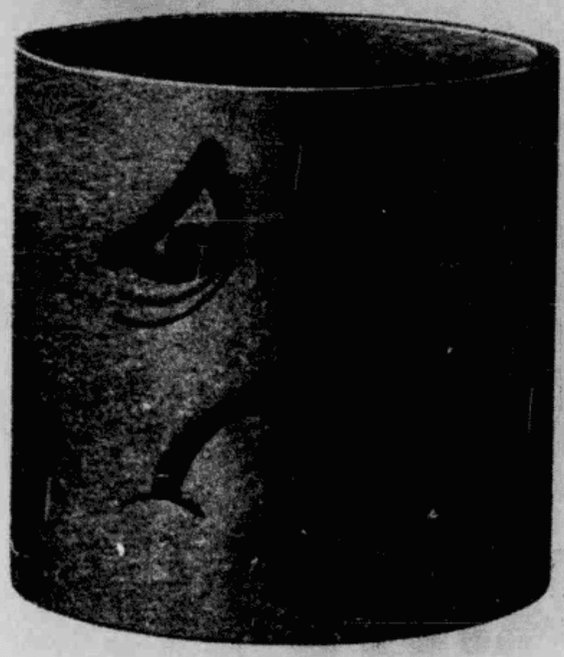
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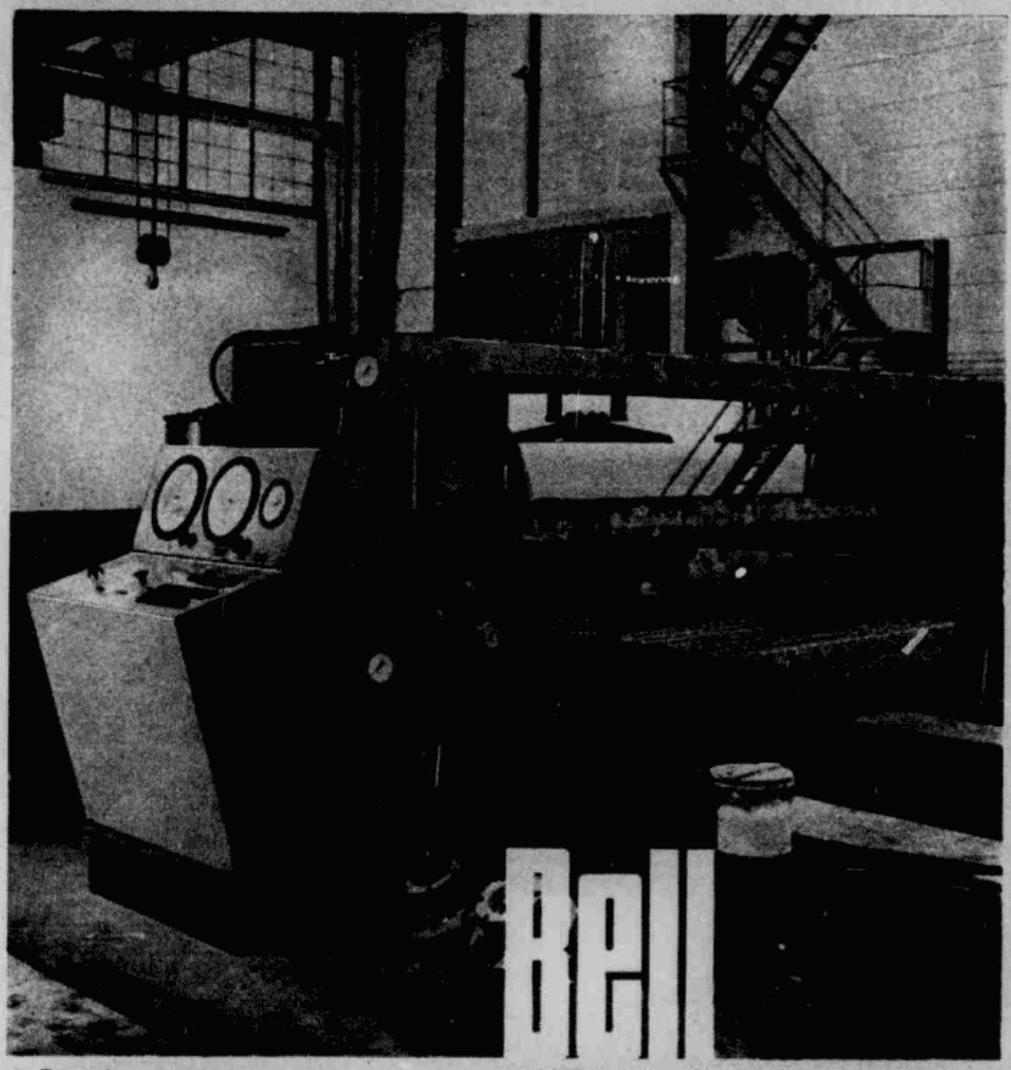
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▲ Press for water pressure test
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Pipe length max. 6000 mm

