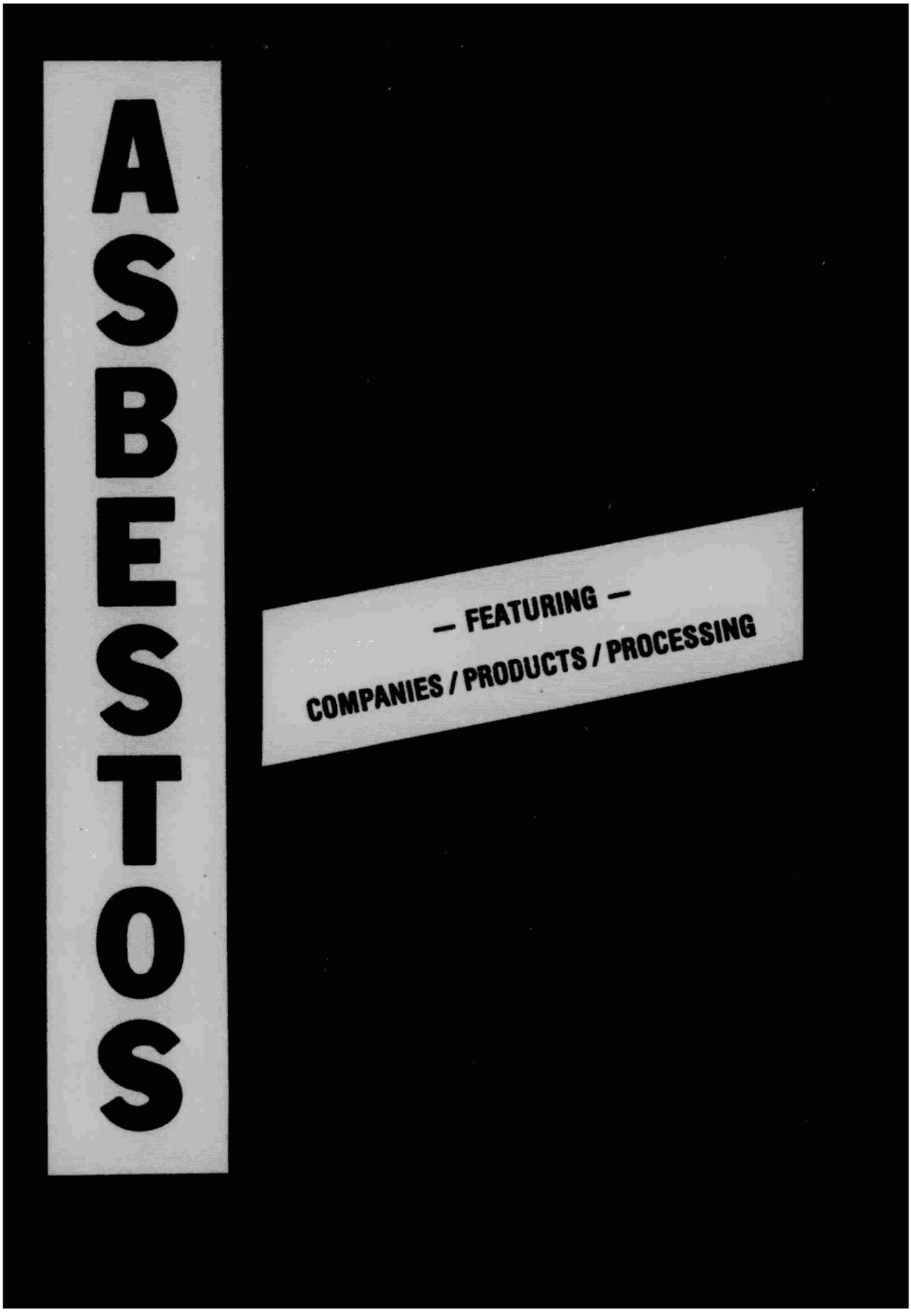


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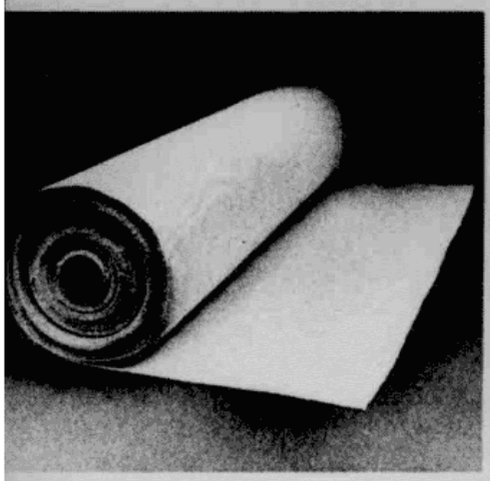
Cleaner than OSHA requires...

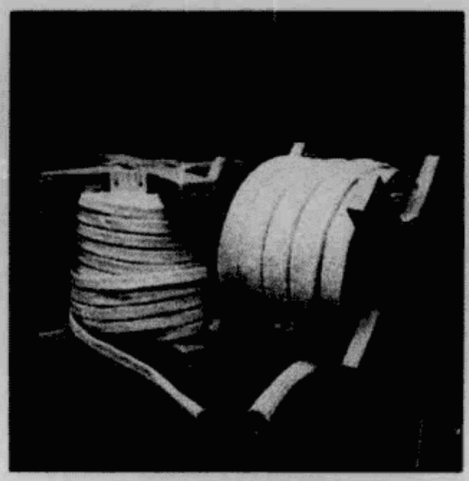
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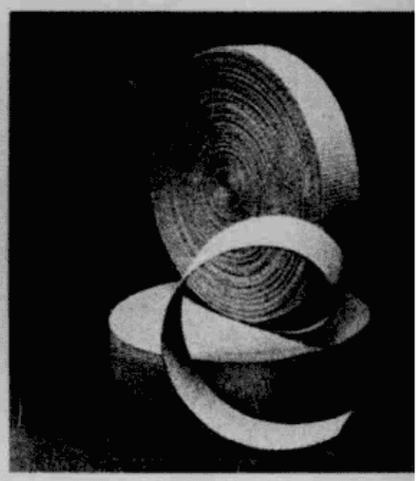
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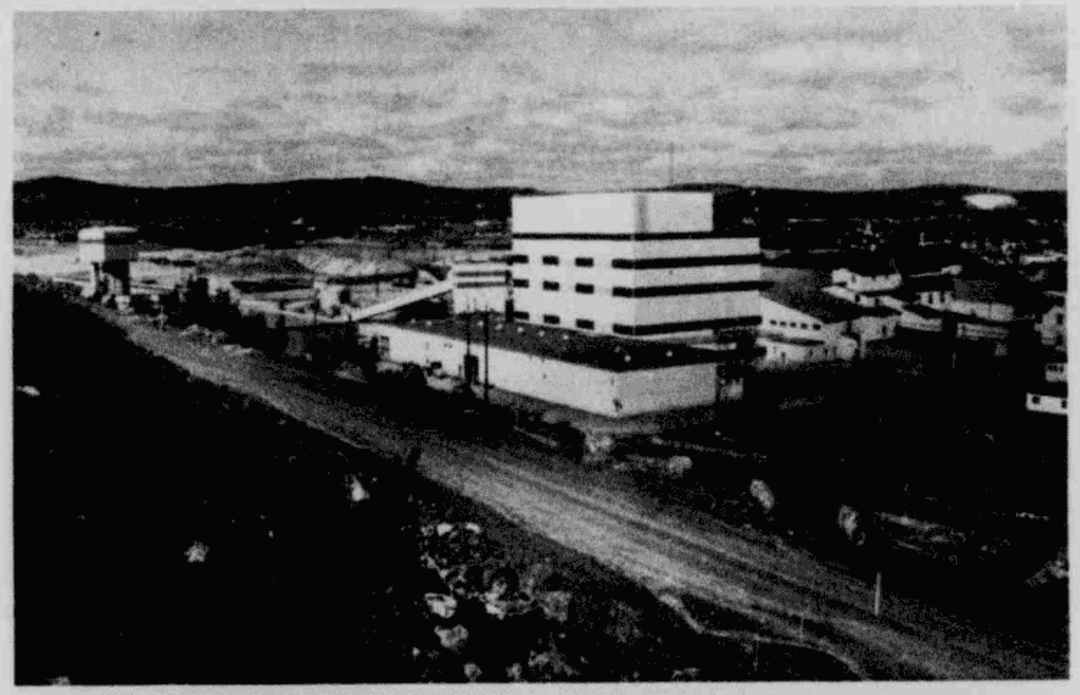


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VOLUME 61 **NOVEMBER 1979** **NUMBER 5**

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

CONTENTS

GLASS FIBER NOT THE CAUSE 4
COMPANIES & PRODUCTS 8
PROCESSING / MATERIALS HANDLING 16
MARKET CONDITIONS: GENERAL BUSINESS 22
DODGE CONSTRUCTION CONTRACTS 23
PRODUCTION—IMPORTS—EXPORTS 26
CURRENT ASBESTOS PRICES 32
MINING EQUIPMENT NEWS 34
NINE-MONTH REPORTS, 1979 38
ASBESTOS STOCK QUOTATIONS 40
MEN ON THE MOVE 42
BIRTHDAY GREETINGS 44
RETIRED: RICHARD GAZE, CAPE INDUSTRIES LTD 46
DECEASED: NORMAN FARRAR, KILBORN LTD 46
NEW ASBESTOS PATENTS 48
VALUABLE LITERATURE 52
CALENDAR OF EVENTS 54
REMEMBER WHEN? 56

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GLASS FIBER NOT THE CAUSE

Our readers will recall an item in February 1979 ASBESTOS on page 36 which relayed a news media message that "a Japanese medical researcher had reported the first evidence that fiber glass may be responsible for causing lung disease in workers similar to diseases caused by asbestos." The account also quoted the researcher as reporting that "one of the workers had developed a thickening of the lining of his lung along with calcification, or plaque, on the lung lining, a condition usually associated with the preliminary stages of mesothelioma, a disease generally expected to be caused by exposure to asbestos."

Since that item was published, we have received newer and more comprehensive information on the researcher's report. Concerning the statement that pleural plaques are a condition usually associated with the preliminary stages of mesothelioma, we quote directly from a letter received from S. F. McCullagh, M.D., B.Sc. (Med), Chairman, Medical Advisory Panel, Asbestos International Association: "I know of no evidence to support this view and believe the statement to be untrue; my opinion on this matter appears to be the generally received opinion. Thus [1]Preger et al. (1978) say "pleural plaques are not pre-malignant." Similarly [2]Morgan & Seaton (1975) say "Studies in Finland and South Africa have failed to show a definite relationship between pleural plaques and the development of mesothelioma. Indeed in some areas there seems to be an inverse relationship between them. It seems likely that these are two separate processes, though both associated with asbestos exposure."

The Japanese researcher was one Dr. Tatsuo Sano, an internationally known respiratory disease expert from Kawasaki, who issued the statements at a meeting held November 15, 1978, under the auspices of the U.S. National Cancer Institute. On July 9, 1979, NCI distributed a communique "to provide additional information which now shows that the case in question was almost certainly due to asbestos and not to exposure to fibrous glass."

It was initially believed the patient had neither lived nor worked where there was the likelihood of inhaling asbestos dust. However, Dr. Sano had issued the caveat that the findings were not

---

[1]PREGER, L., ARAI, D.T., KOTIN, P., WEILL, H. & WERCHIK, J. (1978) ASBESTOS-RELATED DISEASE, GRUNE & STRATTON, p. 45.

[2]MORGAN, W. K. C. & SEATON, A. (1975), OCCUPATIONAL LUNG DISEASES, W. B. SAUNDERS COMPANY, p. 141.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 6 of 64
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New. The Durafab BestoShield Coverall.



A low cost [illegible] designed for protection against asbestos and other carcinogens.

Durafab's BestoShield coveralls have outstanding barrier qualities because they're made of DuPont's Tyvek™, a spun-bonded olefin with a Frazier Air Permeability of .01.

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conclusive, that additional evidence from electron microscopy was necessary and that the lack of a thorough epidemiological study was an important deficiency. Nonetheless, the news media spread the word that exposure to fiber glass can cause the lung disease known as pneumoconiosis. A later, more thorough occupational history taken of the patient indicates she had held many different jobs, several of them in dusty conditions, and that there had been at least one opportunity for occupational exposure to asbestos as early as 35 years before symptoms of pneumoconiosis developed. The planned examination by electron microscopy of the tissue obtained by transbronchial biopsy has now been completed and the results show the presence of many small Chrysotile asbestos fibers, but no glass fibers, nor any fibers of other materials. The Chrysotile fibers were found in higher concentration than is normal for such tissue; they were between 0.05 and 0.07 μm diameter, and 0.3-0.5 μm long.

With the assistance of the Asbestos Information Association/North America, this Magazine has been fortunate to have obtained 20 pages of material on the subject of Dr. Sano's presentation. The material includes the NCI communication; comments by Paul Kotin, M.D., Senior Vice President-Health, Safety and Environment, Johns-Manville Corporation; two memoranda by Margaret H. Sloan, M.D., of the U.S. National Institutes of Health; a statement by James E. Hatfield, International President, Glass Bottle Blowers Association of the United States and Canada (AFL-CIO); remarks by Dr. Jon L. Konzen, Medical Director, Owens-Corning Fiberglas Corporation, and Chairman, Medical and Scientific Committee, Thermal Insulation Manufacturers Association; and a translation of a manuscript of Dr. Sano's lecture before the National Cancer Institute. Photocopies are available from this Magazine. Advance payment of $4.00 (20¢ per page) is requested in U.S. Funds on a U.S. Bank.

