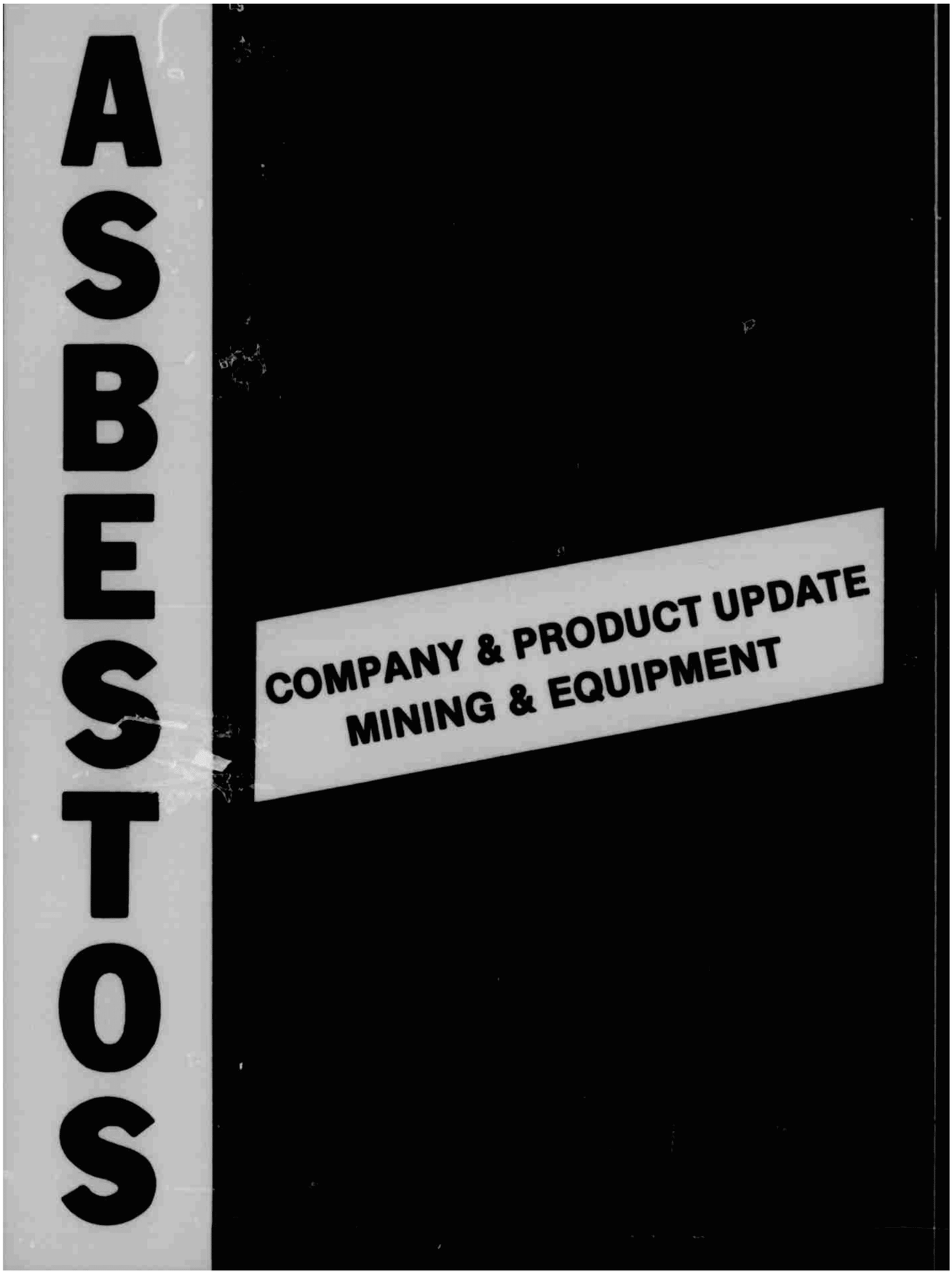

ASBESTOS
COMPANY & PRODUCT UPDATE
MINING & EQUIPMENT

We're helping industry use asbestos wisely 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 *Industry Week* and 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. This ad lets them know that by following certain practices, asbestos can be handled and processed safely.

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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Asbestos is not a problem when handled properly.

You can do something about it.

In thousands of finished products, asbestos serves an essential function that has not been duplicated on a cost performance basis. Like other naturally-occurring minerals, asbestos can be a potential health hazard when inhaled. However, with technological advances and established work practices, along with industry and Federal regulations, it can be safely processed, transported, and handled. In addition, there are virtually no hazards associated with the proper end use of products in which the asbestos fibers have been encapsulated or "locked-in" by environmentally safe binders. For this reason, we advocate the elimination of its use in friable products in which it cannot be safely bound. As the world's leading asbestos supplier, we are vitally concerned with its safe handling and application.

For more information, please write to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, Colorado 80217.



Use of personal protective equipment provides increased safety for a variety of work situations.



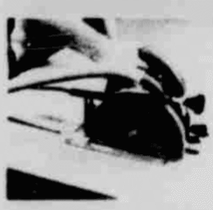
Floors and all work surfaces should be kept free of fiber accumulations by using industrial vacuum cleaners equipped with proper exhaust filters. Asbestos should be vacuumed, never swept.



Fiber handling technology has evolved a diverse range of special packaging to assure safer handling and shipping.



Totally enclosed, negative pressure automatic bag openers facilitate in-plant dust control.



Fabrication tools require proper hooding and should be connected to a source of exhaust air that includes a fabric bag filter. When practical, wet cutting should be employed.

JM Johns-Manville

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ASBESTOS

VOLUME 62 AUGUST 1980 NUMBER 2

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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COMPANY/PRODUCT UPDATE

THE CAPE GROUP

As of January 1, 1980, *Cape Investments S.A.* became the local holding company for the three Cape manufacturing companies at Benoni, in the Transvaal, Republic of South Africa. Capil Insulation Products now embraces all production of thermal insulation products and materials and of Capil electric panel heaters. Don International manufactures a complete range of Don brake linings, pads and clutch facings. Cape Contracts undertakes major industrial thermal insulation and painting contracts throughout the Republic and in neighboring countries.

Congratulations have been pouring into *Cape Boards and Panels Ltd.* since it was announced on April 21, 1980, that the company had been awarded The 1980 Queen's Award for Technological Achievement. With the Cape name having been founded on asbestos mining and product manufacture, the award is particularly significant in that it is for technological achievement in developing a new range of noncombustible, asbestos-free boards and panels. Cape Boards commenced its search for a suitable alternative to asbestos some ten years ago. Research led to a board-type material based on calcium silicate and reinforced with selected natural organic fibers and mineral fillers. The formula has proved tremendously successful and the technology has since been developed to embrace a comprehensive range of boards. Cape Marine Board, the first of the new range, is now used by shipyards in more than 50 countries in the construction of fireproof bulkheads and ceilings in ships and oil rigs. Other newly-developed, asbestos-free materials include Monolux, Supalux, Vermiculux, Masterboard and Masterclad.

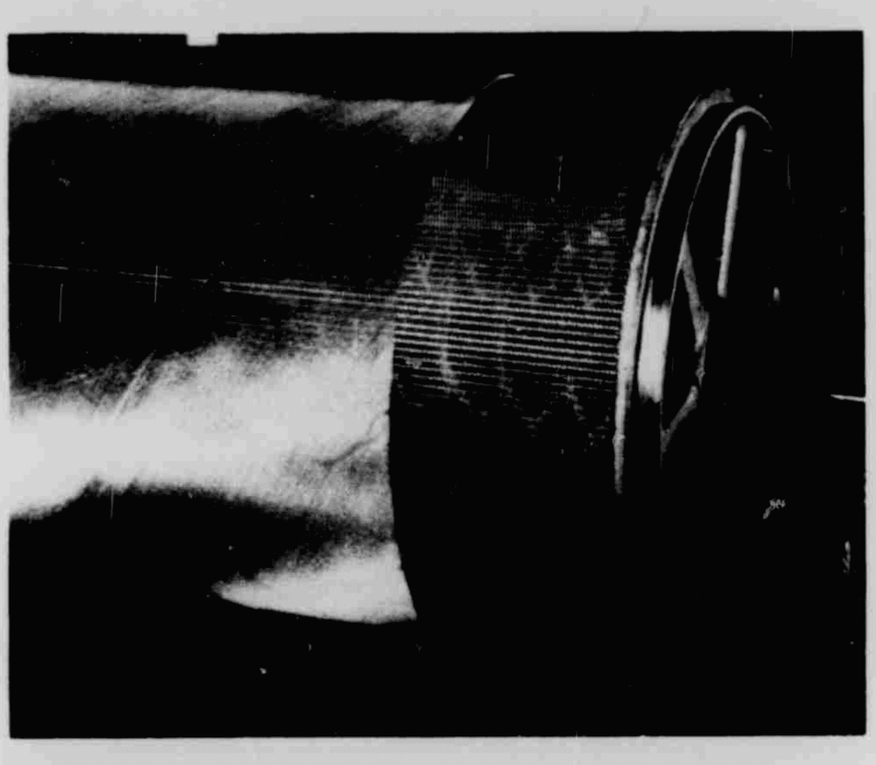
NEWS FROM TURNER & NEWALL

Agreement in principle has been reached between *Turner & Newall Ltd.* and French industrial interests for the acquisition of T&N's 82% interest in *Dagard et Fils SA*, Boussac, France, a manufacturer of cold store panels. Agreement was also reached in principle for the acquisition by T&N of all the share capital of *Sibex (Constructions) Ltd.* Sibex provides techniques which enable leaks in the flanges of process system lines to be sealed without the process plant being shut down.

The businesses of *Engineering Components Ltd.*, a T&N subsidiary, have been reorganized into three independent operating companies. Payen International will be responsible for the manu-

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facture and marketing of automotive gaskets and cork and cork-rubber products. Gaskets with petrochemical and industrial applications and bolt tensioning equipment will be handled by Flexitallic Gaskets. Coopers Filtration will be responsible for automotive and industrial filtration products.

TAC Construction Materials Ltd. has a range of asbestos-cement internal lining products, called Tacliners, designed for use as part of insulated double cladding systems for industrial and agricultural buildings. On site fixing costs are minimized since there is no need for additional supporting frames or tees.

A non-asbestos millboard, from *TBA Industrial Products Ltd.*, is said to come closer to replacing standard commercial asbestos millboard than other products. Firefly 800 has a tensile strength of 4 megapascals and flexural strength of 7 megapascals and it can provide the same structural strength as thicker competitors. The board consists of inorganic fibers and inert fillers bonded together to produce a board with properties similar to asbestos millboard, but with higher flexural strength. It has a density of 64 pounds per cubic foot and is heat resistant to 1830°F. Its wide range of industrial applications includes gaskets for high temperature-low pressure uses.

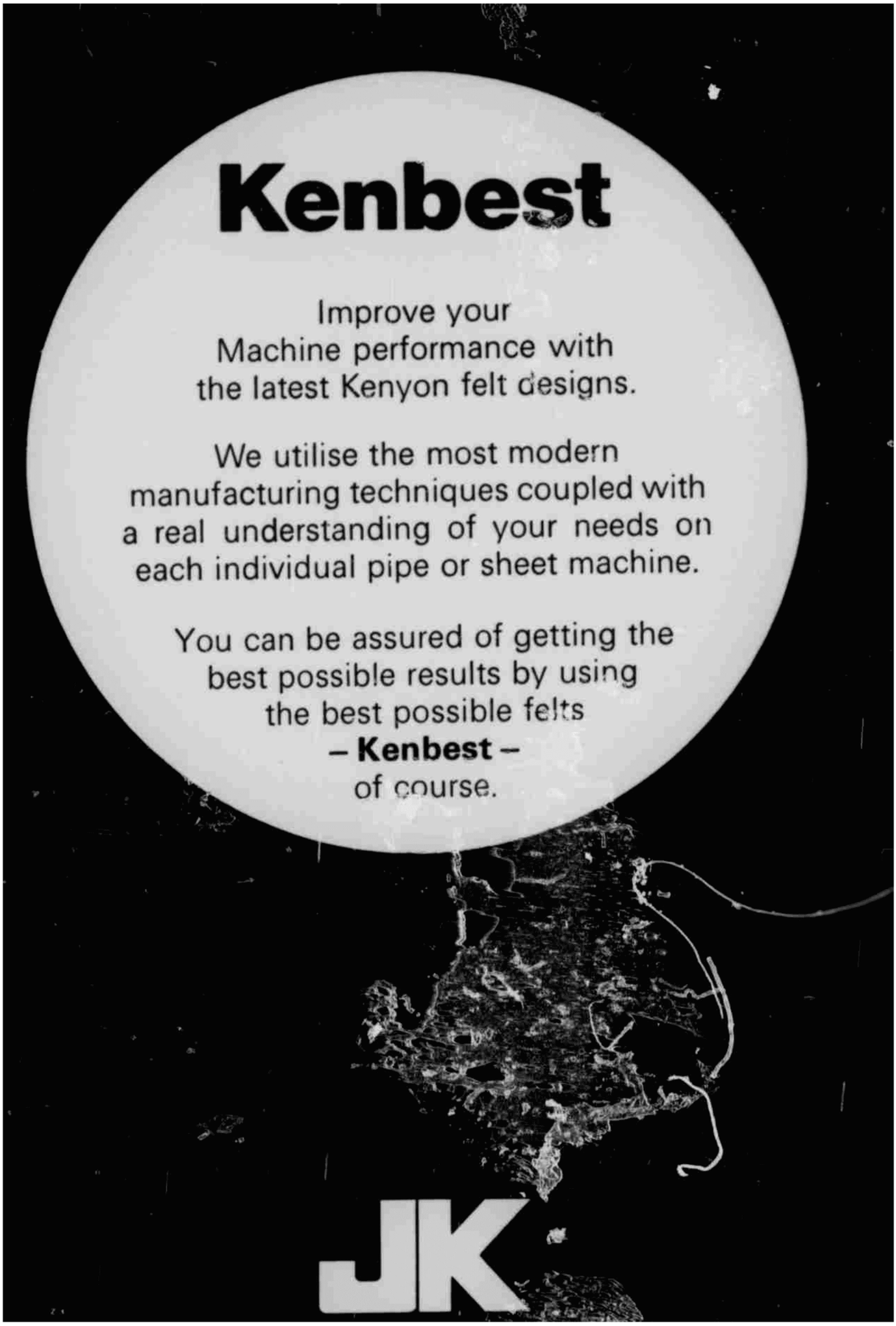
TUBES FROM RECYCLED BAGS

Eternit-France has developed a process for recycling polyethylene asbestos bags which are used as raw material to make tubes of various diameters for electrical cabling and wiring. Since June 1979, the company has been recycling all the polyethylene bags it receives with asbestos deliveries originating in Canada and the Soviet Union, which represents an annual volume of 300 to 500 tons of bags. Instead of being piled at dumps or simply discarded, the empty bags constitute a valuable and inexpensive raw material in the manufacturing of a product for which there is a high demand. [QAMA Bulletin]