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Telex 78 167 bell ch
Switzerland

Manufacturer of Asbestos Cement Machines and Asbestos Board Machines

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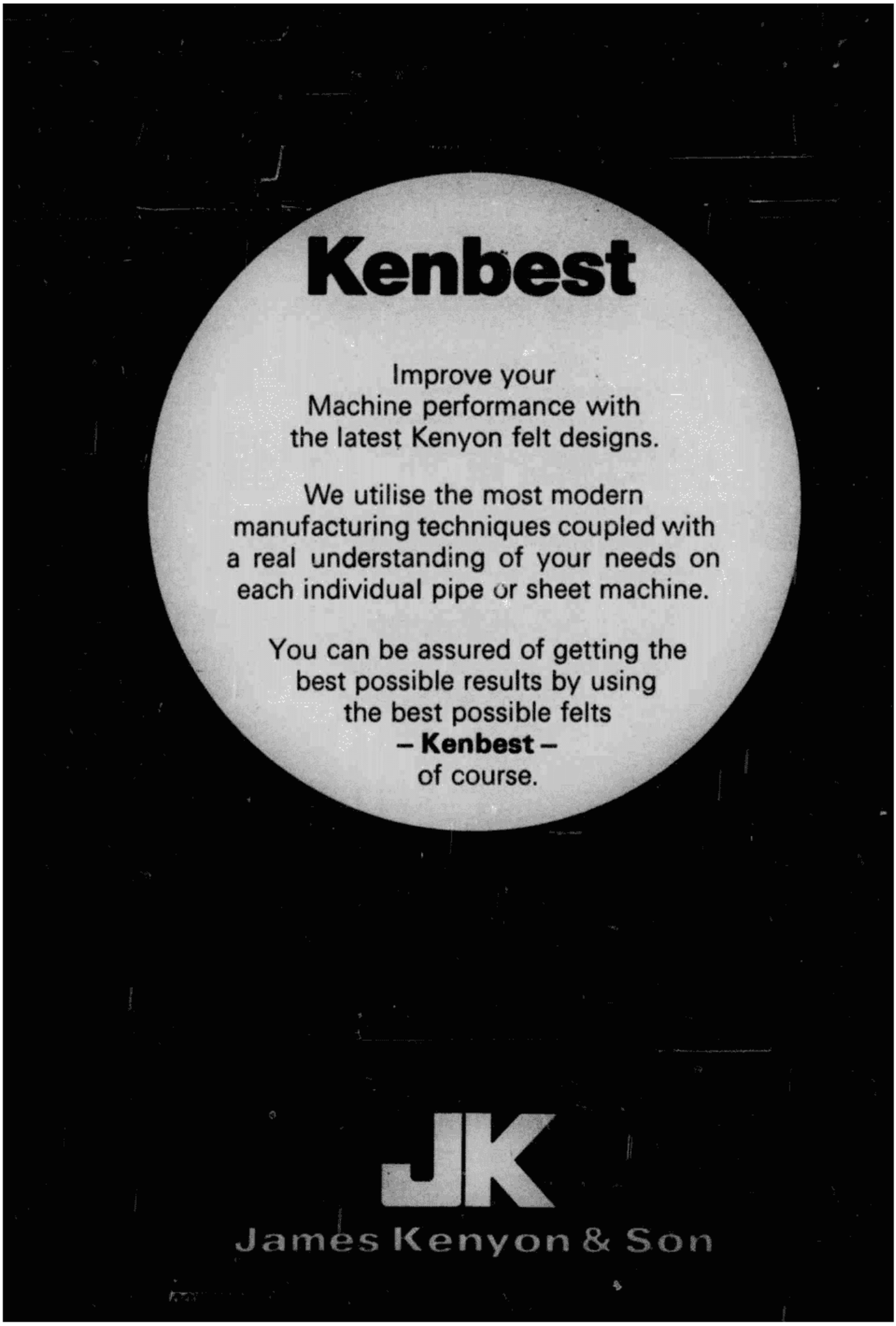
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Presses for high density sheets
Stacking and stripping plants
Corrugators