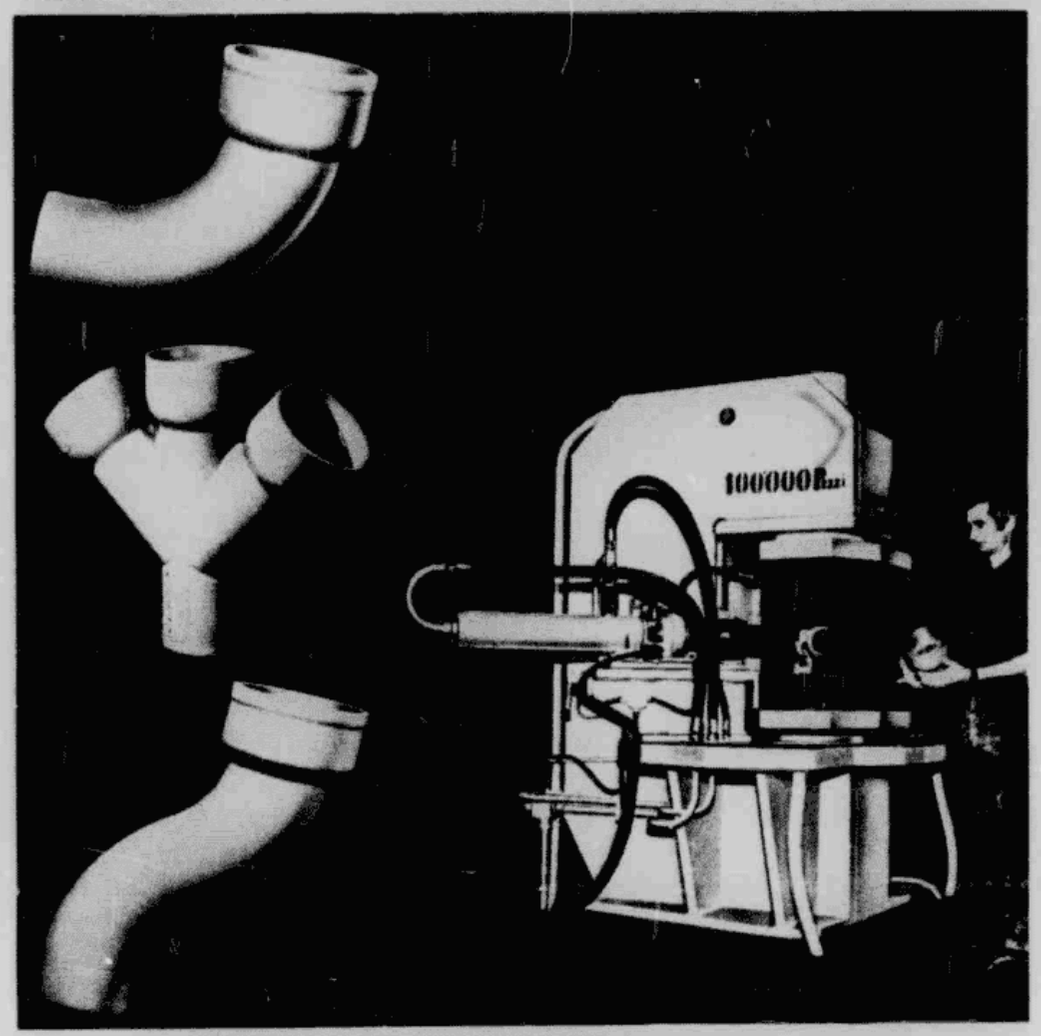
TEST MANUAL REVISED

Revision I of the Chrysotile Asbestos Test Manual, 3rd Edition, is now available, free of charge, from: *Quebec Asbestos Mining Association,* 580 Grande Allee East, Suite 320, Quebec, P.Q., Canada G1R 2K2. The basic manual provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber.

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COMPANIES & PRODUCTS

ATLAS TURNER IMPROVEMENTS

Three major projects at the Building Materials Department are well underway at *Atlas Turner Inc.*, Montreal, Quebec. The first involves complete conversion of the No. 2 Sheeting Machine so as to produce asbestos-cement fill sheets for use inside giant cooling towers. They are being supplied to a major U.S. customer under a five-year contract. The machine, which until now had been used to produce profile sheets such as roof decking and Trafford Tile, is being completely transformed from a manual operation to a modern, fully-mechanized and, to a large extent, automated machine. Considerable study and development work has also been carried out on the second project which, when completed near the end of this year, will alter the No. 1 Sheeting Machine so it can produce asbestos-cement construction materials other than fill sheets. Total investment for the two projects is estimated at $2-million. The third project, well underway and costing $270,000, is at the pipe plant for the crushing and recycling of dry waste and dust.

AVC PLANS MORE R/M STOCK

The AVC Corporation, Radnor, Pennsylvania, said it has reported to the Securities and Exchange Commission its intent to increase holdings of *Raybestos-Manhattan, Inc.*, Trumbull, Connecticut, from 7.1% to 8.6%. AVC also has the right to acquire an additional 298,639 shares of R/M stock, or about 14.2%, under a purchase and option agreement. News reports quoted an R/M spokesman as saying there is no agreement with AVC involving any current or potential merger of the two companies.

THE CAPE GROUP

Under a reorganization of the *Cape Distribution Group*, the network of United Kingdom branch companies involved in the wholesaling of automotive parts will trade under the name of Cape Automotive Ltd. and the warehouse distribution operation under the name of Cape Automotive Services Ltd. Both companies will be subsidiaries of the Cape Distribution Group holding company of Cape Distribution Ltd. . . . A £1-million modernization program is nearly completed at the Uxbridge Works of *Cape Boards and Panels Ltd.* As part of the project, all existing boardmaking

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 10 of 64
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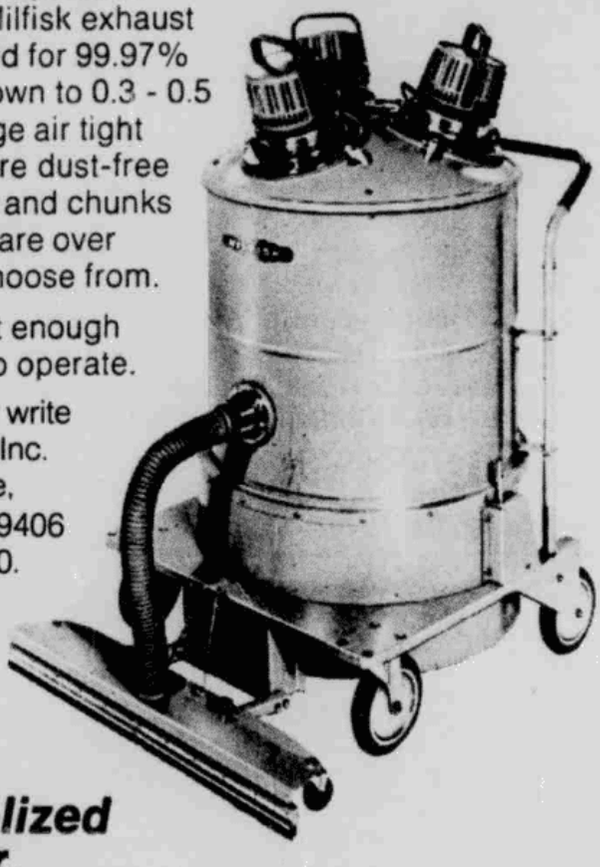
To meet clean air standards you not only need a centralized dust collector, you also need a decentralized dust collector.

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.

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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.

machines have been adapted to produce a range of asbestos-free products. . . . *Don International Ltd.* has signed two ten-year overseas licensing agreements, valued at over £75-million, thus bringing to 20 the number of Don licensing or manufacturing agreements throughout the world. One of the pacts was reached with *Fiaz Industrija Azbestnih Proizvoda*, one of the largest manufacturers of friction materials in Yugoslavia. Based at Prokuplje, in southeast Yugoslavia, Fiaz produces a wide range of friction materials and asbestos textiles. The other licensing agreement, which covers the production of clutch facings, was signed with *Jukaluma S.A.*, of San Luis Potosi S.L.P., Mexico, maker of a range of automotive components. . . . After twelve months of negotiation, *Cape Universal Claddings Ltd.* has been successful in obtaining a contract worth over £600,000 for cladding a large industrial complex in the Middle East with asbestos-cement sheets and Unilux g.r.p. This represents the largest single order ever placed with CUC. One of the difficulties was properly crating some 4,000 tonnes of asbestos-cement products for shipment, all within a tight delivery schedule.

PORTER NETHERLANDS EXPANDS

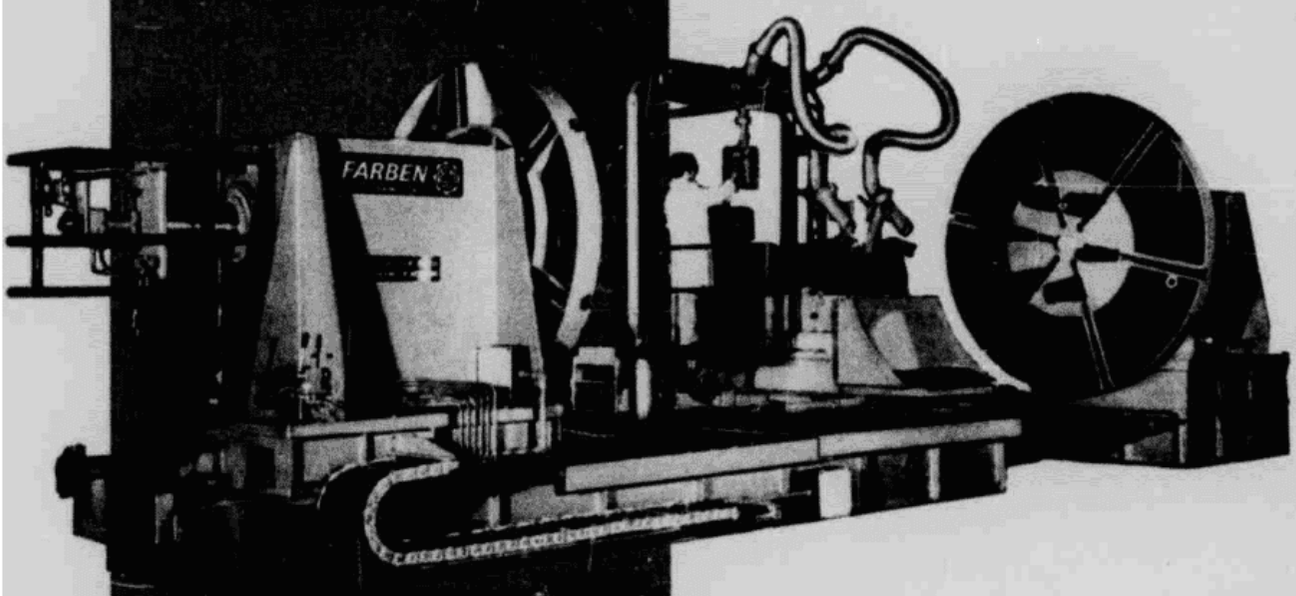
A major plant expansion which will add 35% to existing production capacity began in March 1979 at Klazienaveen Works, the largest producer of clutch facings in the Netherlands—operated by *Porter Netherlands*, a subsidiary of *H. K. Porter Company, Inc.*, Pittsburgh, Pennsylvania. The firm reports that demand for Porter products continues to increase and the newly-developed facing materials called TH846FT and TH109 have opened new markets for Thermoid clutch facings. Also reported was that new dust extractors are being installed at the plant to comply with government regulations.

FLINTKOTE/GENSTAR DEBATE

The Board of Directors of *The Flintkote Company*, Stamford, Connecticut, again delayed making a decision on whether or not to recommend its shareholders accept the previously-announced tender offer by *Genstar Ltd.*, Montreal, Quebec, to acquire Flintkote for $55.00 per share. Genstar has extended its offer to November 28, 1979, while discussions continue between it and the Federal Trade Commission concerning anti-trust issues which might be raised in a merger of the two companies. Genstar is a building materials, housing, land development and financial serv-

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ACL Doc 12727 · Page 12 of 64
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ices concern. It currently owns almost 22% of Flintkote's outstanding common stock. . . . Earlier this year a merger agreement had been announced by Flintkote and *Louisiana-Pacific Corporation*, a forest products company headquartered at Portland, Oregon. Both merger proposals continue under study by Flintkote Directors.

ORF TESTS PROTECTIVE CLOTHING

The Fire and Flammability Center of the Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, is now equipped to test the thermal resistance and insulation capability of protective clothing such as that worn by steel and refractory workers and firefighters. Following a modification of a proposed ASTM procedure, single or multi-layer clothing systems can be evaluated. A sample of the clothing is mounted horizontally over a calibrated gas burner and the heat transfer through the specimen is measured using a heat flux meter. These data are translated to indicate when second degree burn would occur. Other information can include the extent of physical damage suffered by the specimen and whether excessive shrinkage, melting or dripping has occurred.