CELOTEX ROOF INSULATION

The Celotex Roofing Products Division of Jim Walter Corporation announced it is producing five different rigid board insulations to meet any roof insulation need, code requirement and principal fire insurance classification. Celotex Thermax roof insulation is a strong, lightweight board consisting of asphalt-saturated asbestos facers integrally laminated to both sides of an isocyanurate foam core which has been reinforced with glass fibers for dimensional stability. Tempchek is approved for use in the construction of

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CELOTEX—CONTINUED

Class A built-up roof coverings. Its polyurethane foam core, reinforced with glass fibers, is sandwiched between facers of asphalt-saturated roofing felt. Tempchek Plus, a composite board, is composed of a ¾" base layer of perlite, a core of polyurethane foam and a top facer of asphalt-saturated roofing felt. The principal ingredient of Celo-Therm is perlite, or expanded volcanic glass, combined with organic fibers and binders. Celotex Fiberboard is a uniform density board composed of interlocking wood and cane fibers impregnated with asphalt for added strength and moisture resistance.

NEW RAYBESTOS CLUTCH FACING

Continuing its effort to eliminate asbestos from its products, *Raybestos-Manhattan, Inc.*, recently introduced an asbestos-free clutch facing known as Cam-Lok. According to R/M, the product has all the frictional qualities which made its predecessor, the Raybestos Vee-Lok facing, the standard of the industry. The new facings have undergone extensive dynamometer and in-vehicle tests with exceptional results and are now being supplied to customers in the original equipment and replacement markets.

ASBESTOS FELTS FROM J-M

Via Data Sheet BU-416, *Johns-Manville Corporation* details the advantages gained from using #18 asbestos finishing felts. Primary benefits highlighted are elimination of the need for a base sheet on non-nailable decks; reduction of blistering potential; less application time and labor; and easy handling.

NO GROWTH FOR PIPE

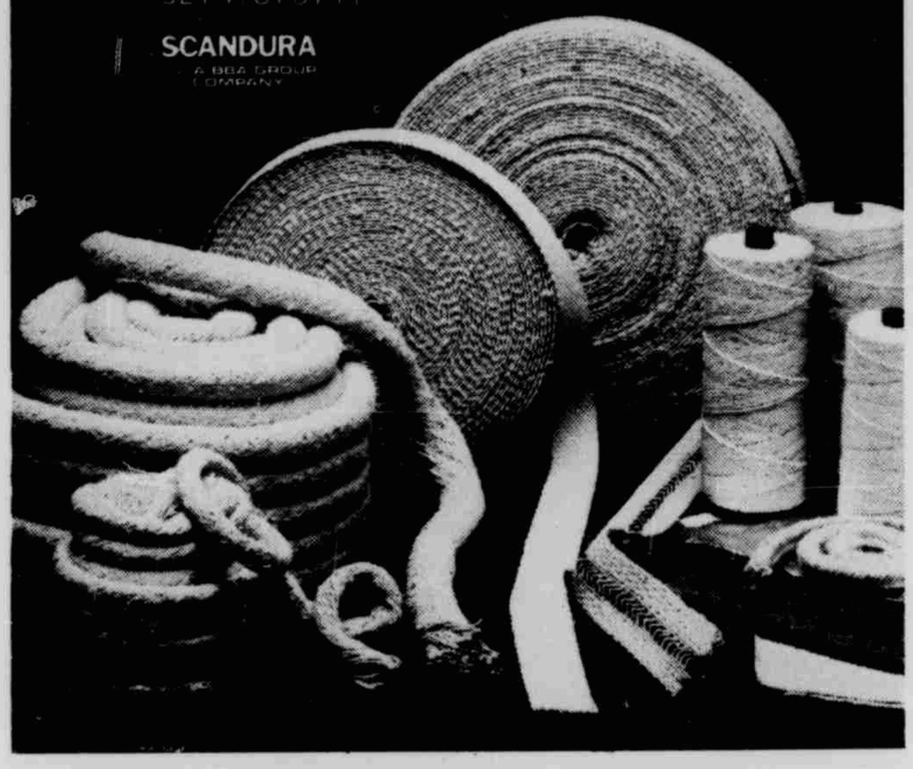
In terms of constant dollars, *Business Communications Company, Inc.*, Stamford, Connecticut, foresees almost zero growth through 1985 for the entire pipe industry. It further predicts negative real growth for many types of pipe except for plastic pipe which should experience a 14% growth rate in current dollars, equivalent to about 6% per year in real terms. The plastic pipe market now represents 11.1% of the total market and by 1985 should approach 15%. The leading plastic material is and will continue to be polyvinyl chloride. Reinforced plastic pipe is also expected to display an interesting growth pattern, mostly in larger diameter chemical and corrosion resistant uses. BCC reports a negative growth market for asbestos-cement pipe because of

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several environmental/health constraints and because plastic pipe is often a good substitute.

A/C USES LESS ENERGY

Schape Associates, Manchester, England, issued a report of a survey which was taken to compare, on the basis of unit area covered, the total energy required in the manufacture of corrugated sheeting containing aluminum, asbestos cement and plastic coated steel. In the conclusions it was noted that for both single-skin and double-skin cladding, the asbestos-cement sheets required less energy than did the products containing aluminum and steel. Although outside the scope of the survey, it is relevant that the inherent thermal insulation properties are considerably greater in asbestos cement than in the other two materials.

TRI STUDIES FIBER COMPOSITES

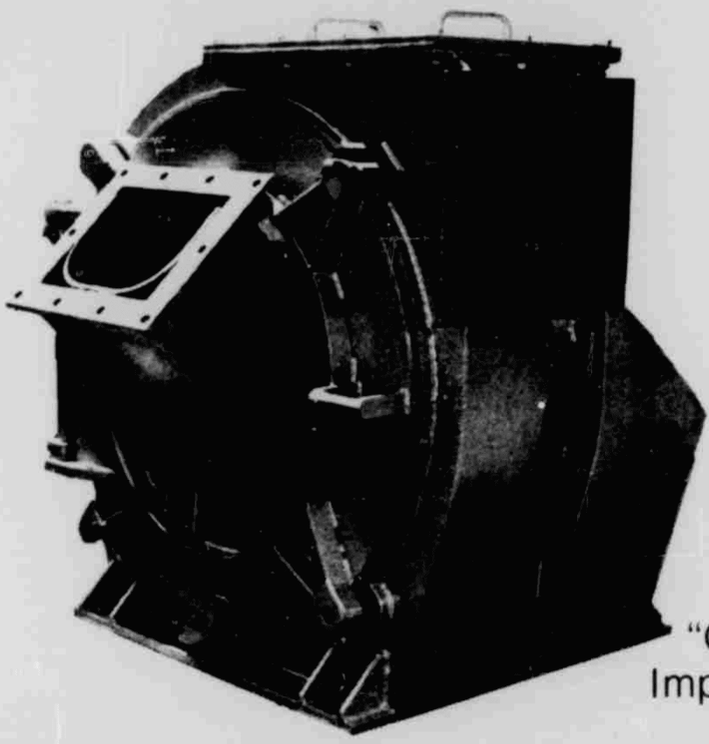
Important new results are being obtained at the *Textile Research Institute*, Princeton, New Jersey, which may point the way to the design of improved fiber reinforced composites. In such composites, adhesion between the reinforcing fibers and the polymeric matrix is frequently critical to performance. The TRI procedure for quantifying fiber surface energetics appears to provide a means of assessing the thermodynamic compatibilities between fiber and matrix. The approach is based on the measurement of both advancing and receding contact angles using a full spectrum of probe liquids and takes into account the chemical heterogeneity of fiber surfaces.

GORHAM MARKET STUDY

A major, multi-client study (Asbestos and Asbestos Replacements in the 1980's—Business and Market Opportunities), designed to clarify the confusing and complex asbestos picture, has been undertaken by *Gorham International*, an independent research and development corporation at Gorham, near Portland, Maine. The one-year study is designed to assess the worldwide markets and business opportunities for asbestos and asbestos replacement materials. It will also evaluate the impact of regulatory programs, emerging technologies and market forces threatening the asbestos industry. Among the subscribers to the study (70% North American and 30% overseas), are asbestos producers (20%), asbestos replacement producers (35%), end product manufacturers and fabricators (25%) and potential new market entrants (20%).

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THE ASBESTOS MINING SCENE

CASSIAR ON THE MOVE

We have been advised by John Oughtred, Manager-Marketing, that effective August 1, 1980, *Cassiar Asbestos Corporation Ltd.*, Vancouver, British Columbia, has officially changed its name to *Cassiar Resources Ltd.* Management remains the same and the company will continue to be a miner of asbestos, although it is diversifying into other mining ventures and interests. The very active $1-million exploration program is now underway (See June 1980 ASBESTOS, page 30), including a joint asbestos venture in the Yukon and Northern British Columbia. The project at Dease Lake, Northern B.C., has been dropped.

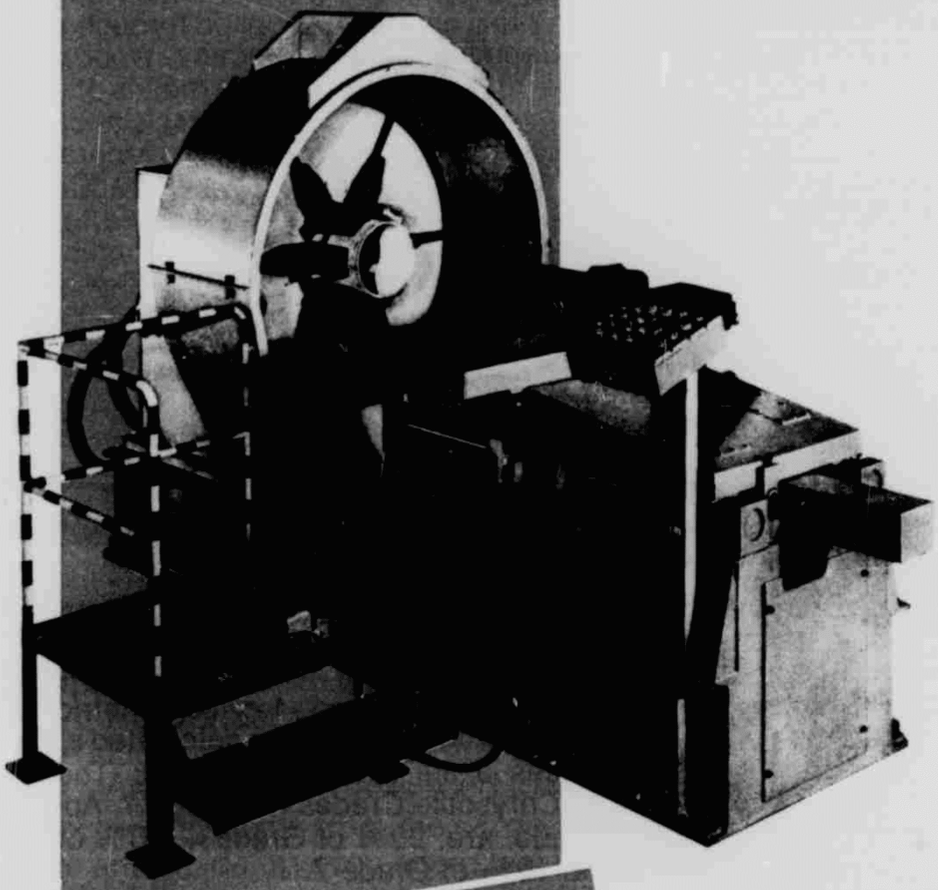
As reported by The Northern Miner, two major developments in the offing for *Brinco Ltd.*, Montreal, Quebec, are a proposed change in control and a plan to acquire Cassiar Resources. This would mean a repatriation of foreign control for both companies. Negotiations are at an advanced stage with *Olympia & York Developments*, Toronto, Ontario, which, if successful, would result in that large real estate firm becoming the controlling shareholder in Brinco. The Canadian ownership of Brinco, including publicly held shares, would increase from 29% to about 74%. The present largest shareholder (Tinto Holdings Canada, a wholly-owned subsidiary of Rio Tinto-Zinc Corporation, of London, England) would retain a 23% interest in Brinco. Brinco says it has reached an agreement in principle with the main shareholders of Cassiar whereby it will obtain an option to acquire their shares (representing about 59% of Cassiar) at a price of $16.00 per share and involving an outlay of some $52-million. The would-be sellers are Turner & Newall Ltd., J. H. Industries (U.K.) Ltd., Newmont Mining Corporation, Raybestos-Manhattan, Inc., and James Hardie Industries Ltd. The option will require Brinco to purchase the controlling shares and to make a general offer to all other shareholders of Cassiar for an equivalent consideration once Brinco receives word that it qualifies as a Canadian controlled company, under the Foreign Investment Review Act.

