regularly in the industrial edition of *Business Week*.

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. And once "locked in," the release of asbestos into the environment will not be significant during normal product use.

Our investment in advertising is not nearly as large as that directed toward developing safer ways to ship, handle, and use asbestos. But in many ways, it's equally important. We think it's part of our job as the world's leading producer of asbestos. And part of our continuing commitment to the future of asbestos.


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# When our asbestos is used in the manufacture of pipe products, it becomes 'locked in'. So our customers can keep on using it.

Asbestos is an important component in one out of every four feet of underground water and sewer pipe installed today in the United States. These pipes, and an extensive range of other finished products, contain asbestos that is "locked in" by cement, asphalt, rubber, latex, or other binders, to provide environmentally safe materials. Once "locked in," the release of asbestos into the environment will not be significant during normal product end use.

As a result, our customers can continue taking advantage of the unique properties of asbestos. In thousands of asbestos-containing products, asbestos serves an essential function that has not been duplicated on a cost-performance basis.

While EPA and OSHA have established standards that limit the amount of airborne asbestos generated during production or fabrication of a product in factory or on site, there are virtually no hazards associated with the proper end use of finished products where the asbestos is "locked-in."

As one of the world's leading suppliers of asbestos, we at Johns-Manville are vitally concerned with helping our customers meet these standards. On any problem anywhere, we're ready to help.

We have years of experience in creating systems that effectively and economically control asbestos dust generated in the handling of asbestos fiber and in the machining and fabricating of products containing asbestos. Our experience can help you to eliminate or substantially reduce employee exposure to asbestos.

For example, we package asbestos in pulpable bags that are added directly to the mix where they disperse along with the asbestos. Other bags can be opened automatically with dust-controlled equipment.

In shipping, we utilize damage-free bulkhead rail cars and shrink-wrapped palletized units to help prevent damage during shipment and storage. We're also developing new methods of shipping such as high-density fiber blocks and other innovations that will help maintain dust-free environments and make it easier to handle asbestos safely.

We'd like to help. For more information on the safe handling of asbestos, write on your company letterhead to Jim Reis, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, CO 80217.

JM

**Johns-Manville**


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# Carey Canadian started to mine its own business in 1918.



Carey Canadian started in the Asbestos Business back in 1918 when Philip Carey came to Quebec to mine Chrysotile Asbestos. Since then, we've become one of the largest, most trusted producers of quality asbestos.

Since 1918, we haven't lost sight of the three principles that Philip Carey set down so many years ago. He stressed economy in mining and milling, endless research to assure quality and uniformity and customer service...which brings us to you. We promise the right grade of asbestos for your product, give good service and the maximum savings possible.

Give your Carey Canadian man a call today. He'll stand by you from drawing board to delivery date. He has to. Tradition demands it.

**Carey Canada Inc. ... one of the largest, most trusted producers of Chrysotile Asbestos.**

**a Jim Walter company**

CAREY
ASBESTOS FIBRE

Carey Canada Inc. • P.O. Box 190 • East Broughton Station, P.Q. • Canada G0N 1H0
Phone: (418) 426-3050 • Telex: 05-834 554 CAREYMINE EABR • Cable: CARMINES EASTBROUGHTONPO

UNITED STATES • ATLANTA, Thompson-Hayward Chem. Co. • BIRMINGHAM, Thompson-Hayward Chem. Co. • BOSTON, Wm. D. Egleston Co., Inc. • BROOKLYN, Empire Ace Insulation Mfg. Corp. • BUFFALO, Commercial Chemicals Inc. • CHICACO, Daniel G. Hereley Co. • CLEVELAND, Donald McKay Smith, Inc. • DALLAS, Thompson-Hayward Chem. Co. • DENVER, Thompson-Hayward Chem. Co. • DETROIT, A. E. Fleming Co. • HOUSTON, Thompson-Hayward Chem. Co. • KANSAS CITY, Thompson-Hayward Chem. Co. • LITTLE ROCK, Thompson-Hayward Chem. Co. • LOS ANGELES, John K. Bice Co. • MEMPHIS, Thompson-Hayward Chem. Co. • MIAMI, Thompson-Hayward Chem. Co. • MINNEAPOLIS, Thompson-Hayward Chem. Co. • NASHVILLE, Thompson-Hayward Chem. Co. • NEW ORLEANS, Thompson-Hayward Chem Co. • NEW YORK, Smith Chemical & Color Co., Inc. • OKLAHOMA CITY, Thompson-Hayward Chem. Co. • PHILADELPHIA, George A. Rowley & Co., Inc. • PITTSBURGH, McCann-Shields Paint Co. • PORTLAND, OR. Chemical Distributors, Inc. • SAN FRANCISCO, Carmona Chemical Co. • ST. LOUIS, Thompson-Hayward Chem. Co. • TAMPA, Thompson-Hayward Chem. Co. • TRENTON, H. M. Royal, Inc. • TULSA, Thompson-Hayward Chem. Co. • CANADA • HAMILTON, Canada Colors & Chemicals, Ltd. • MONTREAL, Canada Colors & Chemicals, Ltd. • TORONTO, Canada Colors & Chemicals, Ltd. • VANCOUVER, Canada Colors & Chemicals, Ltd.


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