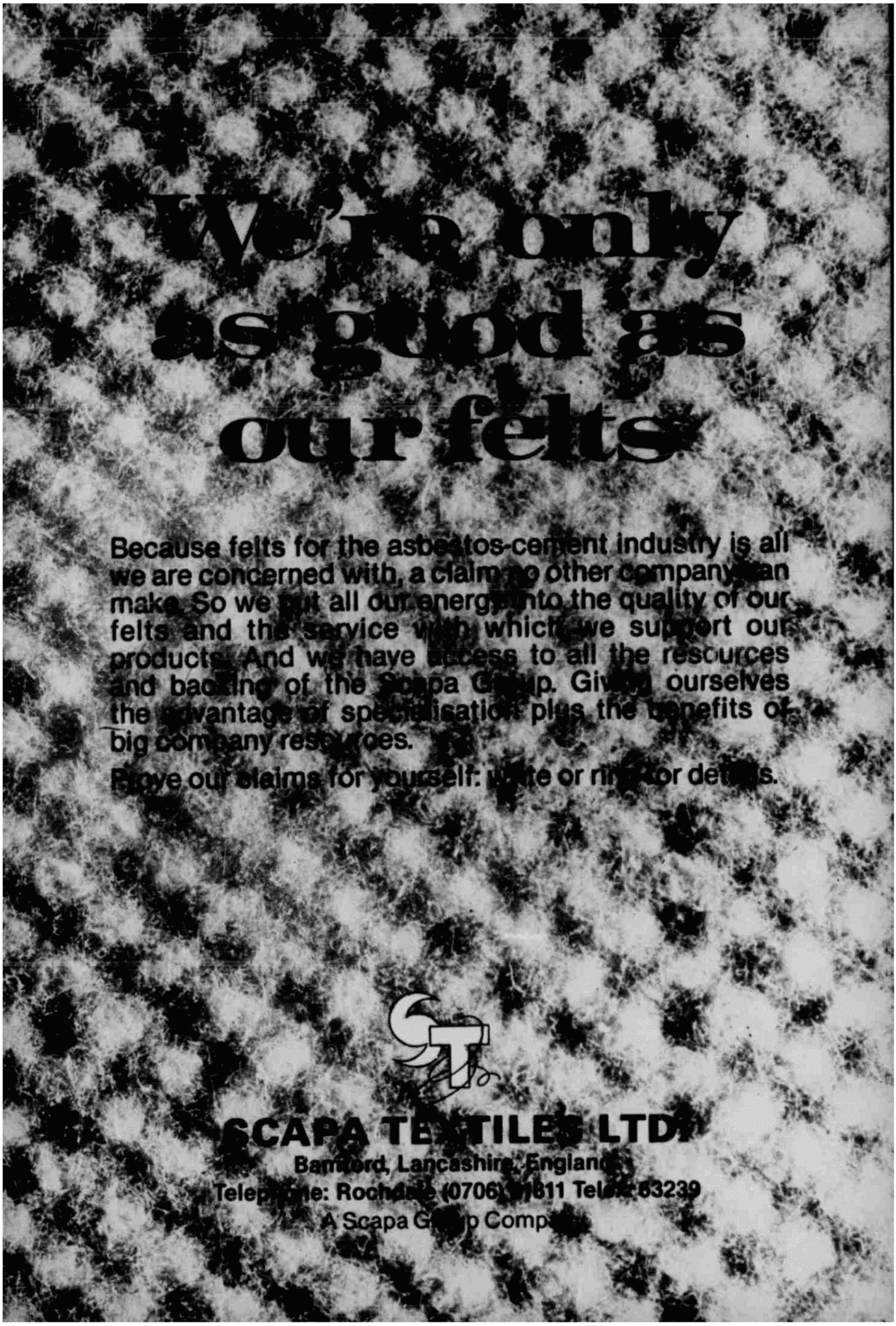
ASARCO FACT BOOK

Asarco Incorporated, New York City, has prepared a fact book to assist financial analysts, portfolio managers and others in their evaluation of the company. Given in the publication are data concerning the company's history and current business, financial history and reports, associated companies, production statistics, plant locations (including a world map), products, management, etc. Since its organization in 1899, Asarco has evolved over the years into an integrated miner, smelter and refiner of copper, lead, zinc, silver and by-product and recycled metals as well as a producer of such minerals as asbestos and coal.

SUPRADUR SHINGLES & SIDING

Supradur Manufacturing Corporation, New York City, recently issued new product bulletins to describe the characteristics and applications of its roofing shingles and siding. The company reports that because of the unique "dry process" production method, its products do not warp, dent, rot or shrink, expand or contract. They also need no electrical grounding and are fireproof and maintenance-free.

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Nearly a hundred different materials, including WELDGARD® and CLEANGARD® asbestos fabrics and tapes from *Southern Textile Corporation*, Charlotte, North Carolina, are handled by *Longhorn Gasket and Supply Company*, Dallas, Texas. Gaskets and other stamping work accounts for about 60% of Longhorn's total volume. The company has been achieving a 25% or better annual growth in the last several years and projects its business will at least double in the next four years.

DRAFT REHABILITATION GUIDELINES

The *National Institute of Building Sciences*, under contract to the *U.S. Department of Housing and Urban Development*, has submitted draft Rehabilitation Guidelines. As published in the Federal Register of November 5, 1979, the documents include: Volume 1—Administrative and Legal Guidelines for Building Rehabilitation; Volume 2—Technical Guidelines for Residential Rehabilitation; and Volume 3—Fire Ratings of Archaic Materials and Assemblies. The public review and comment period ends December 31, 1979, after which the guidelines will be revised accordingly and published in final form by April 30, 1980. The intent is to reduce, while maintaining essential levels of health and safety, those regulatory requirements which create unnecessary constraints, time delays and higher costs for building rehabilitation.

U.S. TRADE REORGANIZATION

The *Carter Administration* favors a trade reorganization plan which could be accomplished without legislation and which would be in effect by January 1980, when results of the multilateral trade negotiations take effect. Under the plan, trade policy and negotiation responsibility would be lodged in the Special Trade Representative's Office, to be renamed the Office of the U.S. Trade Representative. Top priority for the office would be implementation of the Geneva trade agreements. Part of the U.S. mission to the General Agreement on Tariffs and Trade would be transferred to that office. The U.S. Trade Representative would accept transfers from the Departments of State and Treasury to help manage commodity agreements and handle arrangements on East-West Trade. Also, the U.S. Department of Commerce would be renamed the Department of Trade and Commerce. [ATMA Executive Report]

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PROCESSING/MATERIALS HANDLING

ACTON II FROM AERODYNE

A high density, pneumatic conveying system with low energy requirements has been announced by *ACTON Corporation, division of Aerodyne Development Corporation,* Cleveland, Ohio, for conveying fine cohesive powders and friable materials without degradation. Called ACTON II, the system achieves product-to-air ratios of 80-to-1 over distances up to 800 feet at less than 50 psig. Capacities as high as 40 tons per hour are obtainable.

OHMART DENSITY GAGES

The Ohmart Corporation, Cincinnati, Ohio, announced the availablility of technical literature on the newly-introduced DENSART 3300 Series density gage line. The 3300 measures the density, or percent solids, of process materials flowing through pipes of 2″ through 14″ diameter, without touching the process materials. The gage, which can also be used with flow meters to give mass flow, includes a source holder, mounting brackets, detector, amplifier, linearizer, power supply and indicating meter. . . . Also released by Ohmart is comprehensive printed material on the recently-expanded WEIGHART 4000 Series continuous weigh scale line, particularly suited to corrosive, abrasive and other hard-to-handle materials because of the unique non-contact feature. The system consists of two basic types of scales which are used primarily to totalize or control free-flowing bulk material transported by a variety of conveyor types.

PENNSYLVANIA CRUSHER IMPACTORS

Pennsylvania Crusher Corporation, Broomall, Pennsylvania, released a brochure on its line of Pennsylvania Reversible Impactors. The brochure covers 30 sizes and models of Reversible Impactors which offer capacities of 1 to 2,000 tons per hour, at high reduction ratios. The units are used for secondary and tertiary crushing.

SEPOR MINERAL TESTING EQUIPMENT

SEPOR Laboratory Supply, Wilmington, California, has completely revised its laboratory and pilot plant equipment catalog. The new Catalog 0179 has been expanded to describe testing

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ACL Doc 12727 · Page 18 of 64
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— Complete plants with high capacity for corrugated and flat sheets, flat pressed and coloured sheets.

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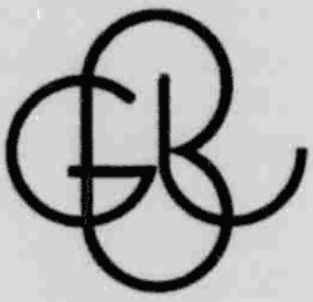
— Auxiliary machines for special sheet profiles.

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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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equipment for batch and continuous operations such as crushing, grinding, classification, concentration, hydrometallurgy, pyrometallurgy, dewatering, pumping, feeding and material handling, air handling, sample preparation and sample evaluation.

THE FLEXIBLE SERPENTIX CONVEYOR

The ability to flex from side to side has been added to the unique climbing and turning capabilities of the Serpentix conveyor, manufactured by *Serpentix Conveyor Corporation,* Denver, Colorado. In effect, flexible sections added to a standard, rigid track Serpentix will permit it to end-discharge at multiple points while operating on a permanent base. A flexible section at the receiving end of the conveyor could also let the unit receive materials from multiple input sources. The track sections are made up of interlocking steel sections which permit the rail track to bend or flex, making horizontal curves on a radius as small as 15 feet. The surface of the conveyor belt is composed of a series of pan-shaped belt sections, each having a permanently molded, 1½" high fold. The folds act like "flites," enabling the belt to convey products up steep inclines. As the folds of the belt go around the end terminals, they flatten for product release, thereby permitting continuous belt scraping.

SIMPLICITY SCREENS & FEEDERS

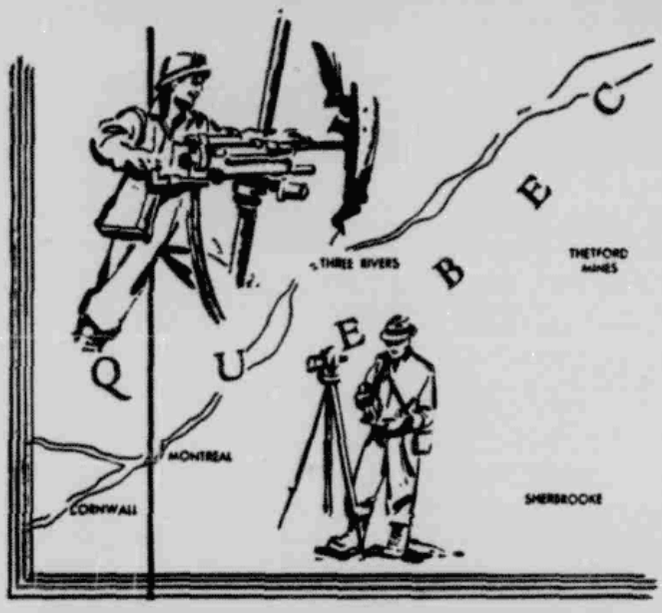
A high-performance vibrating screen, designed especially for low headroom applications, was announced by *Simplicity Engineering Division, General Steel Industries, Inc.,* Durand, Michigan, and Guelph, Ontario. The vibrating module, mounted on heavy supports over the screen deck, is easily removable for minimum downtime servicing. It is gearless for quiet operation and is powered by two electric motors, each rotating a heavy shaft with adjustable exciter weights to produce a highly-efficient straight-line conveying motion. The screen can be floor-mounted or suspended and is available in sizes 3′ x 8′ to 8′ x 20′ in single and double deck types.

FILTER SCREEN FROM TEMA

Tema Inc., Cincinnati, Ohio, a Siebtechnik Company, introduced the Fordertechnik filter screen, designed to separate solid-fluid mixtures dynamically, without vacuum. The screen is suitable for low-cost, efficient dewatering of fine coal and for reduction of

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- CHECK WEIGHERS
- CYCLONES
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- FIBRE GRINDERS
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moisture in ore, sand and gravel. The energy-saving units feature interchangeable panels for extended screen life. Machines are available in five basic sizes, with either polyurethane or wedge wire screen.

VAN GORP CONVEYOR PULLEYS

A complete line of drum, wing and custom-designed conveyor pulleys is available from Van Gorp Corporation, Pella, Iowa. A company brochure describes all hubs, bushings, accessories, etc., available by pulley size and dimension and instructs on how to order the proper pulley component.

VIBRANETICS ACQUIRED

Vibranetics, Inc., Louisville, Kentucky, has been acquired by *Penn Virginia Corporation*, a natural resources company based at Philadelphia, Pennsylvania. Vibranetics is a vibrating equipment manufacturer, i.e., bin activators, feeders, storage pile dischargers and conveyors. The firm pioneered the concept of utilizing natural frequency design for vibrating equipment, an arrangement of springs which greatly reduces energy operating requirements.

WEIGH SYSTEMS TEN-INGREDIENT BATCHER

A compact, weight hopper batch control system comprised of solid state electronics, digital display and precision, industrial-type, hermetically-sealed load cells is available from *Weigh Systems, Inc.*, Austin, Texas. The Model 4049 features fast, accurate batching of ten ingredients. Fall adjust, to compensate for material in suspension, is provided for each ingredient set point to ensure accurate batching. Manual overrides for each ingredient allow operator control.

WESMAR FLOW MONITORS

The FM Series of non-contact open channel flow monitors has been developed by *WESMAR Industrial Systems Division*, Seattle, Washington. Designed for continuous measurement and control, and economically priced, the FM2 and FM9B each contains 24 flow curves, preprogrammed into a single microprocessor and switch-selectable by the user. The series has proven effective in monitoring sewage, industrial wastes and factory run-off through primary metering devices. The units operate on the principle of sonar-in-air (ultrasonics.)

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MARKET CONDITIONS

GENERAL BUSINESS

Rising interest rates, resulting from the Federal Reserve Board's actions to limit growth of the money supply, continued to hold center stage in the business picture during November. Following the trend established in October, the prime rate at most U.S. banks rose to a new record high of 15¾% in mid-month and money market analysts generally agreed that even higher rates are likely in the future with no peak in sight.

As was expected, many businesses are already feeling the pinch of higher borrowing costs although there still appears to be an ample supply of credit provided one can afford the cost. Home builders anticipate curtailed activity as previously arranged lines of credit are exhausted. Automobile dealers are cutting prices to boost sales as the cost of carrying inventories with borrowed funds threatens to wipe out already narrow profit margins.

Evidence of cutbacks in consumer buying is particularly pronounced in the automotive field where early November sales showed a 26% drop. Part of this decrease can be attributed to fears that motor fuel supplies may again be curtailed. The three largest car builders are offering rebates to dealers in efforts to reduce inventories of 1979 model cars and trucks and additional temporary plant closings will probably occur soon.

The tension between Iran and the U.S. showed some signs of lessening as this was written but it is clear that many business and personal decisions are being held in abeyance pending resolution of the major problems.

While most economists still maintain the U.S. is either in or on the verge of a recession, statistics have been giving off confusing signals. Inconsistencies in such key indicators as unemployment and industrial production could make one wonder whether, as has happened before, the overwhelming majority opinion might just be wrong. On the other hand, assuming the upward pressure on interest rates is maintained and the rising trend of fuel prices continues, it is difficult to see how the majority of businesses can avoid their depressing effects.

After the sharp October selloff, the stock market has shown some signs of firming but bond prices remain under pressure. As some observers have noted, the bond market slump of 1979 can be compared in severity with the crash of stock prices in 1929 and a recovery will probably not start until there are signs that interest rates are peaking. It remains to be seen whether, as the campaign for the Presidential nomination heats up, political pressures will

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 24 of 64
Published by AsbestosClaims.Law
asbestosclaims.law/library/12727/24

force the Administration to relax its fight against inflation and intervene to bolster a sagging economy.