WOODSREEF HALF-YEAR REPORT

According to a report issued by *Woodsreef Mines Ltd.*, production of fiber from the Barraba Asbestos Mine, New South Wales, Australia, totaled 40,058 metric tonnes during the six months to June 30, 1980, an increase of 10% over the like period a year earlier and reflecting the predicted improvement in recovery due

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to the installation of the tailings recovery circuit which has been fully operational since September 1979. Fiber shipments rose 33% to 40,639 tonnes and revenue from invoiced sales reached A$13,238,000, up 28%. Net trading loss dropped from $2,475,000 to $1,406,000, achieved, according to company directors, as a result of improved fiber recoveries and higher fiber prices. Firm sales booked for the balance of 1980 indicate that fiber stocks will be reduced to below normal levels by the end of the year.

Agreement has been reached with the Group's bankers on the terms of the restructuring of the operating subsidiary, *Chrysotile Corporation of Australia Pty. Ltd.* (receiver appointed). Under the agreement, the company's major assets will be refinanced and additional working capital of $3.7-million will be supplied through a preference share issue to the Canadian parent company, *Woodsreef Minerals Ltd.*, who proposes to raise the money by means of a financing on the Toronto Stock Exchange. Requests for assistance in the restructuring have been submitted to the N.S.W. and federal governments. As a result, the N.S.W. government has agreed to the remission of 90% of royalties for a 12-month period after restructuring. Subject to the success of refinancing the major assets and the financing in Canada also being successful, Chrysotile Corporation would be released from receivership, hopefully by August 31, 1980.

At the recent annual meeting of Woodsreef Minerals Ltd., Toronto, shareholders approved a change of name to *Transpacific Asbestos Inc.*.

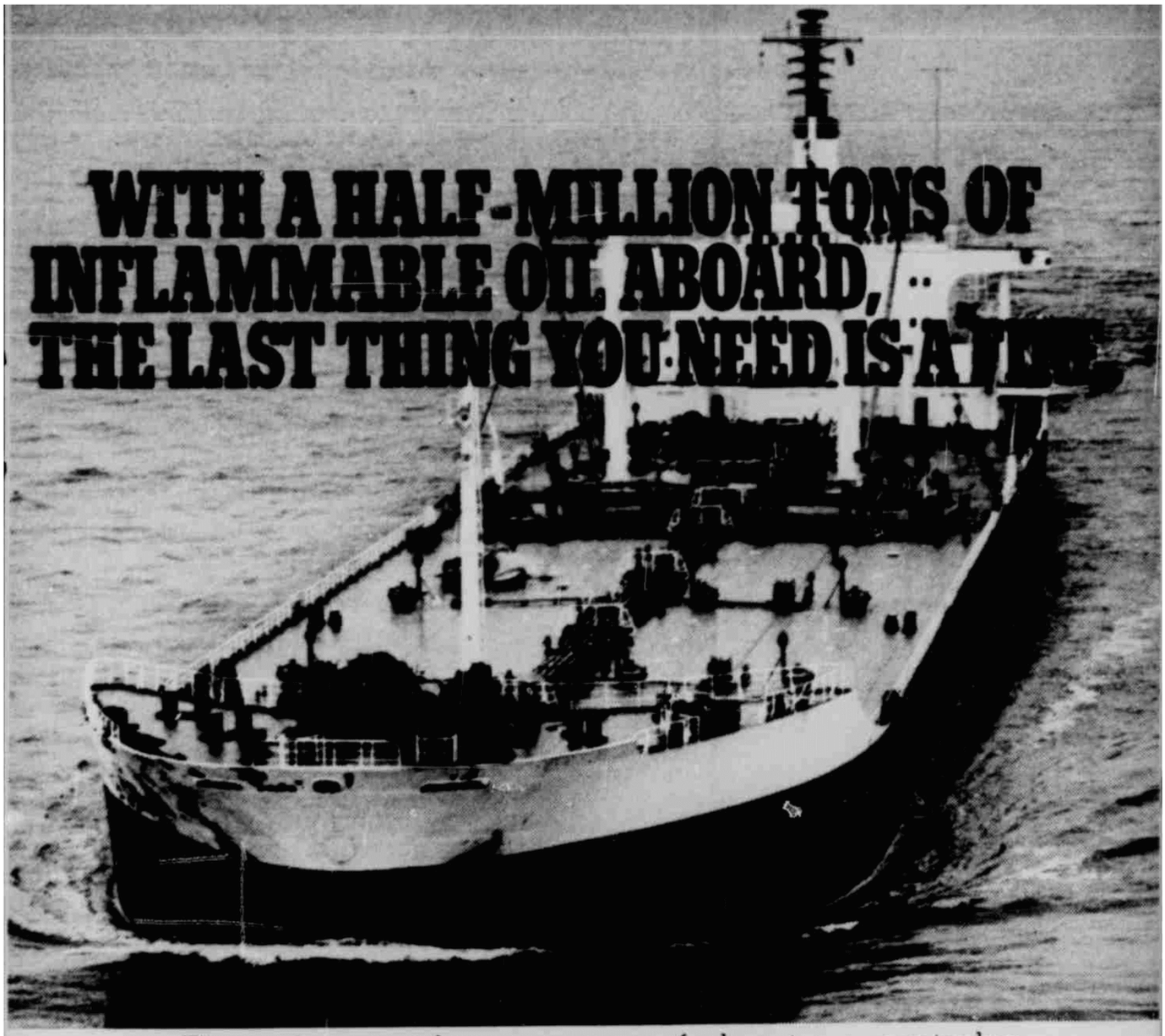
ZIDANI TO PRODUCE NEXT YEAR

We have learned from Professor Loucas S. Moussoulos, Chairman of the Board and Managing Director, *Asbestos Mines of Northern Greece S.A. (MABE)*, that the Zidani Asbestos Mine will reach its contemplated capacity of handling 4-million metric tonnes of ore per year by October. With ore reserves calculated at 100-million tonnes, this indicates a life span of 25 years. The deposit offers about 2.63% of Chrysotile Grades 4 through 7. Approximate percentages, by Grade, are: 20% of Grade 4, 50% of Grade 5, 15% of Grade 6 and 15% of Grade 7.

When the processing plant and related facilities are completed by the end of this year, production capacity will be between 100,000 and 110,000 tonnes of asbestos per annum. Some 60% to 70% of this total is the anticipated output during 1981, the first year of operation.

Total investment for the complex is estimated at $85-million, i.e., $67-million for capital cost of the mining/milling project plus

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$18-million for start-up expenses, working capital and capital interest during the construction period.

For the time being, Greece will utilize 20% of the annual output, with the remainder to be exported, primarily to Mediterranean, Far-Eastern and European countries. At current prices, exports could annually provide $60-million to $65-million.

Although not investigated as yet, a second, smaller asbestos deposit exists near the Zidani site.

Top MABE executives, in addition to Professor Moussoulos, are Spiros Kokkinopoulos, General Manager; George Bassiakos, Deputy General Manager; and Leo Mitsas, Administrative and Financial Manager.

CORPORATION GRANTED INJUNCTION

Asbestos Corporation Ltd. (ACL), Montreal, has won the latest round in its legal battle against expropriation by the Quebec government. In a ruling that staves off any precipitous takeover of the U.S.-controlled company (ACL is 54.6% held by General Dynamics Corporation, St. Louis, Missouri), a Quebec appeals court judge has turned down a government request to lift an injunction protecting ACL from expropriation until the constitutionality of Quebec nationalization legislation has been tested through the courts. The ruling sets aside any prospect that the government could proceed with its planned takeover of ACL. If the case is pursued through to the Supreme Court of Canada, prospects are dim for any final legal decision much before next spring.

VAG BACK TO WORK

Vermont's only asbestos mine has reopened after a seven-week shutdown. Howard Manosh, President of *Vermont Asbestos Group Inc.* said that most of the 200 workers returned to work the last week in July, when inventories fell to acceptable levels. He said the shutdown was caused by the recession in the automotive and construction industries, which use much of the asbestos produced by VAG.

MOZAMBIQUE ANTHOPHYLLITE

Mario Deus, of *Minas Gerais de Mozambique Lda. (MAGMA),* Maputo, Mozambique, advises that MAGMA is currently testing a pilot plant and expects to soon be producing Anthophyllite asbestos from the Mavita mines. This property had been closed since mid-1975.

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= Capacity : 200 bags /hour

= Residual asbestos in the bag : less than 1 g /bag

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

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MINING & EXPLORING EQUIPMENT

DUAL-TUBE DRILLING

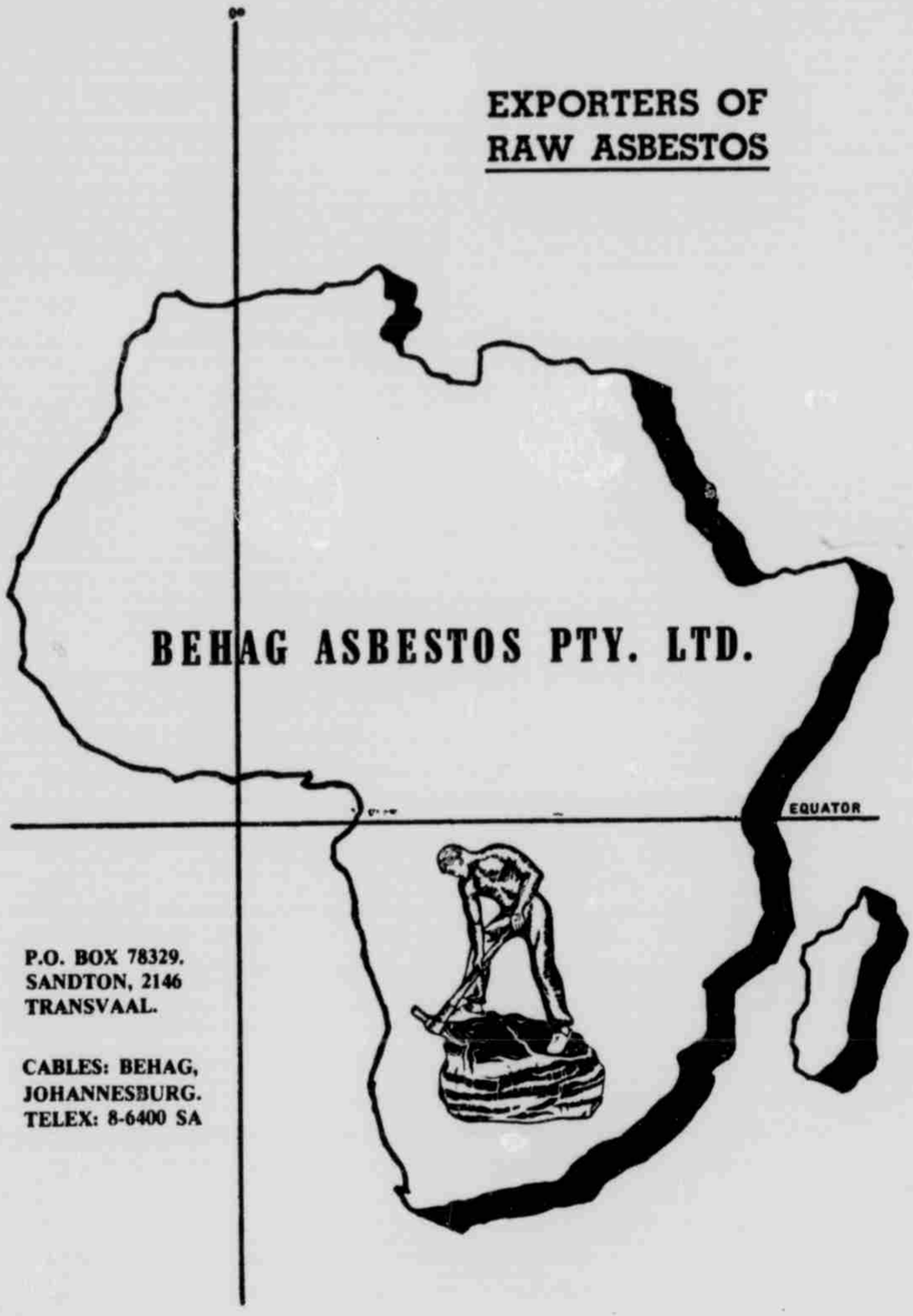
Reverse circulation, or dual-tube drilling, is rapidly becoming the most effective way to map underground strata, according to *Ingersoll-Rand Company*, Woodcliff Lake, New Jersey, manufacturer of the TH-100 Cyclone top-head drive drill and the Spiro-Flo compressor. Reverse circulation involves two tubes, one within the other. The hole-cleaning air or fluid is forced down the annulus between the inner and outer tubes to the drill bit, where it sweeps the cuttings back up through the center tube to a collector on the surface. Since the geological samples do not contact the walls of the bore hole on the way to the surface, there is no contamination from caving or eroded particles. The geological sample from the drilling process is continuous as long as the drill is in operation. Circulation can be maintained no matter what the condition of the drilled material, since the outer pipe supports the hole. Chips are collected and stored in plastic bags approximately the size of the drilled hole diameter, so that samples are arranged in relation to depth. According to *Drilling Services Company*, Tempe, Arizona, the Ingersoll-Rand drive drills are best suited for their specialized work, which is mostly done at an angle to provide an accurate map of the underground strata. They like the locking feature which allows them to position the drill at any angle, lock it in place and drill. The variable speed, top head drive and IR-s compressor makes the I-R Cyclone drill ideally suited for reverse circulation drilling. Also, the dual tubes used in the process fit in the Cyclone's high capacity carousel.

AIR CONDITIONING REDUCES DUST

Mining machines with properly enclosed and air conditioned cabs can substantially and cost effectively reduce the exposure of machine operators to dusts, according to a report from the *U.S. Bureau of Mines*. The top priority for both retrofitting and original manufacture of cab enclosures must be a rugged, easily regulated air conditioner. Otherwise, operators will tend to open cab doors and windows, admitting dust, when conditions become uncomfortable. In the study, dust reduction efficiencies of currently used enclosed cabs were examined. Dust concentrations were measured inside and outside cabs at various surface and underground mines for a period of one to three days. Operators were told only to run

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their equipment normally. Data showed that enclosed cabs could be an effective way to protect operators from dust, but only if adequate air conditioning is provided. An assessment of current cab technology based on the findings and recommendations from the study is being conducted for the Bureau by *Wyle Laboratories* under a $309,493 contract.

RETRACTABLE DRILL BIT

Substantial cost savings during mineral exploration drilling might be made if research on a retractable core drill bit is successful, says the *Mines Bureau.* The system is being developed under a $573,000 cost-sharing contract between the Bureau and *Longyear Company*, a drillmaker and drilling contractor. During conventional core drilling, a worn drill bit can be replaced or inspected only after the entire drill string is withdrawn from the hole. Disadvantages include several hours in time, an increse in the likelihood that the walls of the hole will collapse, and possible injury while unscrewing and handling the rods. The new mechanical retracting system is designed to retrieve the worn bit and bring it to the surface without removing the drill rods. It consists of a removable diamond-studded bit, a down-the-hole retraction tool and an insertion tool. The device, activated from the surface, grasps the core bit, unlocks it and rotates the bit into the correct position for removal. It then draws the bit through the center of the hollow drill rods to the surface. The process is reversed to install a new drill bit. Components of the system have been tested and found successful. The entire system is now being evaluated for overall effectiveness.

DC CIRCUIT BREAKER CALIBRATION

A safe, convenient and easy-to-use calibrator for measuring the sensitivity of circuit breakers in mines has been developed by *Westinghouse Electric Corporation,* under a $658,000 contract from the *Mines Bureau.* It weighs just 86 pounds and can be carried to the circuit breaker site in the mine. Connecting cables weigh an additional 22 pounds and the calibration can be completed in about five minutes. To test the breaker, the calibrator draws power from the central mine trolley wire and sends a controlled pulse of current through the circuit breaker. The amount of current needed to trip the breaker is registered on a meter.

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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

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— Production of special sheets up to 9 mt length.

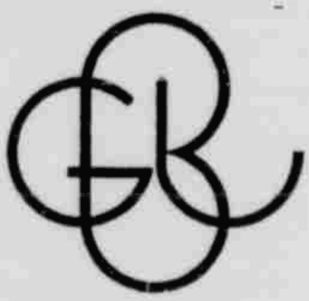
— Auxiliary machines for special sheet profiles.

— Complete plants with high production for pressure and sewage pipes.

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— Machines for finishing pipes.

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



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MARKET CONDITIONS

GENERAL BUSINESS

The outlook for the economy took a turn for the better when the Index of Leading Economic Indicators for June showed an increase of 2.5%, the largest monthly improvement since June of 1975. However, both government and private economists agreed that this, by no means, signaled the end of the recession but merely indicated the bottom might be reached somewhat earlier than had been previously anticipated. Assuming the Index continues to improve over the next few months, it is still likely that employment and economic output will decline further since, historically, actual performance tends to lag the Index by about three months.

While the July change in unemployment was hardly noticeable, substantial rises are predicted for the coming months and forecasts are centered around an ultimate rate of 9% for the last quarter of 1980 and the first quarter of next year. Gross National Product dropped sharply in the second quarter but there are some signs that the automobile and housing markets, first and hardest hit by the recession, may be nearing a turning point which would be good news for producers of metals and building materials.

The steep drop in interest rates slowed appreciably in July and rates on short term government obligations moved upward during that month. On the other hand, some banks continued to shave their prime rates and both short and long term rates are expected to work lower by year end.

Despite pronounced weakening in the economy, the consumer price index rose 1% in June after seasonal corrections. While this increase was somewhat greater than those recorded for the preceding two months, it was substantially lower than that of the first three months of this year and is expected to move even lower in the next few months. Looking ahead, food prices may increase appreciably if crops are affected adversely by the protracted spell of inclement weather presently covering much of the country. In general, there is no reason to anticipate any meaningful, permanent easing of inflation in the foreseeable future.

In the face of a deteriorating economic situation and with many companies reporting falling profits or actual losses, the stock market mounted an impressive rally starting in late March and continuing through July. As so often happens, there is no single, obvious explanation for this apparently perverse behaviour. Among possible contributing factors are increasing hopes for a change of national Administration in November, falling interest

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ASBESTOS

HUXLEY DEVELOPMENT CORPORATION

Anthophyllite
Chrysotile
Crocidolite
Amosite

TIME & LIFE BUILDING
ROCKEFELLER CENTER
NEW YORK, N. Y. 10020

TEL: 212 581-0660
CABLE: HUXLEYCORP
TELEX: 420195 (ITT)
127407 (WU)

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rates making stocks more attractive vis-a-vis fixed income investments and the thought that stocks may be the one large store of value whose prices have not yet reflected the effects of inflation. While many analysts are warning of an impending price correction, several leading brokerage houses have recently taken the position that stocks are a definite long-term "buy" and it appears many institutions and individuals are now of the same opinion.

On the political front, Mr. Reagan has won the Republican nomination and Mr. Carter seems sure to be the Democratic nominee, while Mr. Anderson will probably run as a third party candidate. While the polls show Mr. Carter's popularity is at an all-time low, there are so many chances for rapid turnabouts on the part of any of the candidates that even the most knowledgeable pollsters and politicians will make no firm predictions at this time.

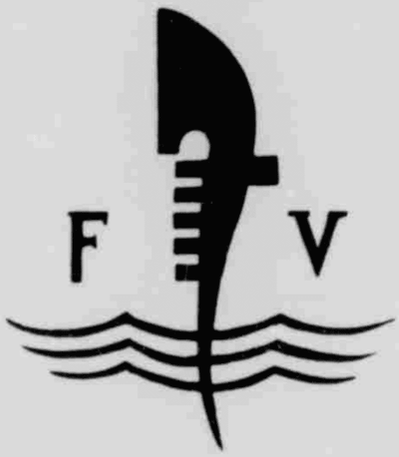
DODGE CONSTRUCTION CONTRACTS

JUNE 1980—According to the F. W. Dodge Division of McGraw-Hill Information Systems Company, the June Dodge Index registered 145, a 16% rise over May and reversing the decline that began after the 190 recorded for January. The Index, seasonally adjusted with 1972 as the 100 base, reflected a total of $12.4-billion of newly-started construction, a level 18% below the year-ago value. Revealing the depth of the housing decline, *residential construction* on a June-to-June basis, at $5.1-billion, was down 30% from last year. On a seasonally-adjusted basis, however, the amount was higher than in May, breaking an eight-month string of declines. Declining mortgage rates, growing availability of mortgage credit and rising home sales are working their restorative powers on residential building. Contracts for *nonresidential building* totaled $4.9-billion, a 6% increase over last June. Institutional building supplied the growth, compensating for another decline in commercial building. *Nonbuilding construction* contracts, at $2.5-billion, were 24% below last June. The negligible amount of utility building and the holding back of federal funding for highways and other public works construction in the name of fiscal restraint, are depressing the nonbuilding sector.

FIRST HALF 1980—Total value of construction contracts for the first six months of 1980 reached $66.5-billion, 25% below the same 1979 period. Breakdown, by category, is: residential building—$26.7-billion, down 31%; nonresidential building—$24.8-billion, no change; nonbuilding construction—$15-billion, down 41%.

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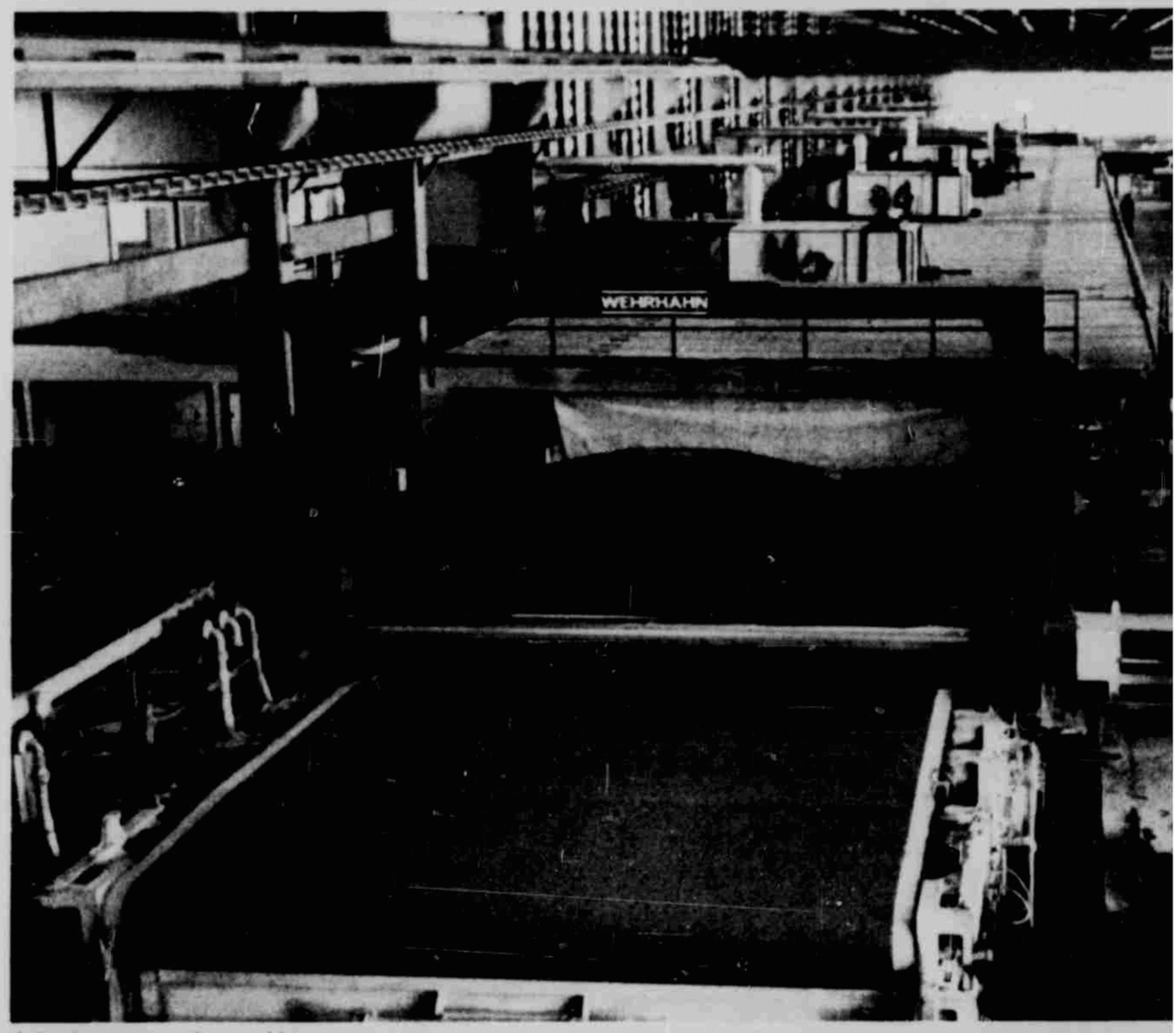
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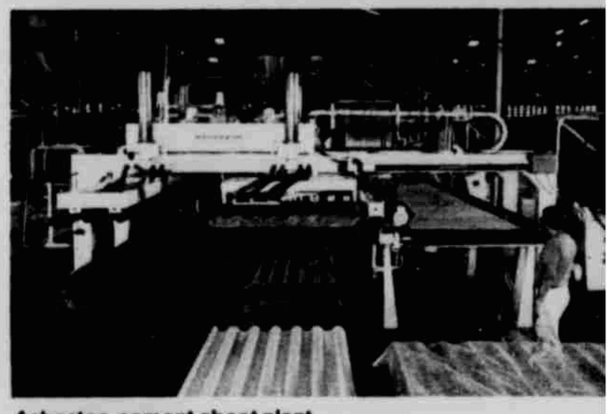
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Asbestos-cement pipe machine