DODGE CONSTRUCTION CONTRACTS

SEPTEMBER 1979—For the third consecutive month, September contracts for new construction fell below their comparable 1978 value. The $13.3-billion of contracting for future construction of all kinds was 6% less than last year's total for the same month. The Dodge Index (1972 = 100) of total construction contract value advanced to 185 in September. July and August, the year's weakest contracting months so far, showed indexes of 165 and 163, respectively. George A. Christie, Dodge Vice President and Chief Economist, cautioned that "September's rebound in contracting is expected to be short-lived in view of the October escalation of monetary restraint by the Federal Reserve."

JANUARY-SEPTEMBER 1979—Total value of construction contracts for the first nine months of 1979 reached $128.3-billion, 5% ahead of the same period of 1978. Breakdown, by category, is: nonresidential building—$37.9-billion, up 11%; residential building—$58.8-billion, up 3%; nonbuilding construction—$31.6-billion, no change. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

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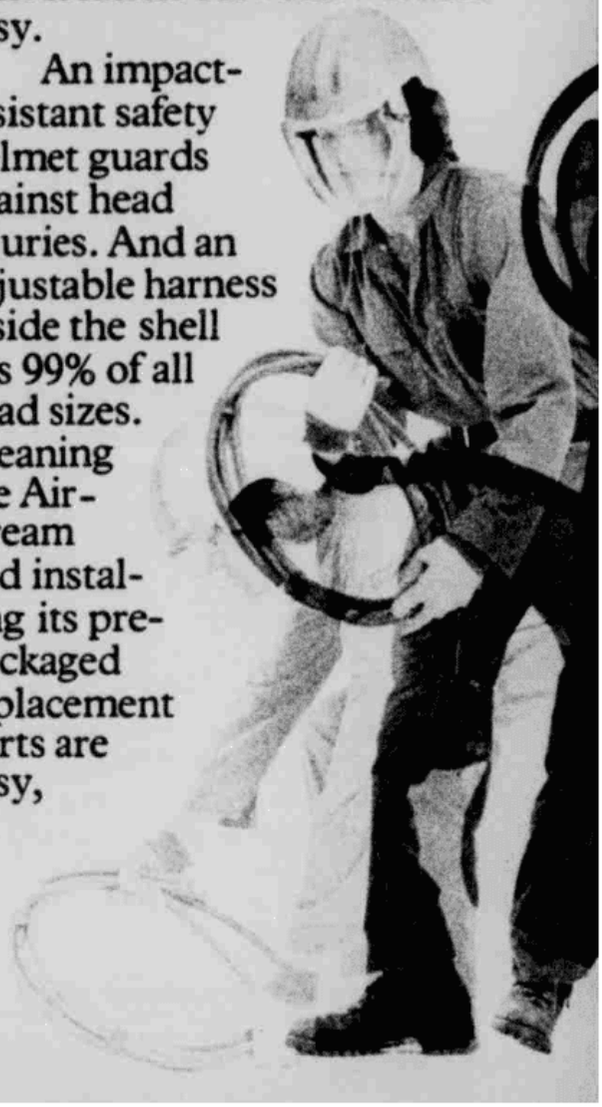
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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:

		JULY 1979	
Amosite	s.tons	..	$ ..
Crocidolite (Blue), Canada	s.tons	50	8,467
Republic of South Africa	s.tons	1,344	841,238
Chrysotile Crudes	s.tons	..	..
Chrysotile Spinning Fibers, Canada	s.tons	731	646,283
Chrysotile, Other, Canada	s.tons	39,085	8,325,379
Mexico	s.tons	3	645
Norway	s.tons	22	6,249
Republic of South Africa	s.tons	346	187,607
Other Crudes & Fibers, Canada	s.tons	810	164,371
India	s.tons	29	8,150
		42,420	$10,188,389

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	866,532	$ 1,385,219
A-C pipes, tubes & fittings	Lb	2,093,832	299,662
Other asbestos-cement articles	Lb	1,828,173	398,860
Other asbestos articles	Lb	..	574,481
			$ 2,658,222

UNMANUFACTURED ASBESTOS:

		JANUARY-JULY 1979	
Amosite, Canada	s.tons	81	$ 6,469
Republic of South Africa	s.tons	348	176,245
Crocidolite (Blue), Canada	s.tons	99	26,155
Namibia	s.tons	230	142,819
Republic of South Africa	s.tons	11,547	7,194,291
Chrysotile Crudes, Canada	s.tons	102	22,209
Italy	s.tons	18	4,356
Republic of South Africa	s.tons	403	254,336
Chrysotile Spinning Fibers, Canada	s.tons	5,888	4,673,116
Chrysotile, Other, Australia	s.tons	40	4,377
Canada	s.tons	329,805	70,906,113
Fed. Rep. of Germany	s.tons	12	7,271
Mexico	s.tons	12	2,394
Norway	s.tons	22	6,249
Romania	s.tons	22	3,666
Republic of South Africa	s.tons	1,666	972,207
United Kingdom	s.tons	22	3,763
Yemen	s.tons	22	8,397
Other Crudes & Fibers, Canada	s.tons	7,043	1,955,422
Fed. Rep. of Germany	s.tons	11	28,967
India	s.tons	164	38,950
Italy	s.tons	17	3,630

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 28 of 64
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U.S. IMPORTS—CONTINUED

Mexico	s.tons	1	1,000
Republic of South Africa	s.tons	108	46,302
		357,683	$86,488,704

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	5,659,681	$ 8,834,374
A-C pipes, tubes & fittings	Lb	17,504,962	2,601,578
Other asbestos-cement articles	Lb	18,890,334	3,673,493
Other asbestos articles	Lb	..	3,494,443
			$18,603,888

January-July 1978: U.S. imports of unmanufactured asbestos totaled 335,052 short tons, valued at $88,779,458; imports of manufactured asbestos products were valued at $18,667,385.

WOODSREEF PRODUCTION

At its Woodsreef Asbestos Mine at Barraba, New South Wales, Chrysotile Corporation of Australia Pty. Ltd. produced 18,088 metric tonnes of asbestos during the first quarter of 1979, 18,444 tonnes in the three months to June 1979 and 21,008 tonnes for the third-year to September 1979, or a total of 57,540 tonnes for the *First Nine Months of 1979*. Total output since the complex began operating in February 1972 through September 1979 amounted to 407,918.5 tonnes.

AUSTRALIAN IMPORTS & EXPORTS

For the *Quarter Ended September 1979*, Australia *imported* 6,637 metric tonnes of asbestos, valued at A$3,351,665, compared with 9,913 tonnes and a value of $4,545,034 for the same three months of 1978. Breakdown by variety of asbestos for the latest period (with comparative year-earlier figures in parentheses) is: Chrysotile, 5,250 tonnes, $2,803,123 (6,195 tonnes, $2,963,270); Amosite, 1,015 tonnes, $479,541 (2,224 tonnes, $946,816); Other, 372 tonnes, $69,001 (1,494 tonnes, $634,948) . . . *Exports* of all types of asbestos for the *Quarter to September 1979* totaled 12,550 tonnes, valued at $3,465,797, higher than the 6,816 tonnes, valued at $3,204,376, recorded in the like 1978 period. . . . Exports for the *Year to June 1979* reached 34,063 tonnes, valued at $13,164,459, compared with the following statistics for earlier like annual periods: Year to June 1978—32,145 tonnes, valued at $20,004,922; 1977—28,011 tonnes, $10,384,430; 1976—38,138 tonnes, $11,793,186; 1975—15,940 tonnes, $3,693,186. [Australian Bureau of Statistics]

CANADA FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 143,569 metric tonnes in *August 1979* compared with 164,360 tonnes in the same month a year earlier. Cumulative total for *January-August 1979* is 956,085 tonnes: 838,325 tonnes from plants in Quebec and 117,760 tonnes from plants in Newfoundland, Ontario, British Columbia and the Yukon. Total shipments for the first eight months of 1978 were 890,874 tonnes: 753,192 tonnes from Quebec plants and 137,682 tonnes from plants in the other four Provinces. [Statistics Canada]

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 29 of 64
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asbestosclaims.law/library/12727/29

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

JULY 1979

UNMANUFACTURED ASBESTOS:

Asbestos crudes, fibers & stucco	s.tons	2,693	$ 1,167,652
Asbestos sand & refuse	s.tons	681	186,233
		3,374	$1,353,885

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	506,784	$ 539,951
Asbestos-Cement shingles & clapboard	Lb	1,487,992	369,180
Other asbestos-cement articles	Lb	4,583,623	1,875,811
Asbestos gaskets	Lb	64,159	192,967
Asbestos packings & seals	Lb	1,273,348	1,597,029
Asbestos insulation		..	304,641
Brake linings & disc brake pads		..	4,656,680
Clutch facings & linings		..	790,106
Other asbestos articles		..	1,849,187
			$12,175,552

JANUARY-JULY 1979

UNMANUFACTURED ASBESTOS:

Asbestos crudes, fibers & stucco	s.tons	16,450	$ 6,246,760
Asbestos sand & refuse	s.tons	5,985	1,941,214
		22,435	$ 8,187,974

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	3,732,819	$ 4,088,230
Asbestos-Cement shingles & clapboard	Lb	12,198,515	2,865,305
Other asbestos-cement articles	Lb	27,257,162	9,410,544
Asbestos gaskets	Lb	8,558,103	2,992,857
Asbestos packings & seals	Lb	3,464,180	7,728,255
Asbestos insulation		..	2,896,627
Brake linings & disc brake pads		..	36,396,415
Clutch facings & linings		..	5,411,872
Other asbestos articles		..	12,759,486
			$84,549,591

January-July 1978: U.S. exports of unmanufactured asbestos reached 28,223 short tons, valued at $7,454,681; exports of manufactured asbestos products were valued at $70,464,949.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 30 of 64
Published by AsbestosClaims.Law
asbestosclaims.law/library/12727/30

EXPORTS FROM CANADA

From: Statistics Canada

JULY 1979

Short tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,142	25,822	10,695
Eastern Europe	..	231	3,029	160
Middle East	..	..	658	155
Africa	..	..	..	160
Asia	..	310	8,279	11,245
Oceania	..	..	1,579	84
So. & Cen. America & Antilles	..	368	6,599	3,855
United States	..	578	6,926	28,203
	..	2,629	52,892	54,557

The total amount of unmanufactured asbestos exported in *July 1979* was 110,078 short tons, valued at C$46,348,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 298,000
Asbestos brake linings & facings	281,000
Asbestos-Cement building materials	1,187,000
Other basic asbestos products	785,000
	C$2,551,000

JANUARY-JULY 1979

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	5,849	137,116	101,509
Eastern Europe	..	2,315	24,061	1,031
Middle East	..	88	4,984	830
Africa	..	..	3,737	1,756
Asia	..	2,913	76,607	75,901
Oceania	..	5	15,239	838
So. & Cen. America & Antilles	..	1,547	52,977	37,828
United States	22	4,676	71,601	277,038
	22	17,393	386,322	496,731

The total amount of unmanufactured asbestos exported in *January-July 1979* was 900,468 short tons (816,885 metric tonnes), valued at C$342,612,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 3,186,000
Asbestos brake linings & facings	2,153,000
Asbestos-Cement building materials	7,906,000
Other basic asbestos products	4,868,000
	C$18,113,000

January-July 1978: Canadian exports of unmanufactured asbestos totaled 788,448 short tons (715,280 metric tonnes), valued at C$293,620,000; exports of manufactured asbestos products were valued at C$14,440,000.

Asbestos Magazine, 1979, November 1979
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Complete plants for the production of asbestos cement pipes and asbestos cement sheets

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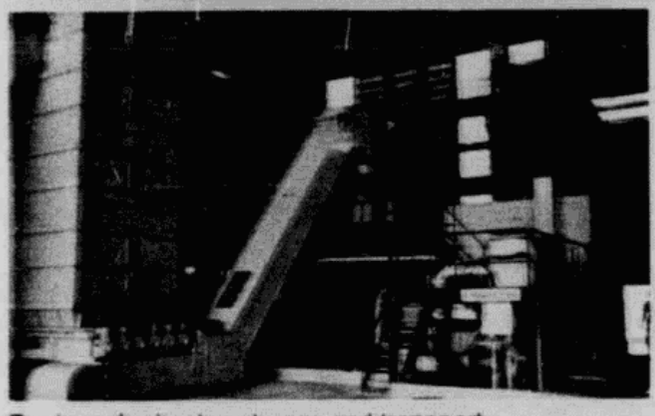
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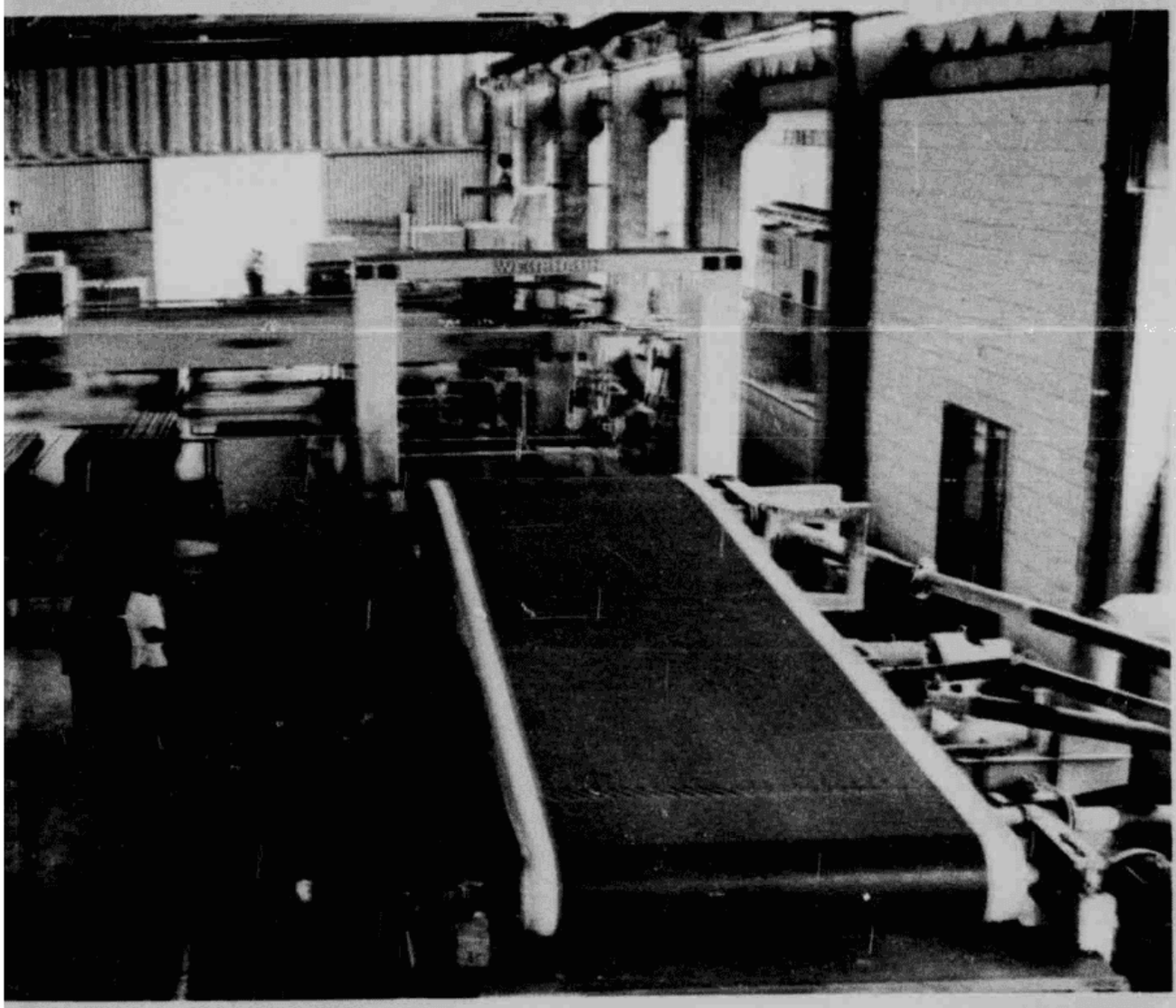
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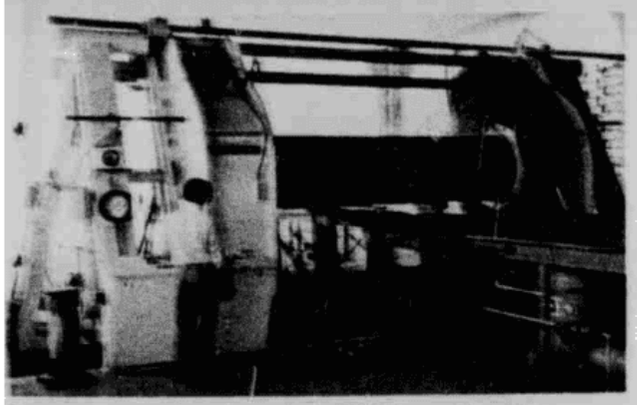