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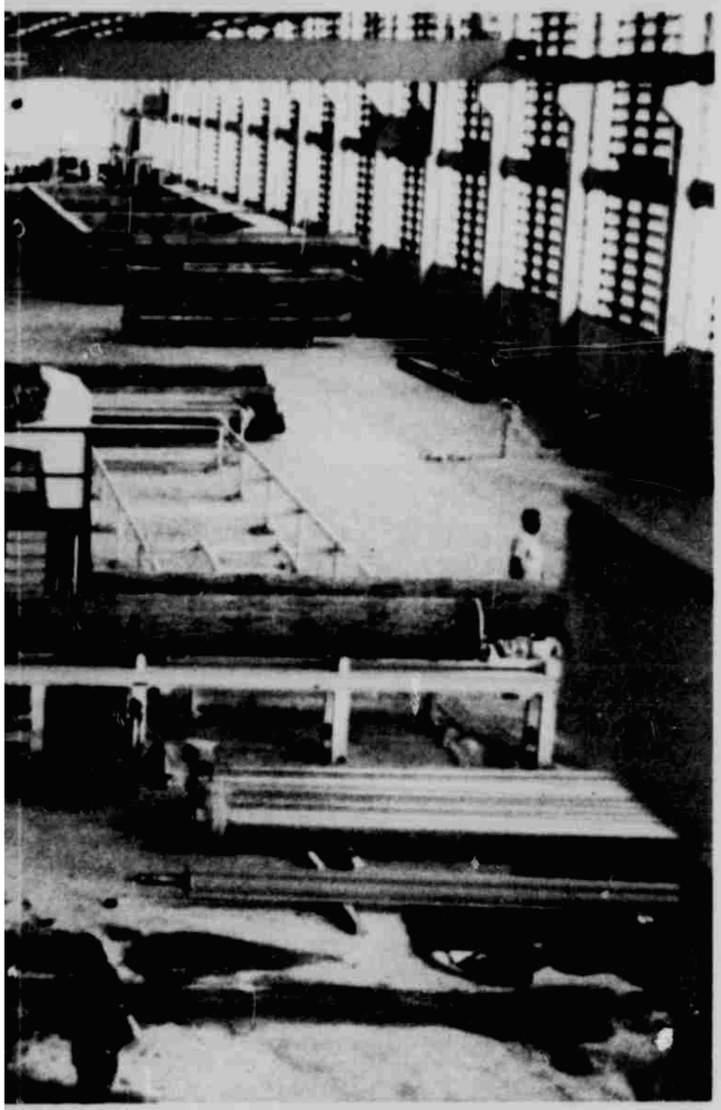
Asbestos-cement sheet plant

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AHN

Complete plants for the production of asbestos cement pipes and asbestos cement sheets



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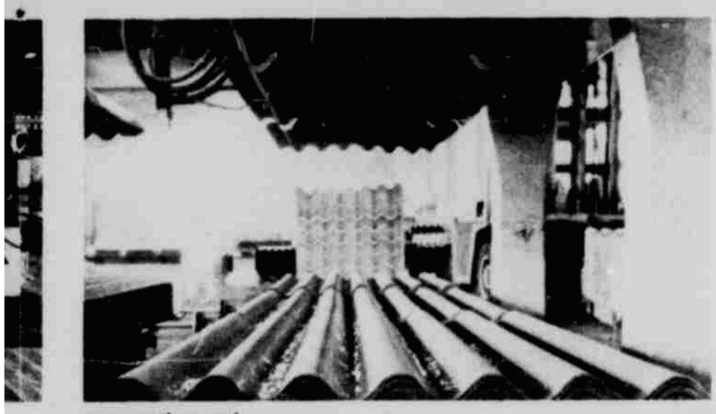
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PRODUCTION—IMPORTS—EXPORTS

U.S. ASBESTOS INDUSTRY—1979

Production of asbestos in 1979 (all Chrysotile) totaled 93,000 metric-tonnes valued at $28-million, about the same as in 1978 and originating from California, Vermont and Arizona, in that order. Imports for consumption reached 541,000 tonnes in 1979 (96% from Canada) compared with 570,000 tonnes in 1978. Canada supplied nearly 99.5% of the Chrysotile imported into the United States and the Republic of South Africa supplied 84% of the Amosite (388 tonnes) and 96% of the Crocidolite (13,327 tonnes). U.S. exports of asbestos amounted to 39,000 tonnes in 1979 vs. 44,000 in 1978 and apparent consumption was 592,000 tonnes in 1979 compared with 619,000 tonnes in 1978. Consumer stocks at year-end totaled 87,000 tonnes in 1979 and 83,000 in 1978 and employment at the mines and mills totaled 250,000 in 1979 and in 1978. Net import reliance has been 85% for the past three years. Stockpile inventory on November 30, 1979, was 9,940 tonnes of Chrysotile, 2,163 tonnes of Crocidolite and 38,586 tonnes of Amosite, with 2,163 tonnes of Crocidolite and 14,735 tonnes of Amosite authorized for disposal. [U.S. Bureau of Mines]

FELT SHIPMENTS FROM CANADA

Canadian domestic shipments of *wet felts and jackets* for the *First Quarter 1980* totaled 163,562 kilograms, valued at C$7,533,809. These figures include 977 kg, valued at $17,458, to manufacturers of asbestos-cement pipes and/or sheets. Foreign shipments during the quarter reached 92,842 kg, valued at $4,984,152, including 13,063 kg, valued at $326,574, to a/c pipe and/or sheet makers. . . . Total Canadian shipments of *dryer felts and fabrics* for the three months amounted to 141,871 square meters, valued at $6,185,491. . . . Shipments of Canadian *plastic forming and paper machine fabrics* totaled 68,971 m², valued at $6,816,337. . . . Total shipments of *pulp machine fabrics* during the latest quarter reached 2,684 m², valued at $211,935. [Statistics Canada]

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 89,348 metric tonnes in *May 1980* compared with 119,966 tonnes in the fifth month a year earlier. Cumulative total for *January-May 1980* is 476,182 tonnes: 407,513 tonnes from plants in Quebec and 68,669 tonnes from plants in Newfoundland and British Columbia. Total shipments for the first five months of 1979 were 576,867 tonnes: 519,424 tonnes from Quebec plants and 57,443 tonnes from the remaining operations. [Canadian Department of Energy Mines and Resources]

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers for *January-June 1980* reached 23,821 metric tonnes (4,606,737 square meters), compared with 21,785 tonnes (4,485,588 m²) in the first half of 1979. *Shipments* for the same 1980 period totaled 21,844 tonnes (4,243,603 m²) vs. 20,461 tonnes (4,206,634 m²) the prior year. [Statistics Canada]

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

			APRIL 1980
UNMANUFACTURED ASBESTOS:			
Crocidolite, South Africa	s.tons	727	$ 471,161
Chrysotile Spinning Fibers, Canada	s.tons	466	255,616
Rhodesia	s.tons	60	73,934
Chrysotile, Other, Canada	s.tons	28,773	6,371,956
Mexico	s.tons	25	417
South Africa	s.tons	121	50,336
Other Crudes & Fibers, Canada	s.tons	462	111,086
Germany, Fed. Rep.	s.tons	13	12,697
Mexico	s.tons	1	1,750
Rhodesia	s.tons	80	80,125
South Africa	s.tons	18	26,006
United Kingdom	s.tons	1	712
		30,747	$ 7,455,796
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	543,908	$ 943,662
A-C pipes, tubes & fittings	Lb	489,954	78,386
Other asbestos-cement articles	Lb	4,304,249	876,729
Other asbestos articles			412,625
			$ 2,311,402

			JANUARY-APRIL 1980
UNMANUFACTURED ASBESTOS:			
Amosite, South Africa	s.tons	96	$ 50,634
Crocidolite, Canada	s.tons	57	11,672
South Africa	s.tons	5,183	3,336,684
Chrysotile, Crude, Rhodesia	s.tons	22	29,592
Chrysotile Spinning Fibers, Canada	s.tons	2,684	2,041,978
Rhodesia	s.tons	502	473,728
Chrysotile, Other, Canada	s.tons	147,859	35,882,198
Mexico	s.tons	27	783
South Africa	s.tons	239	109,294
Other Crudes & Fibers, Canada	s.tons	3,406	904,762
Germany, Fed. Rep.	s.tons	14	17,423
Japan	s.tons	13	4,440
Mexico	s.tons	1	1,750
Rhodesia	s.tons	80	80,125
South Africa	s.tons	976	647,675
United Kingdom	s.tons	1	712
		161,160	$43,593,450
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	2,697,730	$ 4,514,795
A-C pipes, tubes & fittings	Lb	3,305,339	493,572
Other asbestos-cement articles	Lb	20,620,884	4,002,774
Other asbestos articles			2,124,428
			$11,135,569

January-April 1979: U.S. imports of unmanufactured asbestos totaled 222,540 short tons, valued at $54,521,177; imports of manufactured asbestos products were valued at $9,971,202.

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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

			APRIL 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	3,004	$ 1,310,513
Asbestos sand & refuse	s.tons	379	104,066
		3,423	$1,414,579
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	212,289	$ 458,090
Asbestos-Cement shingles & clapboard	Lb	611,205	187,037
Other asbestos-cement articles	Lb	4,997,786	1,431,191
Asbestos gaskets	Lb	58,947	313,286
Asbestos packings & seals	Lb	221,117	1,021,094
Asbestos insulation		..	446,348
Brake linings & disc brake pads		..	4,944,693
Clutch facings & linings		..	818,338
Other asbestos articles		..	2,361,473
			$11,981,550

			JANUARY-APRIL 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	11,002	$ 4,712,166
Asbestos sand & refuse	s.tons	3,921	1,150,773
		14,923	$ 5,862,939
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	1,172,248	$ 2,136,959
Asbestos-Cement shingles & clapboard	Lb	3,341,733	802,604
Other asbestos-cement articles	Lb	11,539,607	3,670,513
Asbestos gaskets	Lb	344,845	1,085,966
Asbestos packings & seals	Lb	1,199,046	4,796,743
Asbestos insulation		..	1,792,077
Brake linings & disc brake pads		..	18,986,856
Clutch facings & linings		..	3,480,816
Other asbestos articles		..	10,319,830
			$47,072,364

January-April 1979: U.S. exports of unmanufactured asbestos reached 12,053 short tons, valued at $4,125,181; exports of manufactured asbestos products were valued at $46,721,204.

WOODSREEF PRODUCTION

Chrysotile Corporation of Australia Pty. Ltd. produced 19,607 metric tonnes (revised) of asbestos in the *First Quarter 1980* and 21,202 tonnes in the *Second Quarter 1980* at its Woodsreef Asbestos Mine at Barraba, New South Wales. Total output since the complex began operating in *February 1972 through June 1980* amounted to 465,152.5 tonnes.

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EXPORTS FROM CANADA

From: Statistics Canada

APRIL 1980

Short tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe		97	30,159	12,312
Eastern Europe		350	617	199
Middle East			550	
Africa			3,578	2,402
Asia		35	8,206	9,298
Oceania			292	108
So. & Cen. America & Antilles		221	6,980	4,806
United States	—	134	6,380	29,098
		837	56,762	58,223

The total amount of unmanufactured asbestos exported in *April 1980* was 115,822 short tons (105,077 metric tonnes), valued at C$50,811,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$	351,000
Asbestos brake linings & facings		277,000
Asbestos-Cement building materials		1,439,000
Other basic asbestos products		1,138,000
	C$	3,205,000

JANUARY-APRIL 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe		1,714	76,646	51,504
Eastern Europe		1,052	3,919	219
Middle East		100	2,739	330
Africa			5,606	3,738
Asia		713	30,585	40,994
Oceania		5	4,958	415
So. & Cen. America & Antilles		553	20,616	14,243
United States	—	1,856	32,751	127,672
		5,993	177,820	239,115

The total amount of unmanufactured asbestos exported in *January-April 1980* was 422,928, short tons (383,678 metric tonnes), valued at C$174,790,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$	1,708,000
Asbestos brake linings & facings		1,124,000
Asbestos-Cement building materials		7,397,000
Other basic asbestos products		4,600,000
		C$14,829,000

January-April 1979: Canadian exports of unmanufactured asbestos totaled 493,060 short tons (447,290 metric tonnes), valued at C$179,892,000; exports of manufactured asbestos products were valued at C$10,134,000.

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CURRENT ASBESTOS PRICES

QUOTED FROM COMPANY PRICE LISTS

ASBESTOS CORPORATION

PER TON OF 2000 LBS., F.O.B. MINE

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

Grades 3Z to 3F spinning fiber	$1125 to $1750
Grades 4T to 4A asbestos cement fiber	846 to 1102
Grades 5R to 5D paper fiber	530 to 626
Grade 6D paper and shingle fiber	380
Grades 7TS to 7D shorts	122 to 233

CASSIAR RESOURCES

PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

AAA	nonferrous spinning fiber; Canadian Group 3	$2000
AA	nonferrous spinning fiber; Canadian Group 3	1600
A	nonferrous spinning fiber; Canadian Group 3	1150
AC	nonferrous spinning fiber; Canadian Group 3	1050
AK	asbestos cement fiber; Canadian Group 4	975
AS	asbestos cement fiber; Canadian Group 4	900
AX	asbestos cement fiber; Canadian Group 4	825
AY	asbestos cement fiber; Canadian Group 5	575
AZ	asbestos cement fiber; Canadian Group 6	375

Specialty grades AK100, AS100, AX100 and AY120 are increased an additional $25.00 per ton above list price of base grade.

VERMONT

PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT

AS OF JANUARY 1, 1979

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

PER TON OF 2000 lbs., F.O.B. KING CITY, CALIFORNIA

AS OF JANUARY 2, 1980

U.S. DOLLARS

SG-103	pellets in bags	vinyl-asbestos floor tile	$ 122
SG-104	pellets in bulk	vinyl-asbestos floor tile	106
SG-130	open fiber in bags	general	170
SG-200	pellets in bags	rubber tile	160
SG-210	open fiber in bags	general	220
HPP	pellets in bags	rubber reinforcement	204
HPO	open fiber in bags	asphalt	220
RG-110	open fiber in bags	roofing	240
RG-144	open fiber in bags	resin viscosity control	560
RG-244	open fiber in bags	resin viscosity control	2500

ASBESTOS PRICES—CONTINUED

CALAVERAS ASBESTOS

PER TON OF 2000 LBS . F.O.B. COPPEROPOLIS, CALIFORNIA

AS OF JANUARY 1, 1980

	U.S. DOLLARS
Grade 4T surface area 6000	$ 661
Grade 5R surface area 8000	434
Grade 6D surface area 8000	318
Grade 7R surface area 10000	115

ARIZONA

PER TON OF 2000 LBS.. F.O.B. GLOBE, ARIZONA

AS OF JULY 1, 1976

	U.S. DOLLARS
No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 nonferrous filtering—plastic	$ 750— 840
Group No. 4 nonferrous filtering—plastic	750— 840
Group No. 7 white shorts	100— 200

BRAZIL

PER TON OF 2000 LBS.. F.O.B. MINE

AS OF MARCH 1980

	BRAZILIAN CRUZEIRO $
Grades 4T to 4Z asbestos cement fiber	$16659 to $18696
Grades 5K to 5R asbestos cement fiber	10246 to 14025
Grade 6D asbestos cement fiber	7488
Grade 7TF asbestos cement shorts	2958
Grade 8S shorts	1399

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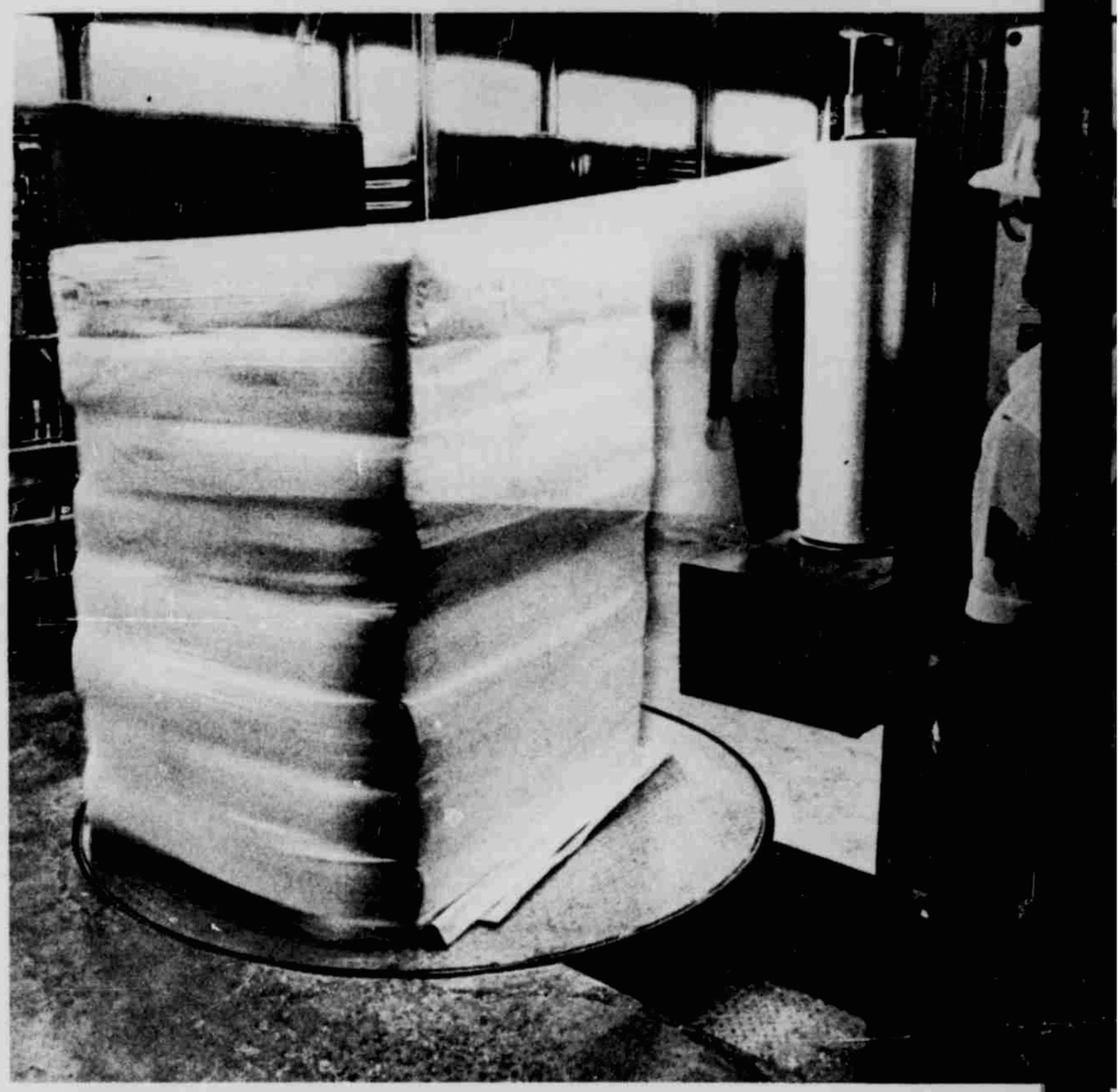
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Stretch protects against and related



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wrapping broken bags dust problems.



Lac d'Amiante du Québec, Ltée now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

- During car loading and unloading.
- During transit.
- In storage and in-plant handling.

Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of LAQ's concern for its customers and the environment. For details contact Lac d'Amiante du Québec, Ltée, P.O. Box 608, Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

LAQ

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MEN ON THE MOVE

THE ANSUL COMPANY

William A. Rickel has been named President and Chief Operating Officer of The Ansul Company, Marinette, Wisconsin, replacing *Terrell L. Ruhlman,* now Chairman and Chief Executive Officer of Ansul and President of Wormald Americas, Inc. Mr. Rickel joined Ansul in 1966 as a salesman.

THE CARBORUNDUM COMPANY

Dr. John W. Kaufman, formerly with North American Refractories Company, has joined The Carborundum Company as Manager of the Advanced Technology Branch, Refractories Division. Carborundum is a subsidiary of Kennecott Copper Corporation. . . . *Gary W. Best* has been named General Manager of the Bonded Abrasives Division of Carborundum, succeeding *Craig R. Smith,* who resigned. Mr. Best joined the company in 1977.

CERTAINTEED CORPORATION

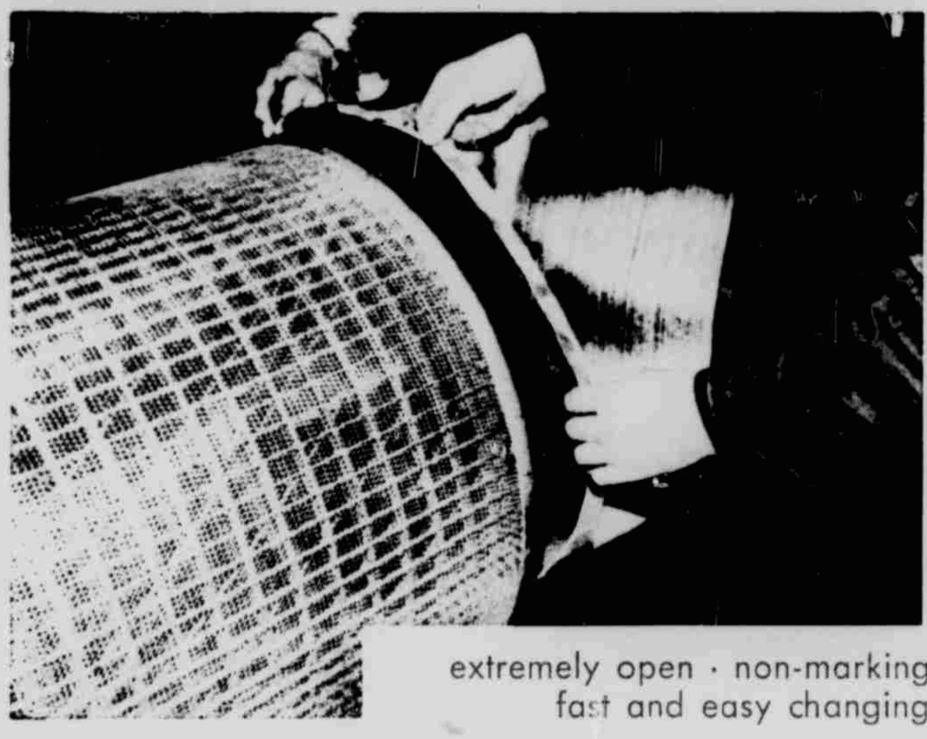
John T. Gurash, Chairman of CertainTeed Corporation, Valley Forge, Pennsylvania, announced that *Michel L. Besson* was appointed Vice Chairman and Chief Executive Officer and *Franklin R. Winnert,* Chief Operating Officer, was named President. Both gentlemen also were elected to the Board of Directors. Mr. Besson had headed the international paper and packaging operations of Saint-Gobin-Pont-a-Mousson, the French Company which owns 54% of CertainTeed common stock. Mr. Winnert joined CertainTeed in 1970 and most recently had been Executive Vice President and Chief Operating Officer.

RAYBESTOS-MANHATTAN, INC.

Frederick J. Ross, President and Chief Executive Officer of Raybestos-Manhattan, Inc., Trumbull, Connecticut, announced major changes in the organizational structure of the company, the formation of four operating and five staff divisions and the naming of the corporate officers to head these operations. *Craig R. Smith* was named President and General Manager of the Industrial Division, which combines the activities of the original equipment market and the industrial activities formerly operated as Raybestos Industrial Products Company. *James F. Maclachlan* becomes President and General Manager of the Aftermarket Division, responsible for the friction materials replacement operations. *Gabriel Ferrucci* is now President and General Manager of the International Division. *Fred D. Bauce* remains President and General Manager of the Milford Division and *Robert B. Sims* continues as Vice President and General Counsel, heading the Legal Division, and as Corporate Secretary. Vice President of the Finance Division is *Frederick F. Schauder. George B. Shaw* becomes Vice President of the Human Resources Division and *Wade W. Cloyd* is Vice President of the Communications Division. A Corporate Development and Planning Division will be formed and a search is currently underway for an executive to head this group.

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WILLIAM J. W. SMITH
1911-1980
BELL ASBESTOS MINES LTD.

We are indeed saddened to report the passing, on July 16, 1980, of *William J. W. Smith,* as a result of injuries sustained in an automobile accident on June 29. The accident claimed the life of his wife, Mary Emmeline.

"Bill" or "Pin" Smith was born March 3, 1911, at Westmount, Quebec. He was employed for some 30 years, until the early 1960's, by The Shawinigan Water & Power Company. He joined Bell Asbestos Mines Ltd. as Sales Manager October 1, 1962. Effective November 1, 1966, he was promoted to Vice President-Marketing, the position he held at the time of his retirement on March 31, 1976.

Mr. Smith was the son of George R. Smith, the first President of Bell Asbestos Mines. His brothers, each of whom also served as President of the company, include O. C. Smith, G. W. Smith and F. Parker Smith.

Mr. Smith will be greatly missed by his many friends and associates in the Asbestos Industry around the world.

BIRTHDAY GREETINGS to . . .

Chester E. Shepperly, Senior Vice President-Marketing and Administration, Johns-Manville Corporation, Denver, Colorado, *September 15.*

Ronald D. N. Somerville, Divisional Chief Executive-Construction Materials and a Director, Turner & Newall Ltd., Manchester, England, *September 15.*

F. D. Loneragan, Deputy Managing Director, James Hardie Industries Ltd., Sydney, New South Wales, *September 16.*

Norbert E. Vits, Managing Director, Don International S.A., Manager, Belgium, *September 16.*

Warren T. Whitley, President and Chief Executive Officer, Cement Asbestos Products Company, Birmingham, Alabama, *September 16.*

John Blondeau, Central Regional Manager, Carey Canada Ltd., Cincinnati, Ohio, *September 17.*

D. Michael Pearson, Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, *September 18.*

Peter N. Berkley, Managing Director, Cape Universal Claddings Ltd., Tolpits, Watford, England, *September 20.*

Philip M. Malouf, Chairman of the Board and Chief Executive Officer, United Asbestos Inc., Montreal, Quebec, *September 21.*

C. H. Walters, Chairman, The Griqualand Exploration & Finance Co. (Pty) Ltd., Johannesburg, Republic of South Africa, *September 22.*

Bernard Lincoln, Director, Asbestos Fibre Laboratory, Turner & Newall Ltd., Manchester, England, *September 23.*

N. Rhodes, a Director and General Manager, Asbestos Textiles Division, TBA Industrial Products Ltd., Rochdale, England, *September 24.*

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Win Brown, President, Win Brown Insulation Inc., St. Paul, Minnesota, *September 25.*
D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, *September 27.*
Guy W. Fiske, Chairman, Asbestos Corporation Ltd., St. Louis, Missouri, *September 28.*
Franklin R. Winnert, President and Chief Operating Officer, CertainTeed Corporation, Valley Forge, Pennsylvania, *September 28.*
Lloyd C. Ambler, Vice President and General Manager, A/C Pipe Division, CertainTeed Corporation, Valley Forge, Pennsylvania, *October 1.*
Donald A. Bain, President and Sales Manager, Asbestos Erectors of Canada Ltd., Montreal, Quebec, *October 3.*
E. C. Brown, Director, Materials Chemistry, Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, *October 3.*
John J. Charles, a Sales Representative, Southern Textile Corporation, Charlotte, North Carolina, *October 5.*
Douglas E. Berlin, Sales Representative (Far East), Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, *October 8.*
G. Truedson, Managing Director, Svenska, Bromsbandsfabriken AB, a principal subsidiary of Cape Industries Ltd., Langsele, Sweden, *October 9.*
E. L. Alexander, Manager-Engineering, Cassiar Resources Ltd., Vancouver, British Columbia, *October 11.*
G. P. Valgardson, Sales Office Administrator, Cassiar Resources Ltd., Vancouver, British Columbia, *October 11.*
J. W. Rawlings, Vice President/Product General Manager, Union Carbide Corporation, Metals Division, Niagara Falls, New York, *October 12.*

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ANNUAL REPORTS—1979

CAPE INDUSTRIES LTD.