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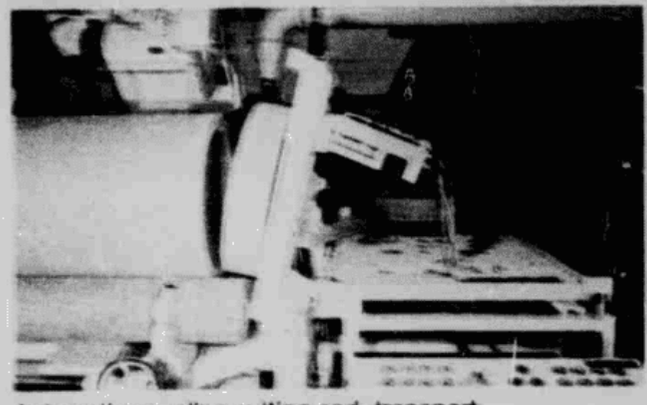
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Canadian Dollars

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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MINING EQUIPMENT NEWS

POWERFUL HYDRAULIC SHOVEL FROM O&K

The RH 300 heavy-duty hydraulic shovel was introduced last month by *O&K Orenstein & Koppel AG*, Dortmund, Germany. With a service weight of 430 metric tonnes and an engine output of 1750 kilowatts (2352 horsepower), the RH 300 is the largest and most powerful hydraulic shovel in the world, reports O&K. It was developed by the company to meet the demand for large-capacity, high-performance, open-pit mining machines to remove overburden and to extract underlying minerals and ores. For loading rock and other overburden, the shovel uses a clamshell bucket with a capacity of 22 cubic meters as standard equipment. For coal, bauxite and other light materials, there is a 30 m^3 bucket and for ore and other heavy materials a 17.5 m^3 bucket. Maximum dumping height is 12 meters and maximum reach is 16.2 meters. Backhoes up to 15.3 m^3 capacity are available. A maximum digging depth of 17.8 meters can be achieved and maximum digging reach is 27 meters.

The RH 300 is powered by two parallel drive units, with either diesel or electric primary drive. For the diesel drive, two water-cooled KTA 2300 Cummins-Diesel engines are employed. The engines operate at a constant speed of 1950 rpm, ensuring economical operation and long service life. The fuel tank carries fuel for 22 hours of uninterrupted operation.

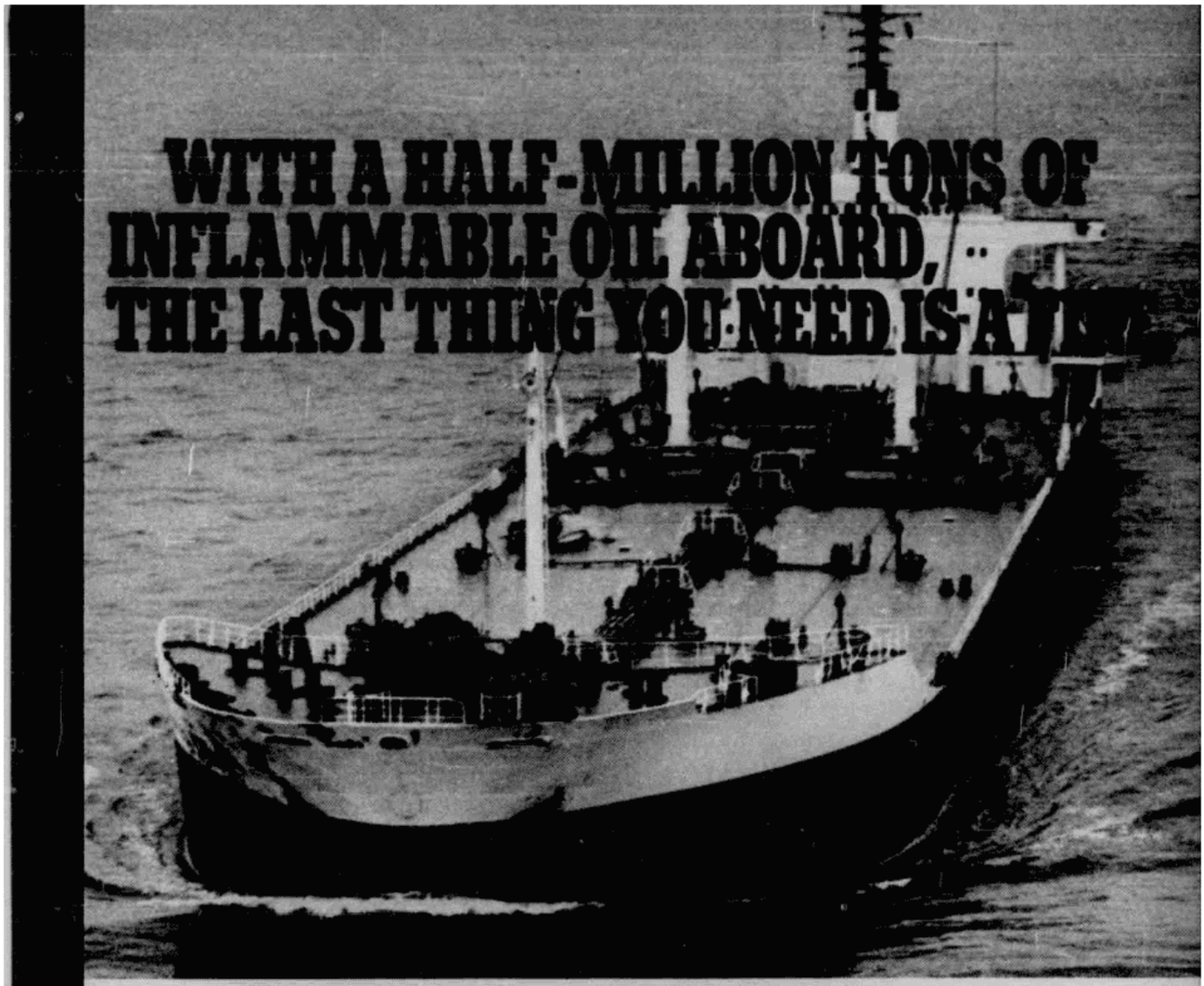
The entire hydraulic system is protected against contamination both by the system's high pressure and by return filters. Two large aluminum coolers are provided to dissipate excess heat. Each one is connected to a separate circuit served by a separate drive unit. The running gear of the undercarriage is an O&K development, being applied for the first time. The unique design provides a maximum speed of 2.75 kilometers per hour, unusually fast for a shovel of the size and weight of the RH 300.

The cab, with its large windows all around, gives the operator excellent visibility over the working area. All electrical controls essential to the shovel's operation are incorporated in the arm rests of the operator's seat, which is air-suspended. The soundproof cab rests on a shockproof mounting and has winter and summer air conditioning. All incoming air is thoroughly filtered.

HRC COMMUNICATIONS SYSTEMS

The TUNNEL-COM™ has been designed and is being manufactured by *Harrison R. Cooper Systems, Inc.*, Salt Lake City, Utah, for voice communication between base station and mobile equipment in haulage tunnels or other underground workings. The apparatus is a medium frequency radio system which includes features such as FM for maximum voice clarity and crystal filtered IF stages for optimum rejection of RFI noise. It is provided with a paging speaker and handset for normal conversation. The enclosure is dustproof and watertight and the printed circuit boards and connectors are protected from moisture. Each system is custom designed for

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 36 of 64
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The environmental consequences of a burning super-tanker would be disastrous. So would the loss of life.

An empty supertanker is even more dangerous. It can simply explode from a small spark in the wrong place.

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individual mine conditions. Power output can be increased or lowered to obtain optimum signal-to-noise ratio. Receiver sensitivity is adjustable to less than 1.0 microvolt to meet individual conditions. It does not require leaky feeder cable but uses existing telephone, power or any underground conductor. Mine vehicles can transmit up to 30 feet from vehicle to any existing carrier cable.

Other HRC communications systems include the ROPE-O-COM™ for voice communication between cage and hoistroom and between cage and ground level; CAGE-ALERT™, which is a radio signal cage safety system with an emergency stop feature; and MINE-CALL™, a hard-wire system of voice communication for underground paging and station-to-station communication.

NEW SCOPE FROM MINES BUREAU

A fiberoptic instrument which permits safety experts to look inside bolt holes drilled into mine roof rock has resulted from research by the *Bureau of Mines, U.S. Department of the Interior.* The optical device is a commercially available unit, adapted by the Bureau for use in mines as a flexible stratascope. It lets miners look several feet inside ordinary roof bolt holes to check for fractures or other characteristics in the overhead rock layers which might produce a roof failure. The instrument is small, flexible and can be used to examine roof rock through ordinary roof bolt holes that are uneven or that have a diameter as small as one-half inch. The scope consists of four bundles of smooth, transparent glass fibers capable of conducting light by multiple internal reflections. The end of the bundle assembly which goes inside the hole holds a right-angle mirror or prism attachment which produces a circular image and allows a 40° view of the inside of the hole. At the other end of the bundle is an eyepiece, which can be replaced with a camera, and a light powered by a Bureau-developed battery pack. Three of the fiberoptic bundles transmit light to illuminate the rock layer being examined, and the image is reflected back through the larger central bundle.

I-R BLASTHOLE DRILLING RIGS

Three Drillmaster single-pass, rotary-table blasthole drills are described in a new brochure (Form 4500) from *Ingersoll-Rand Company,* Woodcliff Lake, New Jersey. The three units (the Drillmaster DM20-SP, DM25-SP and DM35-SP, capable of drilling to 40, 50 and 65 feet in a single pass) feature a simple mechanical-drive rotary table which delivers full engine torque directly to the kelly bar. Simple centralized controls make one-man operation easy. Without leaving the cab, the operator can tram, set the jacks, raise and lower the tower, drill and retract. Air for hole cleaning is provided by an I-R Spiro-Flo® compressor, matched to engine size and air requirements. The hydraulic track drive is totally enclosed to keep out rock dust and dirt. A single diesel engine provides ample power for all tramming, set-up and drilling functions. Simple deck layout, with ample room for easy access to all components, makes inspection and maintenance fast and easy.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 38 of 64
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NINE-MONTH REPORTS, 1979

RAYBESTOS-MANHATTAN, INC.

Net sales of Raybestos-Manhattan, Inc., for the 39 weeks ended September 30, 1979, were $230.3-million compared with $212.6-million for the comparable period last year—an increase of 8.3%. Net income, at $7-million ($3.34 per share) was behind last year's $8.3-million ($4.04 per share). Although total sales for the third quarter were 5.7% ahead of last year, unit volume was down about 2%, primarily because of a softness in demand for some highly profitable industrial products and certain passenger car original equipment parts and standard rivets. The Board of Directors declared a quarterly cash dividend of 40¢ per share payable October 1, 1979, to holders of record September 7, 1979, and a 10% stock dividend payable November 16, 1979, to holders of record October 15, 1979. This is the fourth consecutive annual stock dividend, following a 10% stock dividend in 1978, 10% in 1977 and 20% in 1976.

The costs of complying with government regulations and legal costs sustained to wage an aggressive defense against the product liability suits related to asbestos have been and will continue to be a substantial cost factor for R/M. In addition, the corporation continues to absorb increasing insurance and environmentally-related costs.

ASBESTOS CORPORATION LTD.