Cape Industries Ltd., London, England, reported sales for 1979 of £204-million compared with £180-million in 1978. Net profit before tax reached £12.5-million against £12.7-million. The results were affected by the major event of the year, namely the sale of Cape's asbestos mining interests in the Republic of South Africa. Since total profits were close to those of the previous year, it should be noted that the industrial operations of the Group nearly made up the difference despite a disappointing result from the Automotive and Engineering Division. The Building and Insulation Division had another excellent year, with all of its sections contributing higher sales and profits. Capital expenditures in 1979 totaled £14.9-million and large expenditures are planned in 1980 for insulation manufacturing activities. Principal subsidiaries of the Cape Group are located in England, Scotland, Ireland, Holland, South Africa, West Germany, France, Belgium and Sweden. Associated companies are in New Zealand, Malaysia, Spain and India. As of March 18, 1980, Charter Consolidated Ltd. held 67.3% of the issued ordinary share capital of Cape, and the whole of the preference share capital. . . . *Acquisitions*—Cape Contracts Nederland B.V., Holland, purchased the assets of the Dutch insulation contracting company, Bestobell-Todd B.V., for a cash consideration, effective April 1, 1979. Agreement was reached for the purchase for cash, effective January 1, 1980, of the share capital of Durasteel Ltd., Wellingborough, Northamptonshire, a private company engaged in the manufacture of composite steel sheets used for a range of fire protection products.

Building and Insulation Division—Against a background of little growth in the construction industry but continued strong demand for insulation products and services, this Division contributed 8.9% of the Group's total sales, increased its sales 30% and raised its profits 38%. At Cape Universal Claddings, the range of products was further developed and the new Unishield insulated wall cladding material is making good progress in the marketplace. The range of new products at Cape Boards and Panels continues to meet the market demand for asbestos and nonasbestos materials. This company's main strength in fire protection boards has continued and, in spite of strong competition, a range of general building board materials has been introduced providing further sales opportunities. Capacity at Cape Insulation was raised some 30%. The combination of government incentives and higher energy costs stimulated demand. Further substantial increases in capacity for fibrous insulation materials are planned for 1980. Cape Insulation Services, which is mainly concerned with domestic insulation contracting, very nearly doubled its sales for the second consecutive year. Cape Contracts had another good year, as the market for thermal insulation remained strong.

Automotive and Engineering Division—The year 1979 was difficult for this Division, with little real growth in sales but with considerable cost pressures. In the United Kingdom, the road haulage and engineering disputes affected all the operating companies. The strength of the pound put pressure on export margins. Consequently this Division's contribution to total Group sales was just 2.2%. During the year, a reorganization of

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the Don friction material activities was carried out in recognition of the inter-dependence of the various companies, wherever located, and the increasingly international nature of their customers. There was little real growth in sales from the friction material and hydraulic component activities of Trist, Draper Ltd. Further improvements to the production facilities and additions to the hydraulic product range should enable better results to be achieved this year.

SUPRADUR MANUFACTURING CORPORATION

Supradur Manufacturing Corporation, New York City, expresses pride in its progress over the last decade, with sales growing from $8.8-million to $32.6-million, earnings rising from $485,000 to $1,829,000 and net worth increasing from $2,249,440 to $10,583,361. In 1970, Supradur was a privately held company with two business groups—roofing/siding and precast concrete. The company is now a small, publicly held, multinational corporation with five separate profit centers. Supradur reports it has spent considerable time, effort and money improving the environment in which its employees work, it has been working diligently to help conserve energy by the development of better and more efficient furnaces for residential and commercial use and it has responded to the need for a safer environment by entering the growing worldwide security systems industry. Supradur is the leading manufacturer of mineral fiber siding and roofing products for markets in the United States and overseas. Export sales and foreign operations are conducted through Suprawall Corporation, New York City; VSG Ambit Vertriebs A.G. and Brixite A.G., Liechtenstein; and Hambau G.m.b.H., Germany.

ASARCO INCORPORATED

Asarco Inc., New York City, is one of the world's leading producers of nonferrous metals and nonmetallic minerals, including asbestos. In addition to mining and treating ore from its own mines, it is a major custom smelter and refiner of nonferrous metal ore mined by others, a recycler of scrap metal, a producer of specialty chemicals, a supplier of solar energy systems and a manufacturer of asbestos-cement pipe. Asarco's operations are carried on in the United States and to a lesser extent in Canada, Peru and Bolivia.

Net earnings for 1979 reached $259,076,000 or $8.56 per share, compared with $49,474,000 or $1.69 per share in 1978 and a net loss in 1977 of $29,506,000 or $1.10 per share. Sales of products and services were $1,724,219,000 in 1979, against $1,174,911,000 in 1978 and $1,045,794,000 in 1977. Asarco's debt-to-capitalization ratio is now under 21%, one of the lowest in the industry.

Record sales of proprietary chemicals to the metal finishing and plating industry again were achieved by *Enthone Inc.*, a wholly-owned Asarco subsidiary. *Sunworks,* formerly a division of Enthone but reorganized in 1979 as a subsidiary of Asarco, is among the top five manufacturers of solar energy equipment in the U.S. Last year, its sales of solar energy collectors to provide heating and hot water to commercial and residential buildings increased 50%.

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The company expresses continued concern about the costs of *government regulation* and the need for a more cost-effective and balanced approach to environmental goals. There continues to be an urgent need for greater tolerance and flexibility in environmental matters and a willingness on the part of our government leaders to respond with more than rhetoric to the widespread demand for reform, says the company.

Lac d'Amiante du Quebec Ltee, Asarco's asbestos mining subsidiary at Black Lake, Quebec, again achieved record levels of production and sales of asbestos fiber and earnings improved over 1978. Some change in the product mix of different fiber grades was made to meet changing market conditions. Markets for 1980 appear strong for most grades of asbestos, especially for the asbestos cement grades used in sheets and pipes. Asbestos-cement building materials are of high quality and relatively low capital cost compared with such competitive materials as steel, aluminum and plastics. . . . LAQ has been named as one of several defendants in 18 actions brought in the state and federal courts of New Jersey by more than 1,300 plaintiffs. Each complaint seeks substantial money damages for alleged personal injury or death claimed to have been caused by workplace exposures to asbestos fibers, or loss of consortium by spouses of plaintiffs allegedly so injured. The first of these cases went to trial in October 1979 and the jury returned a verdict finding the plaintiff had no cause of action against LAQ. In 91 similar state and federal court actions filed elsewhere, 257 plaintiffs have named LAQ as one of several defendants. Ten of the 13 actions in California also named Asarco a defendant. In South Carolina, LAQ was dismissed with prejudice from 31 pending actions in which the plaintiffs were insulation workers. In addition to the above single and multiple plaintiff cases, one uncertified class action is pending in Georgia.

H. K. PORTER COMPANY, INC.

Record sales and net income were achieved in 1979, according to H. K. Porter Company, Inc., Pittsburgh, Pennsylvania. Sales increased 18% to $644.5-million while net income rose 31% to $23.9-million or $20.03 per share. Cash flow was $41.3-million vs. $35.5-million in 1978, new capital additions were $24.4-million compared with $23.5-million, long term debt increased $20.4-million and shareholders' equity was up $19.7-million. The year-end LIFO reserve against gross inventory rose to $75.8-million from $49.9-million.

The highest rate of improvement was made by Fansteel Inc., as sales and operating income gained 38% and 47%, respectively. Connors Steel Company increased its volume 14% and realized a modest 8% rise in sale prices. Sales by the Electrical Division rose 17% and operating income improved 14%. Missouri Portland's cement tonnage decreased 6% in 1979, but higher prices were realized on contractual and regular shipments resulting in an effective dollar gain of 10%. Production costs associated with energy, labor and maintenance increased 18% causing a slight decrease in the rate of gross profit. Sales of industrial products rose 2% with domestic operations up 8% and foreign sales down 13%.

As of February 29, 1980, Porter had purchased 1,950,200 shares or approximately 16% of Macmillan, Inc., and 231,121 shares representing 32% of Joseph Dixon Crucible Company. These investments were made in

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an effort to diversify the company's business and improve its shareholders' return.

Porter is one of many defendants named in numerous lawsuits where plaintiffs have demanded compensatory and punitive damages relating to alleged death or injury resulting from exposure to asbestos. Based on proceedings to date, the company believes that its liability, if any, is adequately covered by insurance and reserves.

Thermoid Division—Sales reached an all time high and major expansion and improvement projects were completed at Bellefontaine, Southern Textile Corporation, Stirling in Great Britain and Klazienaveen in the Netherlands. The Friction Group expanded its efforts in developing and marketing non-asbestos products. The non-asbestos clutch facing, 5005-B, was introduced to original equipment and aftermarket customers and is now on test by major clutch manufacturers. The tunnel mold method of processing clutch facings of all types, including yarn, non-yarn, asbestos and non-asbestos, is now a manufacturing unit in full production. . . . *Southern Textile Corporation* completed its modernization program that now includes a modern dust collection system, high speed spinning and twisting equipment and shuttleless cloth and tape looms. Other improvements are a modern quality control, research and development laboratory and a new administration building. Sales of the GARDIAN line of non-asbestos yarn, tape and cloth products are growing rapidly. Non-asbestos textiles now account for 20% of Southern's sales.

ASBESTOS STOCK QUOTATIONS

CLOSE: JULY 15, 1980

Abitibi Asbestos	C$.80	G&W (pfd 3.87)	102½
Advocate Mines	C$1.40	G&W (pfd 5.75)	64
Armstrong World Ind.	16⅜	IC Industries	26
Armstrong (pfd 3.75)	37	IC Ind. (pfd 3.50)	40¾
Asarco	35⅝	Johns-Manville	22¾
Asbestos Corporation	36	J-M (pfd 5.40)	5.
Bendix	46¼	Kennecott Copper	27⅝
Bendix (pfd B)	41½	Lear Siegler	23¼
Carlisle	39	Lear Siegler (pfd 2.25)	60
Cassiar Asbestos	C$13.50	McAdam Mining	C$.77
CertainTeed	16¾	National Gypsum	23⅛
Charter Conso.	pence 225	Pathfinder	C$.47
Colt Industries	44½	Porter, H. K. (pfd 5.50)	69½
Colt Ind. (pfd 1.60)	34	Raybestos-Manhattan	21⅝
Colt Ind. (pfd 4.25)	95	Rio Algom	C$33.62
Conwest	C$5.00	Supradur	Bid 4; Asked 4¾
GAF Corporation	12⅜	Union Carbide	44⅜
GAF (pfd 1.20)	15½	United Asbestos	C$5.50
Genstar	26⅛	Walter, Jim	36½
Genstar (pfd 1.68)	23	Walter, Jim (pfd 1)	10
Gulf & Western	17	Walter, Jim (pfd 1.60)	39
G&W (pfd 2.50)	44½	Woodsreef Minerals	C$.56

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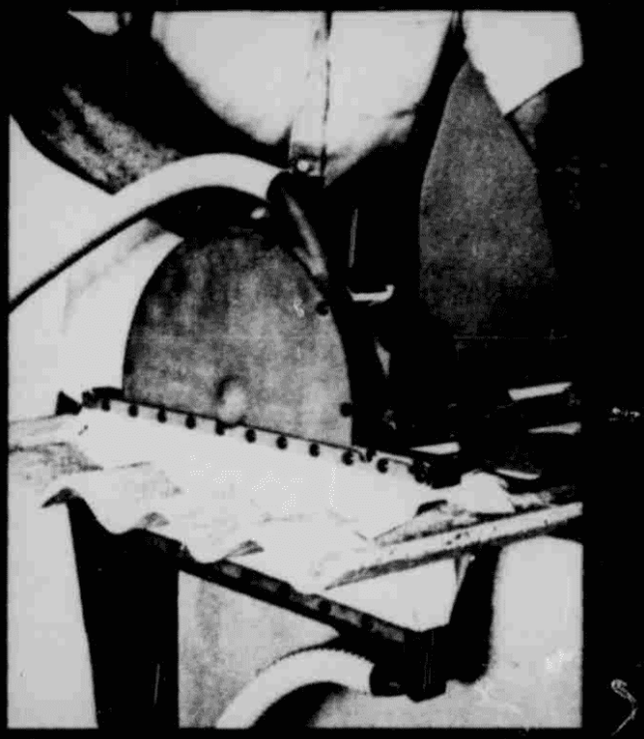
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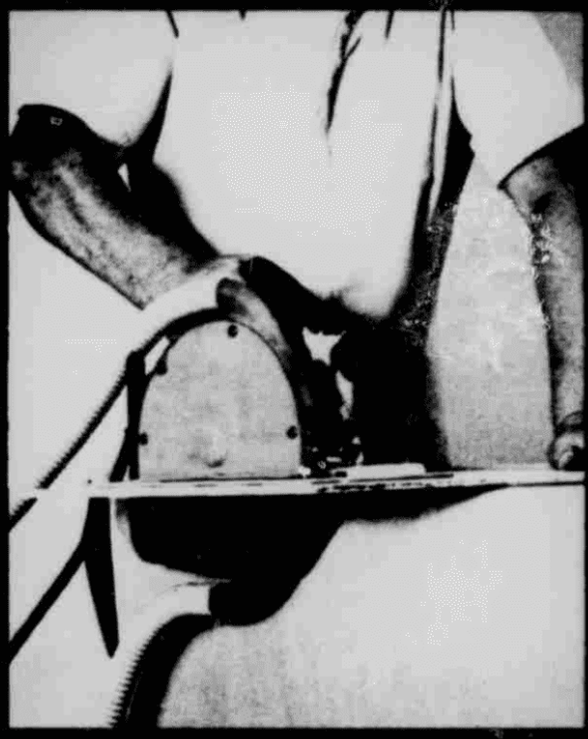
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VALUABLE LITERATURE

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HOW TO CONDUCT FOREIGN MILITARY SALES: 1980-81 UNITED STATES GUIDE—Second edition, by Prof. W. H. Cullin; current Congressional and Department of Defense reporting and approval requirements are referenced, as well as significant legislative changes; contains samples of key documents; export licensing is discussed in depth; covers the sensitive area of second country funding and third country transfer. [446 pages; $95.00; The Bureau of National Affairs, Inc.]

MINING ANNUAL REVIEW/1980—Contains an outlook for the eighties and chapters on individual metals and minerals, including asbestos, and on each mining country; gives technical progress reports on mineral exploration, underground and surface mining, mineral processing and extractive metallurgy; has a professional directory, a buyers guide and indices to manufacturers, mines and companies. [650 pages; US$33.00 by surface mail; US$48.00 by air mail; The Mining Journal Ltd.]

STATISTICS SOURCES—Sixth edition, edited by P. Wasserman and J. O'Brien; among the international organizations and agencies cited are frequent sources of unpublished but available statistical data; features over 12,000 specific subject headings under which are arranged more than 22,000 citations to live and print sources. [1,098 pages; $85.00; Gale Research Company]

ARBITRATION: COMMERCIAL DISPUTES, INSURANCE AND TORT CLAIMS—A multi-authored text, edited by Prof. A. I. Widiss; presents a comprehensive analysis of the advantages and disadvantages of arbitration as opposed to litigation in various business situations; explains how an arbitration case should be prepared, presented and resolved. [360 pages; $35.00; Practising Law Institute]

MEMBRANE AND ULTRAFILTRATION TECHNOLOGY 1980: RECENT ADVANCES—Chemical Technology Review No. 147, edited by J. Scott; discusses multipurpose and liquid membranes, gas separation and purification, electrolytic processes, hemodialysis, medical applications and water purification. [404 pages; $48.00; Noyes Data Corporation]

CHRYSOTILE TEST MANUAL—Revision 1 of the Chrysotile Asbestos Test Manual, 3rd edition, is now available, free of charge, from the Quebec Asbestos Mining Association, 1130 Sherbrooke Street West, Montreal, Quebec H3A 2M8, Canada; basic manual provides 34 standard methods for testing the physical and chemical properties of Chrysotile fiber.

FIBROUS COMPOSITES IN STRUCTURAL DESIGN—Edited by E. M. Lenoe, et al.; contains 52 papers, over half of which deal with all facets of the extensive structural development of organic composites. [900 pages; $85.00; Plenum Publishing Corporation]

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British 2,019,918—A blister-free, hole-free diaphragm is prepared by depositing asbestos fibers and resin from an aqueous slurry of an alkali metal hydroxide and alkali metal chloride onto a liquid permeable cathode, heating the deposit while flowing air through it until no entrained water remains and heating the water-free diaphragm to a temperature sufficient to cause the resin to bind the asbestos fibers together; C. R. Dilmore, E. V. Hoover & A. B. Kriss; assigned to PPG Industries, Inc., November 7, 1979; 15 pages.

British 2,022,110—Brake and clutch linings are formed from a mixture of 20%-35% by weight of asbestos or glass fibers, 8%-15% by weight of a thermosetting resin, up to 25% of powdered iron or copper metal or oxide, up to 10% of organic modifiers, 5%-25% of inorganic modifiers and 15%-35% of carbon and/or graphite particles to minimize abrasive degradation of a mating surface; B. W. Klein & M. G. Jacko; assigned to The Bendix Corporation, December 12, 1979; 11 pages.

British 2,022,312—Radioactive waste of low to moderate activity may be mixed with asbestos, cement sodium silicate, additional water and optionally a bitumen, and the mixture cast in an asbestos-cement container and allowed to harden; the filler container is then disposed of in an environmentally safe location; J. Taponier & R. Pierlas; assigned to Ste. Gen. pour les Techniques Nouvelles SGN, December 12, 1979; 8 pages.

Canadian 1,071,076—An additive composition for use in lubricants, paints, oil well drilling fluids, rubber, etc., comprises Chrysotile asbestos which has been etched superficially with dilute acid and then contacted with octyltriethoxysilane or other organo-silane in a solvent system under mild conditions to render the fiber surface oleophilic; T. E. Sample, Jr., and J. M. Horn; assigned to Dresser Industries, Inc., February 5, 1980; 22 pages.

Canadian 1,072,056—A diaphragm-coated cathode for use in a chlor-alkali cell is made by depositing asbestos as a uniform layer on a formaninous cathode member, removing and drying the coated member, vacuum-impregnating it with thermoplastic polymer particles, fusing the polymer particles and cooling the member to ambient temperature; J. T. Rucker; assigned to Hooker Chemicals & Plastics Corporation, February 19, 1980; 13 pages.

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CALENDAR OF EVENTS

COMPREHENSIVE ASBESTOS SEMINAR—Held by the U.S. Interagency Regulatory Liaison Group (EPA, CPSC, FDA, OSHA, FSQS) to increase understanding of asbestos regulation, worker health hazards and asbestos in consumer products; New Haven, Connecticut, *September 10.*

ANTITRUST, TECHNOLOGY AND PATENTS—Seminar of the New York Law Journal; *September 15-16* at Los Angeles; *October 16-17* at New York City.

CHEMICAL AND PROCESS EQUIPMENT—10th Biennial Canadian Exhibition managed by Southex Exhibitions; Toronto, Ontario, *September 16-18.*

PLANT ENGINEERING AND MAINTENANCE—Eastern Show and Conference produced by Clapp & Poliak, Inc.; Philadelphia, Pennsylvania, *September 16-18.*

DETE[redacted]G TOXICITY OF COMMERCIAL PRODUCTS—Conference announced by The University of Arizona; Tucson, Arizona, *September 16-18.*

EUROTUNNEL '80—2nd International Exhibition and Conference for the Tunneling Industries organized by the Institution of Mining and Metallurgy; Basle, Switzerland, *September 16-20.*

RESOURCE CONSERVATION AND RECOVERY ACT—Conference concerning compliance with hazardous waste regulations under RCRA, presented by Executive Enterprises, Inc.; Arlington, Virginia, *September 17-18.*

1980 MINING CONVENTION—Sponsored by the American Mining Congress; San Francisco, California, *September 21-24.*

FIBROUS COMPOSITE STRUCTURES—Course presented by George Washington University; Washington, D.C., *September 23-26.*

EVALUATION AND SETTLEMENT OF PERSONAL INJURY CASES—Course of the Practising Law Institute; *September 25-26* at New York City; *October 23-24* at Los Angeles, California.

STRIKES, STOPPAGES AND BOYCOTTS—Seminar of the Practising Law Institute; Washington, D.C., *September 29-30.*

OPTICAL FABRICATION AND TESTING—Workshop sponsored by the Optical Society of America; Cape Cod, Massachusetts, *September 22-23.*

FIBER MICROSCOPY AND SPECTROSCOPY—Symposium of The Fiber Society, Inc.; Rockville, Maryland, *October 1-2.*

CORROSION/CORROSION PREVENTION—Continuing Education Seminars of the National Association of Corrosion Engineers: *October 5-10* at Calgary, Alberta, and Newark, New Jersey; *October 19-24* at Dallas, Texas; *October 26-31* at Tucson, Arizona.

HAZARDOUS WASTES REGULATIONS/RCRA—Seminar of Government Institutes, Inc.; Washington, D.C., *October 6-7.*

INDUSTRIAL HYGIENE SAMPLING AND ANALYSIS—3rd Annual Utah Conference cosponsored by the Rocky Mountain Center for Occupational and Environmental Health and the American Industrial Hygiene Association; Salt Lake City, Utah, *October 6-8.*

29TH GEOMECHANICS COLLOQUY—Announced by the Austrian Society for Geomechanics; Salzburg, Austria, *October 9-10.*

IDENTIFICATION OF ASBESTOS—Course presented by McCrone Research Institute Ltd.; London, England, *October 13-14.*

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MONITORING AND COUNTING OF ASBESTOS FIBERS—Course presented by McCrone Research Institute Ltd.; London, England, *October 15.*

STACK SAMPLING AND STATIONARY SOURCE EMISSION EVALUATION—Conference of the Engineering Foundation, Pacific Grove, California, *October 12-17.*

AIA/NA INDUSTRY-GOVERNMENT CONFERENCE

The *Asbestos Information Association/North America* will conduct its *Fifth Annual Industry-Government Conference* at the Twin Bridges Marriott Hotel, Washington, D.C., *September 17-18.* Principal conference sessions will include an industry-government-labor discussion panel comprised of senior executives from industry, regulatory agencies and organized labor; an assessment of the asbestos industry's image; and a review of current knowlege on the asbestos-health relationship by distinguished medical-scientists. Among those invited as participants and guest speakers are: Dr. Eula Bingham, Assistant Secretary of Labor (OSHA); Douglas Costle, EPA Administrator; Susan King, CPSC Chairperson; Joseph F. McCaffrey, of the Washington Congressional Reporter; Daniel Perlstein, Quebec Assistant Deputy Minister of Natural Resources; Etinne van der Rest, Managing Director of Eternit and Chairman of the Governing Council of the Asbestos International Association; Robert A. Georgine, President of the Building and Construction Trades Department, AFL-CIO; John A. McKinney, Chairman of the Board of Johns-Manville Corporation; and Donald Ritter, Congressman. T. A. Dougherty, President of AIA/NA and Vice President-Asbestos and Health for CertainTeed Corporation, will serve as Conference Chairman.

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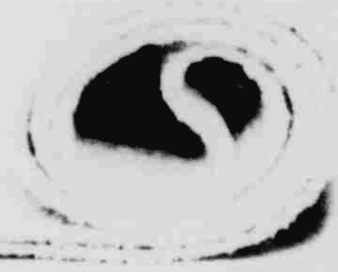
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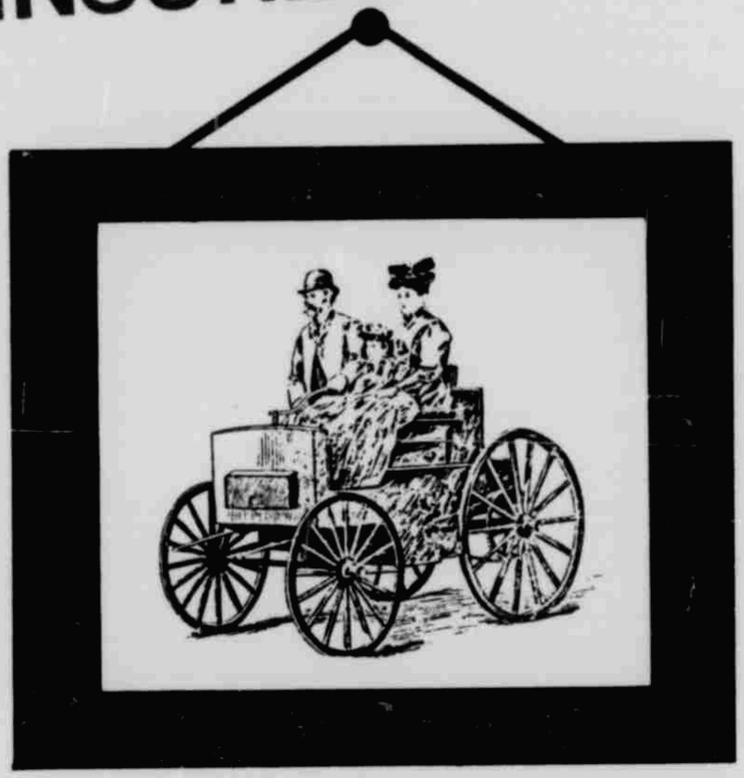
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