According to its unaudited consolidated comparative statements of earnings, Asbestos Corporation Ltd. had net earnings of $12.8-million for the nine-month period ended September 29, 1979, 33% above the like period a year earlier. Sales totaled $126.4-million compared with $101.4-million. Working capital was $71.1-million or $25.05 per share, with fiber inventories valued at cost. Shareholders' equity at the end of the third quarter was $154.2-million or $54.35 per share. On November 6, 1979, the Directors declared a 60¢ dividend per share, payable December 30, 1979, to shareholders of record December 7, 1979. List prices for asbestos-cement grades of asbestos fiber were increased an average of 8% on July 1, 1979, and an additional average 8% price increase has been announced, effective January 1, 1980. The company reports a strong demand for asbestos-cement grades.

CERTAINTEED CORPORATION

CertainTeed Corporation reported sales for the first nine months of 1979 as $685.6-million against $680.8-million for the prior year. Net income dropped to $14.9-million from $42.1-million. A significant factor in the deterioration of profits was the increased costs for petroleum-based raw materials—costs which exceeded inflation rates—coupled with the company's inability to offset those increases through its own pricing actions. All-time records for roofing sales and shipments were established, while vinyl siding shipments were on par with the record-setting second quarter and 48% over last year's third quarter. Glass fiber product sales were equivalent to 1978 but operating profits were down substantially. Start-up

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 40 of 64
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expenses and higher depreciation costs associated with the glass fiber expansion program and reduced demand for some product lines contributed to the earnings decline. Demand and shipments for residential insulation increased as anticipated over the earlier quarters of 1979. Piping product sales were up slightly over last year's third quarter. Operating profits were down, the result of higher raw material costs that had an adverse effect on PVC products coupled with a developing slowness in the asbestos-cement pipe market.

SUPRADUR MANUFACTURING CORPORATION

Sales for Supradur Manufacturing Corporation for the nine months to September 30, 1979, totaled $23.8-million, compared with $18.9-million in the corresponding 1978 period. Net income reached $1.4-million or $1.35 per common share vs. $703,922 or 69¢ per share the prior year. The good results were primarily due to the strength in Supradur's siding and roofing business.

CASSIAR ASBESTOS CORPORATION LTD.

Total revenues for the nine-month period to September 30, 1979, were $64-million, 12.5% below the $73.2-million in the same period of 1978. Net income reached $9.6-million or $1.75 per share, down 26.8% from the prior year's $13.1-million.

ASBESTOS STOCK QUOTATIONS

CLOSE—OCTOBER 23, 1979

Abitibi Asbestos	C$.74
Advocate Mines	C$2.25
Armstrong Cork	15⅝
Armst Cork (pfd 3.75)	41
Asarco	24¾
Asbestos Corporation	37
Bendix	39½
Bendix (pfd 3)	78½
Carlisle	22⅝
Cassiar Asbestos	C$10.00
CertainTeed	15⅛
Charter Conso	pence 174
Colt Industries	42¼
Colt Ind (pfd 1.60)	33½
Colt Ind (pfd 4.25)	92
Conwest	C$6.00
Flintkote	51
F-kote (pfd-B 2.25)	68
GAF Corporation	9⅝
GAF (pfd 1.20)	14½
Gulf & Western	14
G&W (pfd 2.50)	31
G&W (pfd 3.87)	72½
G&W (pfd 5.75)	72½
IC Industries	24⅞
IC Ind (pfd 3.50)	38½
Johns-Manville	22¼
J-M (pfd 5.40)	56
Kennecott Copper	24¼
Lear Siegler	17½
Lear Siegler (pfd 2.25)	42½
McAdam Mining	C$.32
National Gypsum	19⅛
Pathfinder	C$.39
Porter, H. K. (pfd 5.50)	75⅞
Raybestos-Manhattan	22
Rio Algom	C$28.375
Rio Algom (pfd 5.80)	C$78.00
Supradur	Bid 4¾; Asked 5½
Union Carbide	39
United Asbestos	C$4.75
Walter, Jim	28⅛
Walter, Jim (pfd 1)	10¼
Walter, Jim (pfd 1.60)	30
Woodsreef Minerals	Bid C$.47

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 42 of 64
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MEN ON THE MOVE

AMERICAN SOCIETY FOR TESTING AND MATERIALS

Wayne P. Ellis was recently elected President, for a one-year term, of the American Society for Testing and Materials. He is Manager of Industry Standards for the H. B. Fuller Company, Spring House, Pennsylvania. The new, two-year Vice Presidency will be filled by *William A. Goodwin,* Associate Vice President for Research, Tennessee Technological University, Manchester, Tennessee.

CAPE INDUSTRIES LTD.

A. C. Reeks was appointed to the Board of Cape Contracts Ltd. as Finance Director and Company Secretary. *R. A. Paine* is now Chairman of Cape Insulation (Ireland) Ltd., replacing *W. R. Doughty* who remains on the Board as a Non-Executive Director. *R. A. Paine* was named Chairman of Cape Insulation Services Ltd. *D. Llewellyn,* former Chairman, remains on the Board as a Non-Executive Director.

CASSIAR ASBESTOS CORPORATION LTD.

Peter C. Jones was appointed by Cassiar Asbestos Corporation Ltd. as Manager of its Cassiar Mine at Cassiar, British Columbia. He joined the company in 1976 and had been Production Superintendent.

THE INSTITUTION OF MINING AND METALLURGY

J. T. M. Taylor was unanimously elected President of The Institution of Mining and Metallurgy for the 1980-81 session, succeeding *Dr. D. A. Temple.* Since 1962, Mr. Taylor has been employed by Union Corporation, London, England.

JOHNS-MANVILLE CANADA INC.

Roger Mercier has been promoted to the position of Production Superintendent at the Asbestos Plant of Johns-Manville Canada Inc. He will report to *A. R. Morrill,* Plant Superintendent, and will be responsible for all plant manufacturing activities. *Jean-Marie Fecteau* has joined J-M Canada as Supervisor in the Open Pit Mine Department. He has just graduated from Laval University as a Mining Engineer.

RAYBESTOS MANHATTAN, INC.

The Board of Directors of Raybestos-Manhattan, Inc., elected *Charles A. Fried* a Vice President of the corporation. He joined R/M as Treasurer in 1973.

TURNER & NEWALL LTD.

It has been announced by Turner & Newall Ltd. that *C. W. Newton,* Managing Director in charge of Manufacturing Operations, has been appointed Group Managing Director, effective immediately.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 44 of 64
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Avenue Louise, 218-222
1050 Brussels, Belgium

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ACL Doc 12727 · Page 45 of 64
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BIRTHDAY GREETINGS to . . .

Morris J. Baty, a Director, BBA Group Ltd., Cleckheaton, West Yorkshire, England, December 15.

J. L. Newby, Managing Director, Humes Ltd., Melbourne, Victoria, Australia, December 18.

Faustin J. Solon, Jr., Vice President-Corporate Relations, Johns-Manville Corporation, Denver, Colorado, December 18.

B. J. Pigg, Executive Director, Asbestos Information Association/North America, Arlington, Virginia, December 19.

Frank Betts, Director of Human Resources, Atlas Turner Inc., Montreal, Quebec, December 20.

S. Kuchinski, General Mill Foreman, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, December 20.

Dr. Stephen Holmes, Consultant, TBA Industrial Products Ltd., Rochdale, Lancashire, England, December 23.

A. W. G. Gibb, General Traffic Manager, Asbestos Corporation Ltd., Montreal, Quebec, December 25.

J. C. McKendry, Jr., Vice President, Niagara Insulations Company, Buffalo, New York, December 27.

J. B. Reid, Chairman, James Hardie Industries Ltd., Sydney, New South Wales, Australia, December 27.

William J. Barkell, Vice President-Sales, A & M Insulation Company, Chicago, Illinois, December 28.

P. Osborne, Managing Director, Don International Ltd., a subsidiary of Cape Industries Ltd., Manchester, England, December 28.

F. P. Parkes, Chief Executive, Automotive and Engineering Division, and a Director, Cape Industries Ltd., London, England, December 29.

Noel W. Hendry, General Manager, Mining Division, Johns-Manville Corporation, Denver, Colorado, January 2.

Joseph A. Munder, Jr., Mid-West Regional Manager, Carey Canada Inc., Plano, Illinois, January 2.

William H. Price, President, Garlock of Canada Ltd., Toronto, Ontario, January 2.

Hugh R. Snyder, President, Brinco Ltd., Mississauga, Ontario, January 2.

Octave Mousseau, Vice President and Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, January 3.

Edmund M. Fenner, Director-Technical Relations, Environmental Affairs Department, Johns-Manville Corporation, Denver, Colorado, January 4.

N. Venkataraman, Managing Director, Hindustan Ferodo Ltd., a subsidiary of Turner & Newall Ltd., Ghatkopar, Bombay, India, January 4.

Charles L. Horst, Manager, Norristown Plant, Nicolet Inc., Ambler, Pennsylvania, January 5.

Maurice E. Taschereau, President and Chief Executive Officer, Asbestos Corporation Ltd., Montreal, Quebec, January 5.

Lawrence B. Row, Vice President-Materials and Sales Services, Raybestos Friction Materials Company, Trumbull, Connecticut, January 7.

B. C. Julien, Vice President-Corporate Relations, Asbestos Corporation Ltd., Montreal, Quebec, January 8.

A. P. Higgins, a Director, James Hardie Industries Ltd., Sydney, New South Wales, Australia, January 10.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 46 of 64
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Alan R. Dennis, Vice President and Division Controller, Asbestos Fiber Division, Johns-Manville Canada Inc., Asbestos, Quebec, January 11.
J. A. Kerns, Sales Manager, Original Equipment Division, Raybestos Friction Materials Company, Trumbull, Connecticut, January 12.
Alexander Smith, Vice President-Sales, Southern Textile Corporation, Charlotte, North Carolina, January 13.

RICHARD GAZE—RETIRED
CAPE INDUSTRIES LTD.

Richard Gaze, PhD., F.R.I.C., retired November 9, 1979, from the Board of Directors of Cape Industries Ltd, London, England, after 36 years of valuable service to the company and the Asbestos Industry.

Dr. Gaze is respected worldwide for his profound knowledge of mineral fibers, especially asbestos in all its forms. His career with Cape began at Barking, Essex, in the 1940's when he assumed responsibility for the company's Central Laboratory. Cape reports he quickly brought his intellectual qualities and scientific training to bear on the technical problems of the day and his work on formulations for molded brake linings and disc pads still form the basis for modern products. His deep understanding of the chemistry of the materials and processes involved in creating resistance to heat transference lies at the root of many of Cape's most valuable products today.

In 1961, when Cape was reorganized and grouped into operating subsidiaries, Dr. Gaze became an Executive Director of the main Board and Chairman of one of the principal subsidiaries of the firm. He also acted as Technical Adviser to a number of other Cape companies, particularly those involved with mining in South Africa.

He also gave several years of service as a valuable Member and Chairman of The Asbestosis Research Council. Although retired from Cape, Dr. Gaze remains active as a Consultant to the company on environmental matters and as Chairman of the Executive Committee of the Asbestos International Association.

NORMAN FARRAR—DECEASED
KILBORN LTD.

We regret to report the recent demise of *Norman Farrar, P.Eng.*, of Kilborn Ltd., Toronto, Ontario. Mr. Farrar died in his 80th year, having spent most of his professional career in the Asbestos Industry.

A few years after graduating in 1925 from McGill University as a Mechanical Engineer, Mr. Farrar joined Canadian Johns-Manville Co. Ltd. as a Mill Design Engineer. Sixteen years later, in 1952, he embarked on a new career, joining Kilborn Engineering Ltd. as Chief Mechanical Engineer and a Director of the firm. In those capacities he was responsible for many asbestos mining projects on behalf of Kilborn, including but not limited to Johnson's Asbestos, Lake Asbestos, Clinton Creek, Cassiar, Hedman, Jefferson Lake Asbestos and Zidani, Greece. He retired from Kilborn in 1976 but continued his "asbestos career" by acting as a private consultant.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 48 of 64
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British 1,545,081—A friction facing for clutches and brakes is prepared by extruding a mixture of Chrysotile asbestos, phenol formaldehyde resole or novolak resin, industrial methylated spirit, rubber-styrene-butadiene crumb, brass swarf, mineral fillers and carbon black through a die to orient the fibers in a parallel manner, and spirally winding the extrudate into a disc-like preform in which the fibers are circumferentially aligned; E. H. McOmbie; assigned to Automotive Products Ltd., May 2, 1979; 6 pages.

British 1,548,267—The filtration properties of Chrysotile asbestos are improved by heating the fibers in a muffle furnace at a temperature and for a period of time to improve the properties but not to effect any dehydroxylation, thereby avoiding undesirable loss of overall fiber strength; assigned to Ontario Research Foundation, July 11, 1979; 6 pages.

British 1,548,268—The filtration properties of Chrysotile asbestos to be used in resin compositions is improved by heating fine fractions of Group 4 or 5 fiber at a temperature of 500-550°C for a period of from 2 to 3 hours and simultaneously pressure-packing the heated fiber; R. W. Glass & R. A. Kuntze; assigned to Ontario Research Foundation, July 11, 1979; 4 pages.

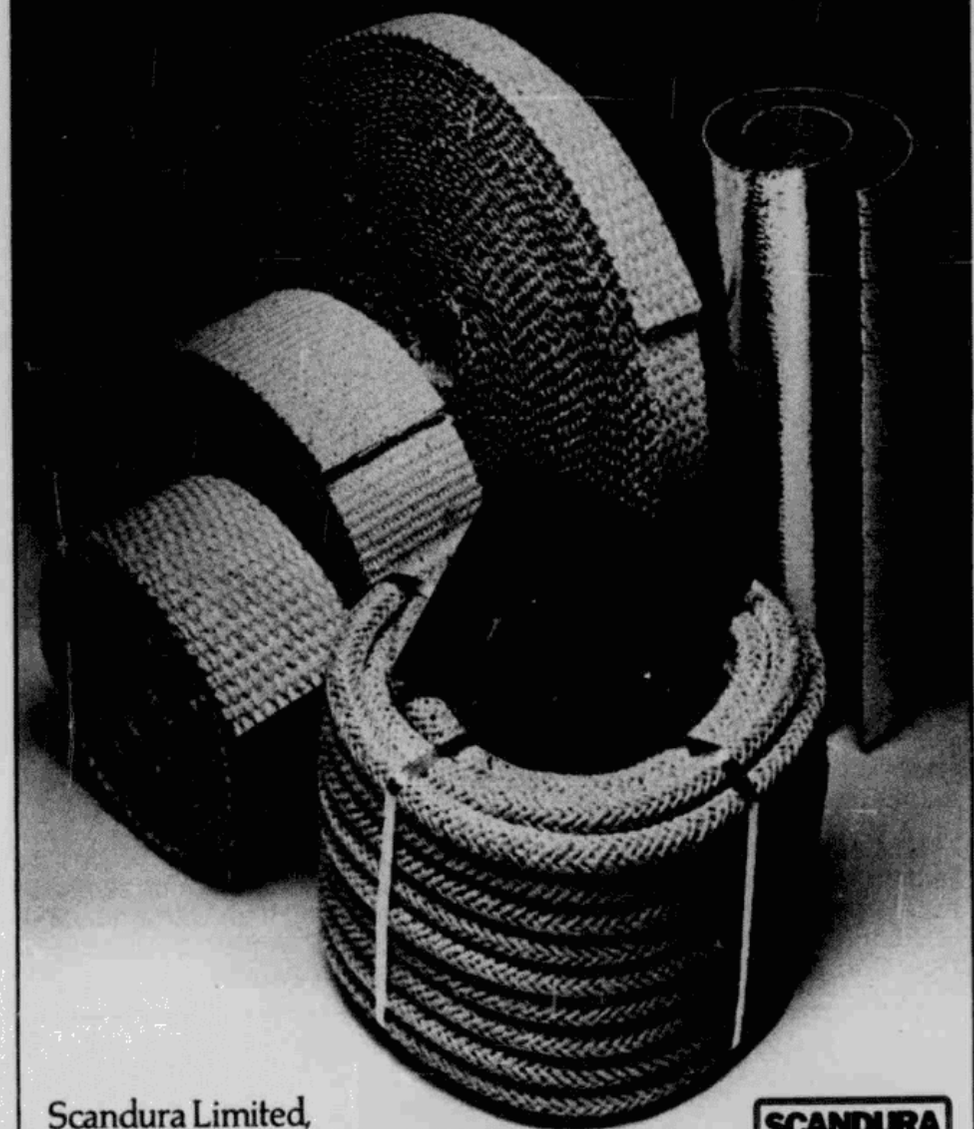
British 2,001,328—Difficult-to-defiberize Chrysotile asbestos ore bundles are treated with an anionic, non-ionic, cationic or amphoteric surfactant and then wet ground to produce a slight fluffing of the fibers which facilitates subsequent classification; V. J. Absalon, G. T. Hurst, J. C. Workboys, G. H. Barnett & R. P. Dickson; assigned to ICI Australia Ltd., January 31, 1979; 20 pages.

British 2,003,088—A disc brake pad is formed from (1) a friction layer comprising rubber, asbestos, a metal or alloy, barium sulfate, curing agents and/or accelerators and other conventional ingredients, and (2) a backplate layer of asbestos, an organic resin, rubber, a filler and curing agents and/or accelerators; the layers are hot-pressed together in a mold and the molded shape cured; J. P. Durrieu & G. Pomes; assigned to Abex Pagid Equipment S.A., March 7, 1979; 5 pages.

British 2,003,182—In the production of an improved asbestos diaphragm for an electrolysis cell, an asbestos felt is formed on a foraminate support, the felt treated with aqueous sodium chloride and/or sodium hydroxide and the treated felt dried and compacted by passing through it a current of warm air; G. Niccolini & E. Nicolas; assigned to Solvay & Cie, March 7, 1979; 6 pages.

Canadian 1,047,441—The life of a diaphragm used in a cell for the electrolysis of sodium chloride brine is increased by treating the anolyte side

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of a commercial Chrysotile asbestos diaphragm with a water-soluble silicate and then with an acid to make the silicate coating substantially insoluble; F. Strain; assigned to PPG Industries, Inc., January 30, 1979; 15 pages.

Canadian 1,052,099—An exothermic lining for use in metal foundries comprises a loose powder or plates or other shapes formed of a mixture of 40-60% by weight of aluminum dross, 1-12% of asbestos, 3-6% of a binder, 7-25% of aluminum powder or aluminum swarf, up to 1% of a wetting agent, about 3% of iron oxide and/or manganese oxide and not over 6% of cryolite; J. Tisza; assigned to TIDO Chemische-technische Produckte GmbH, April 10, 1979; 15 pages.

Canadian 1,057,699—In the manufacture of a dimensionally stable asbestos diaphragm for use in the electrolysis of brine, a cathode is inserted into a slurry of asbestos and polytetrafluoroethylene, a vacuum applied, the coated cathode removed from the slurry and heated to cause the polymer to bind the fibers and the coated cathode cooled to room temperature; R. W. Fenn, E. J. Pless, R. L. Harris & K. J. O'Leary; assigned to Diamond Shamrock Corporation, July 3, 1979; 18 pages.

Canadian 1,062,096—The filtration characteristics of asbestos for use in asbestos-cement products are improved by treating the fibers first with an aqueous solution of a phosphate compound and then with a sodium salt of a condensed naphthalene sulfonic acid as a non-foaming anionic dispersant; F. M. Bodycomb, Jr.; assigned to Johns-Manville Corporation, September 11, 1979; 28 pages.

U.S. 4,152,168—Roofing panels of good mechanical strength, freeze-thaw resistance and heat insulating properties are made by kneading, molding, coating and curing a mixture of asbestos, silica sand, silica flour, titanium oxide, Portland cement and a pigment; N. Yano & K. Sato; assigned to Kubota Ltd., May 1, 1979; 4 pages.

U.S. 4,152,494—A flame-resistant, insulative material is made by heating a mixture of 30-80% of asbestos and 20-70% of polyphenylene, molding the resulting foam into a desired shape and cooling and removing the shape from the mold; C.-S. Wang; assigned to Standard Oil Company (Indiana), May 1, 1979; 4 pages.

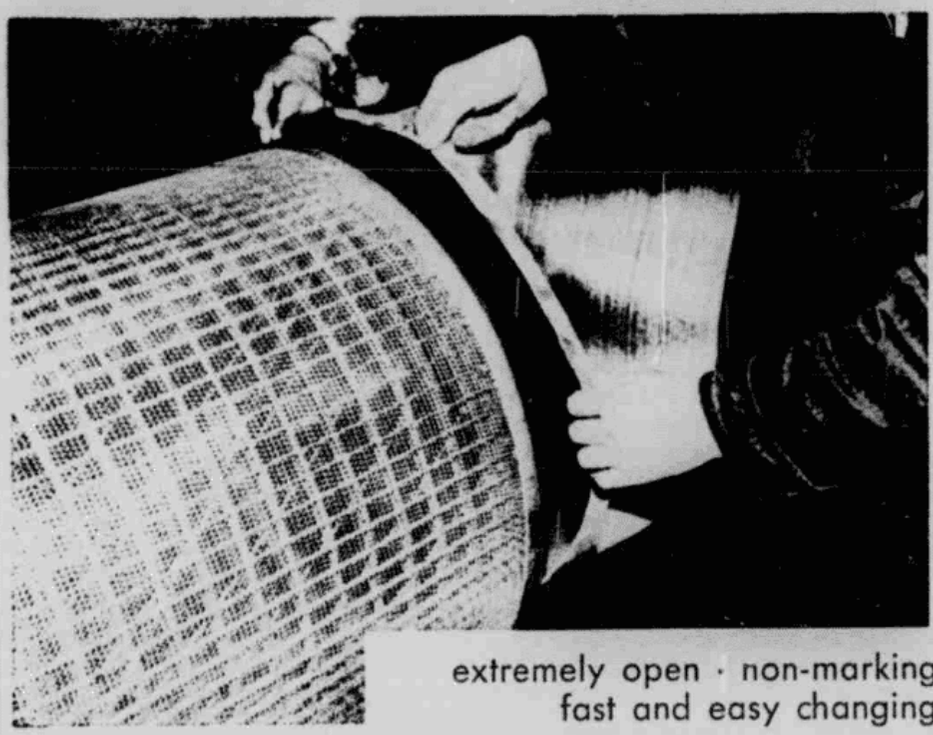
U.S. 4,168,346—The hemolytic activity of asbestos is lessened by contacting the fibers first with an aqueous solution of a chloride, sulfate or nitrate of an alkali metal or alkaline earth metal and then with a solution of sodium tungstate or comparable tungstate salt; P. A. Pezzoli; assigned to Dow Chemical Company, September 16, 1979; 7 pages.

—NEXT ISSUE—

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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 NOVEMBER 1979 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

RESOURCE CONSERVATION AND RECOVERY ACT: A COMPLIANCE ANALYSIS—Proceedings of the 1978 Hazardous Wastes/RCRA Seminar; contains ten papers covering the aspects and regulatory compliances of the Act. [$18.00; 162 pages; Government Institutes, Inc.]

PART 36/ASTM 1979 BOOK OF STANDARDS—Concerned with plastics (materials, film, reinforced and cellular) and high modulus fibers and their composites; 68 standards have been revised or have changed in status and several new standards have been added. [$36.00; 197 standards; 1009 pages; American Society for Testing and Materials]

THE PICK AND THE PEN—By A. J. Wilson; focuses on the people who, in telling the romantic story of mining throughout the world since the Renaissance, have engraved their own names on the history of the mining industry; relates the story of mining literature and of the writers, engineers and editors who observe, report and encourage the free and open exchange of technical information; the story of mining's chroniclers is told against the background of the industry's own development; among the aspects dealt with are the role of the specialized press in the evolution of the modern system of metal marketing and the build-up of international communications networks which enable today's rapid exchange of mining and market news; finally, a critical examination is made of the present-day mining press and its future opportunities. [$26.00, add $6.00 if sent air mail; 308 pages; Mining Journal Books Ltd.]

NOISE POLLUTION: A GUIDE TO INFORMATION SOURCES—Edited by C. R. Bragdon; contains ten chapters that organize key references and information sources into major subject areas, i.e., physiological and behavioral effects, engineering and architectural controls, governmental and administrative controls, community noise, environmental impact, acoustics and legislation; lists over 4000 periodicals, reports, books and other references; offers such previously unpublished material as state and local noise legislation and graduate and continuing education and educational films. [$24.00; 524 pages; Gale Research Company]

FIRE DETECTORS IN UNDERGROUND MINES—By C. D. Litton; designed by the U.S. Bureau of Mines to give mine operators a basic understanding of the equipment available for mine fire detection; assesses "products of combustion" instruments, thermal sensors, air pressure sensors and sensors which detect light or other radiant energy; describes an innovative prototype instrument which measures concentrations of smoke particles generated by explosions and fires at all stages of burning. [Information Circular 8786; single copies may be obtained free of charge from the USBM Publications Distribution Section, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213]

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 54 of 64
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from feasibility study to successful operation...

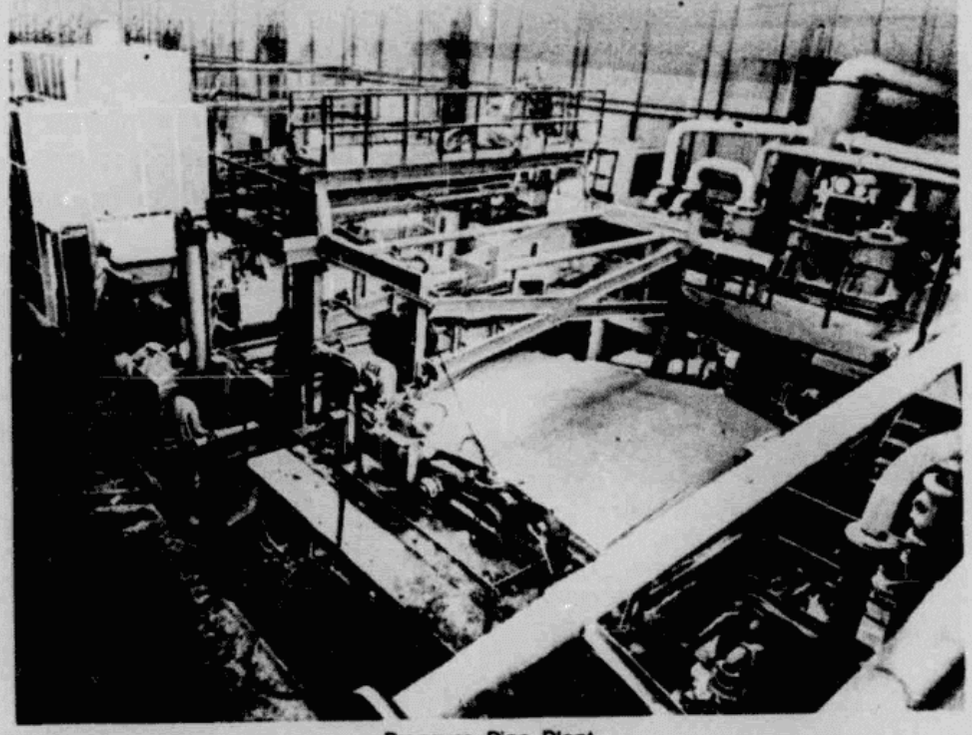
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CALENDAR OF EVENTS

EXPORT DOCUMENTATION—Seminar of Educational Development for International Trade, Inc.; throughout *December* in New Jersey, New York, Pennsylvania and Florida.

TOXICS CONTROL—1979 Conference sponsored by Government Institutes, Inc.; Shoreham Americana, Washington, D.C., *December 10-11.*

DESIGN ENGINEERING/PLANT ENGINEERING AND MAINTENANCE—Shows and Conferences produced by Clapp & Poliak, Inc.; John B. Hynes Veterans Auditorium, Boston, Massachusetts, *December 10-12.*

ENVIRONMENTAL REGULATION—Course of Executive Enterprises, Inc.; Marriott West Loop Hotel, Houston, Texas, *December 10-12.*

ENERGY OPTIMIZATION OF WATER AND WASTEWATER MANAGEMENT FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS—Conference sponsored by the U.S. Department of Energy; hosted by Argonne National Laboratory; Hilton and Towers Hotels, New Orleans, Louisiana, *December 10-13.*

ORE DEPOSITS—Fifth Annual Workshop held by the Department of Geology, University of Toronto; Toronto, Ontario, *December 10-14.*

INDUSTRIAL TOXICOLOGY AND OCCUPATIONAL CONTROL OF HAZARDOUS MATERIALS—Seminar sponsored by Vanderbilt University; Hyatt Regency Hotel, Nashville, Tennessee, *December 10-14.*

CURRENT BLASTING PRACTICE—Seminar presented by Precision Blasting Services; Phoenix, Arizona, *December 11-13.*

WATER POLLUTION CONTROL—Seminar held by Government Institutes, Inc.; Shoreham Americana, Washington, D.C., *December 12.*

SAFETY, HEALTH AND LOSS CONTROL—National conference presented by AMCEE and Georgia Institute of Technology in cooperation with OSHA; Atlanta, Georgia, *December 12-13.*

LEGAL ASPECTS OF DOING BUSINESS WITH CHINA—Seminar presented by Practising Law Institute; New York City—*December 12-14;* San Francisco—*January 14-16, 1980.*

PRODUCT LIABILITY OF MANUFACTURERS/PREVENTION AND DEFENSE—Course held by Practising Law Institute; New York City—*December 13-14;* Los Angeles, California—*January 24-25.*

IDENTIFICATION OF ASBESTOS—Course of McCrone Research Institute Ltd.; Holiday Inn, Swiss Cottage, London, England, *January 7-8.*

INDUSTRIAL AUDIOMETRIC TECHNICIAN TRAINING/CERTIFICATION—Programs of Hearing Conservation Noise Control, Inc.; Philadelphia, Pennsylvania—*January 9-10;* Los Angeles, California—*January 22-24;* Greensboro, South Carolina—*January 30-31.*

BUILDING MATERIALS/SYSTEMS/RENOVATION—Sixth International Trade Exhibition (BAU 80); Fair Grounds, Munich, Germany, *January 16-22.*

MIDDLE EAST CONSTRUCTION—Exposition and conference produced by Cahners Exposition Group; Jeddah, Saudi Arabia, *January 20-26.*

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANISATION——Third general conference; New Delhi, India, *January 21-February 8.*

EUROPEAN BUILDING MATERIALS—Conference of Alena Enterprises of Canada; Sheraton Hotel, Copenhagen, Denmark, *February 7-8.*

FOURTH 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.*

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Remember When?

(OCTOBER 1929 ASBESTOS)

New Advertiser: Lincoln Iron Works, Rutland, Vermont.

This issue contained an article describing the activities of Michael Hackel, who was instrumental in opening several important Amosite asbestos mines in the Pietersburg District of the Union of South Africa. One of them, the Montana Mine, had recently been purchased by Turner & Newall Ltd.

A short item on asbestos-cement pipe and its uses was published. This was of particular interest at the time since Johns-Manville Corporation was about to begin the manufacture and sale in the United States of this product under the name "Transite Pipe."

C. H. Carlough was elected President and General Manager of Southern Asbestos Company following the resignation of W. H. Truesdell. Controlling interest in Southern had been acquired by the Thermoid Company, Trenton, New Jersey, and a move was underway to effect a merger of the two companies.

Announcement was made of the official opening, at St. Johns, Quebec, of the new Canadian plant of Russell Manufacturing Company, designed for the manufacture of asbestos brake linings.

Norristown Magnesia & Asbestos Company reported excellent progress of development work at its Nicolet property in the Danville District of Quebec and early production of asbestos fiber was anticipated.

(NOVEMBER 1929 ASBESTOS)

A brief profile of Captain J. G. Ross appeared in this issue. After a long, successful career as consulting engineer for many mining firms, including some well-known asbestos producers. Captain Ross had recently been named Mines Manager for Asbestos Corporation Ltd.

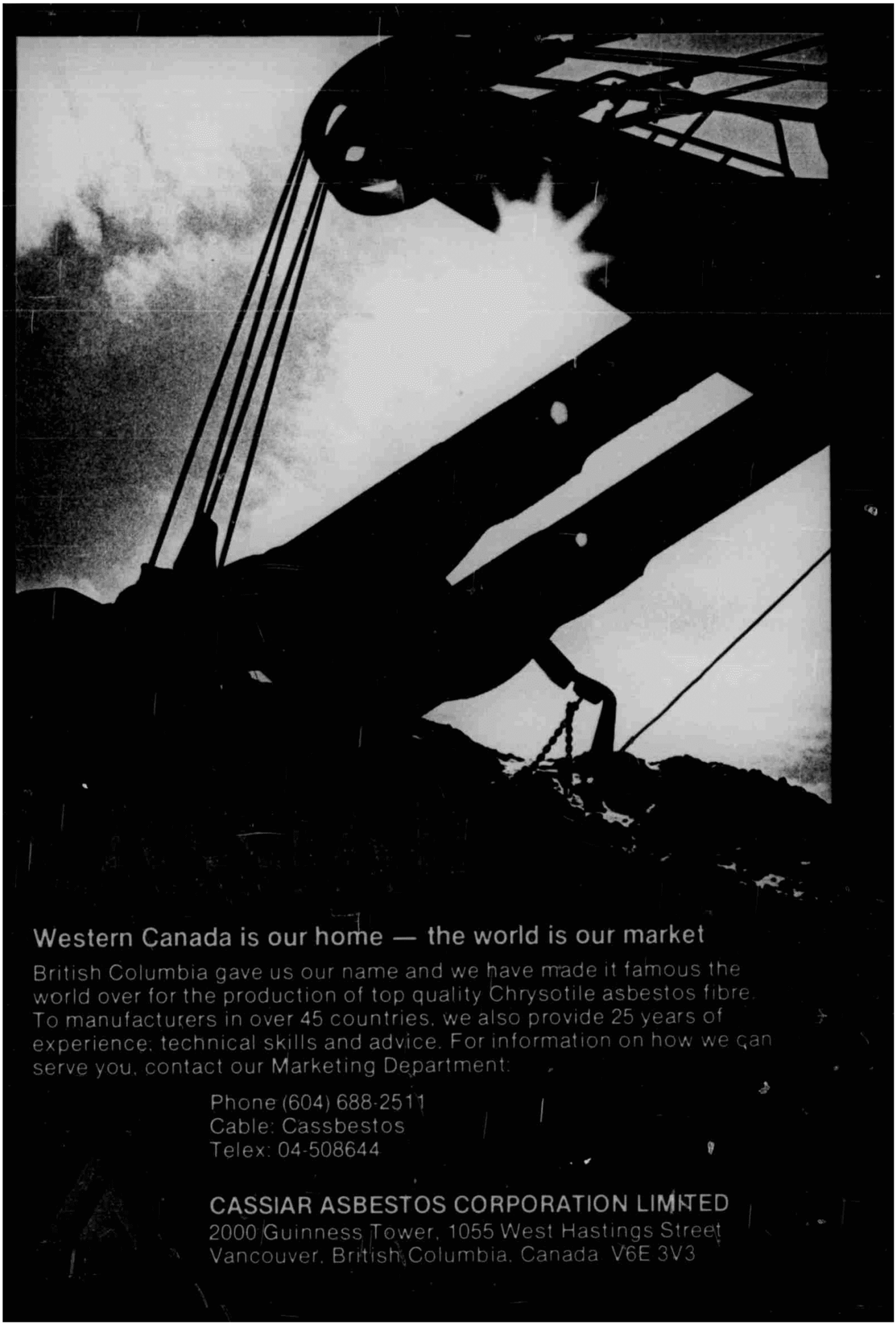
ASBESTOS reported the death of R. Willis Lysle at the age of seventy-four. Mr. Lysle was well known in the insulation industry, particularly in the Philadelphia area.

Midland Asbestos Corporation, Wabash, Indiana, reported acquisition of the properties, assets and good will of Industrial Asbestos Corporation, Mikesell Company, The Superbestos Company and certain other interests, all engaged in the manufacture of asbestos brake linings, packings, gaskets and other specialty products.

Emsco Asbestos Company, Downey, California, was nearing completion of a new mill at its asbestos mines near Globe, Arizona. All fiber from the mill was to be used by Emsco in its brake lining operations.

Bunka-Boeki Sho-Sha, of Tokyo, Japan, announced its intention to start production of asbestos-cement pipe by the Eternit process. This represented the first such manufacturing activity in Japan.

Asbestos Magazine, 1979, November 1979
ACL Doc 12727 · Page 58 of 64
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MANAGING EDITOR *(Name and Address)*
Same as Editor

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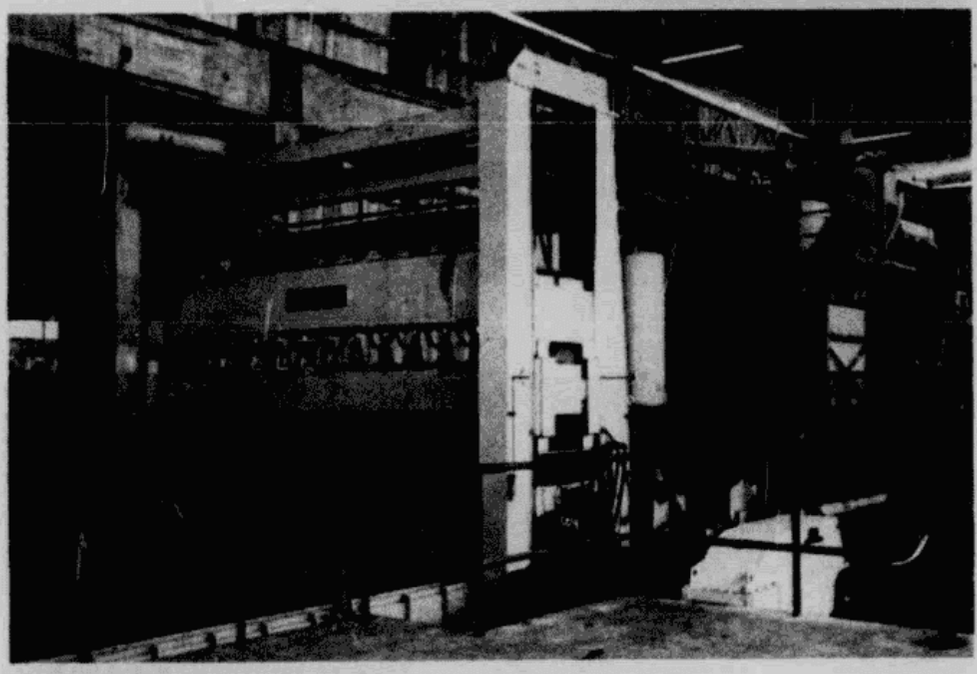
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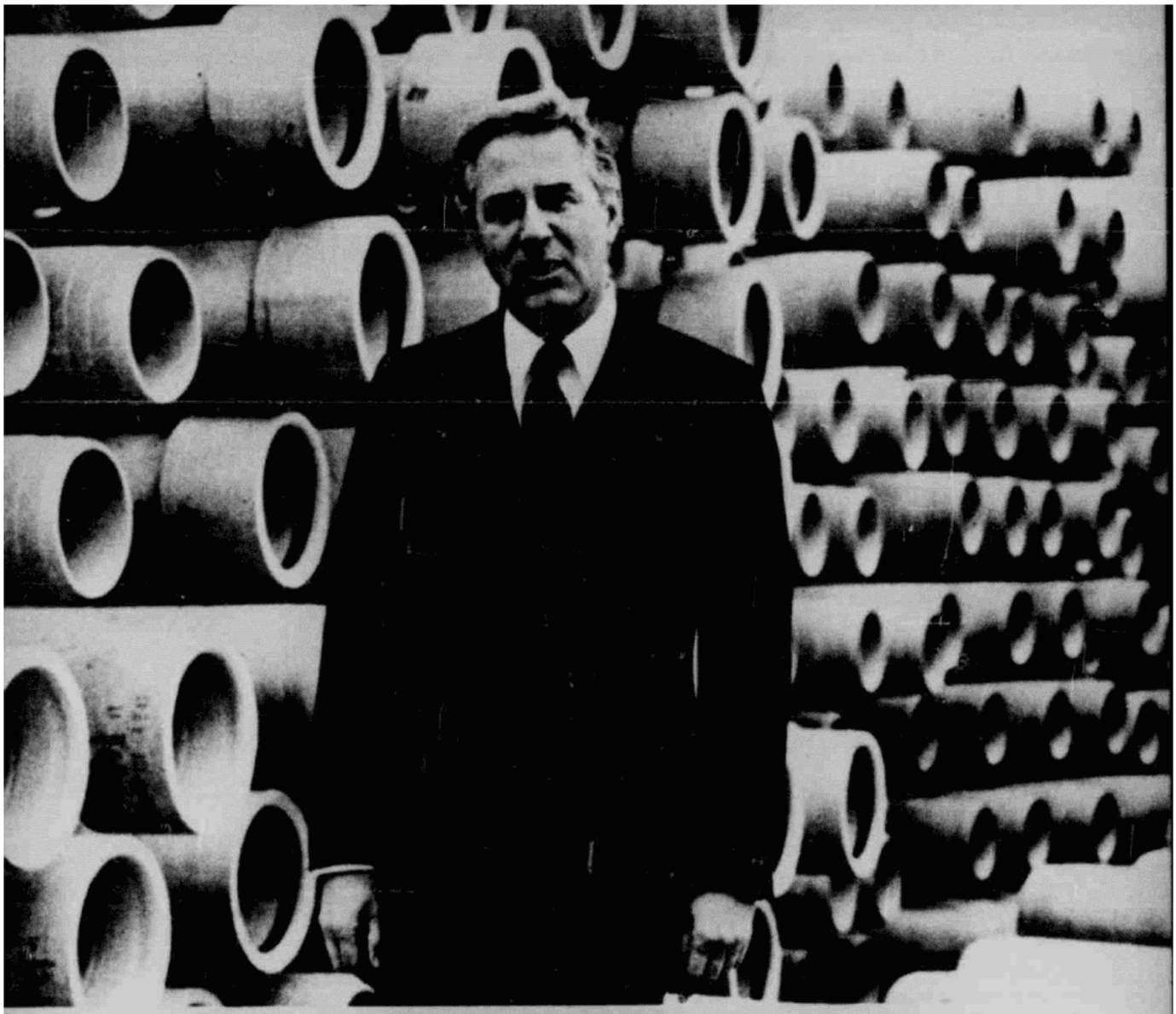
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We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

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.



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

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