Pipe machines for high pressure pipes
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ASBESTOS

VOLUME 58 MARCH 1977 NUMBER 9

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ASBESTOS SHIPPER CUTS COSTS With Uni-Tie® Slings

A PATENTED PRODUCT

Since 1970 virtually every type of commodity packaged in bags, bales and boxes has been successfully handled, transported and stored in Marino Uni-Tie slings, reports Mr. Herbert B. Rothman, Merchandising Manager for Marino Systems, Inc., 17 Battery Place, New York, New York 10004. The unitizing apparatus is a patented product of Marino Systems, manufactured at the company's plant in Hialeah, Florida. Marino handles its own marketing program and has manufacturers representatives in major market areas throughout the world.

BOUND FOR THE FAR EAST

Recently, Star Shipping A.S., long an advocate of pre-slinging, unitized a 6.4-million pound shipment of asbestos packaged in 100-pound bags in Marino Uni-Tie slings. On receipt of the slingloads in the Far East, the consignee telexed: *Send Future Shipments in Marino Slings.* According to Mr. Rothman, this telex heralded a dramatic breakthrough in the handling of bagged asbestos in ocean freight shipments from Canada.

THE SLING

The Uni-Tie sling consists of approximately 90 feet of nylon webbing arranged in a one-piece pattern. Available in reusable and disposable models, the disposable sling has a safe working load of 4000 pounds, based on a 5:1 safety factor. The reusable model has a safe working load of 5000 pounds. Opting for the disposable model, drafts of forty 100-pound bags were secured in Uni-Tie slings at Trois Rivieres, Quebec, and loaded aboard Star Shipping's modern open-hatch vessel, the M/S Star Heranger.

THE COVER—The advanced handling gear of Star Shipping permits the simultaneous loading of twelve tons of bagged asbestos aboard the M/S Star Heranger at Trois Rivieres, Quebec. The shipment was unitized via Marino Uni-Tie slings.

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ADVANTAGES

Since Star's advanced loading gear is readily adaptable to handling slingloads, the loading process was expedited by lifting six slingloads at a time. This reduction of individual bag handling resulted in a virtual elimination of bag damage. Star's operations man reported zero damage once the cargo was brought under the hook.

Another benefit of the sling system is a saving in storage space and freight costs. An 80,000-pound payload of asbestos unitized in slings occupies 1600 cubic feet when palletized and loaded in a 40-foot container. Consequently, by delivering maximum payload per cubic foot, preslung cargo effectively reduces freight costs in all transport modes.

Savings in turn-around time and labor effected by the sling system are usually passed on to the shipper in the form of rail, truck and ocean freight allowances. For example, loading and discharging of the M/S Star Heranger proceeded at a rate of 80 to 100 tons per hour. It is anticipated that once operators, stevedores and longshoremen become more familiar with the procedure, productivity will increase to 150 tons per hour.

Reports from the Far East were equally favorable. Handling preslung loads required no special equipment and the loads were easily and effectively moved with forklifts or other existing equipment.

A BRIGHT FUTURE MARKET

Marino believes that because of the substantial freight savings brought about through the use of Marino slings, coupled with the excellent condition in which the cargo arrived, Canadian asbestos suppliers are taking a fresh look at the Marino sling system of unitization.

NEXT ISSUE: ***JOHNS-MANVILLE SOLVES PROBLEM WITH HELP OF VIBRATING STORAGE BIN DISCHARGERS FROM VIBRANETICS, INC.***

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QAMA MANUFACTURING STUDY

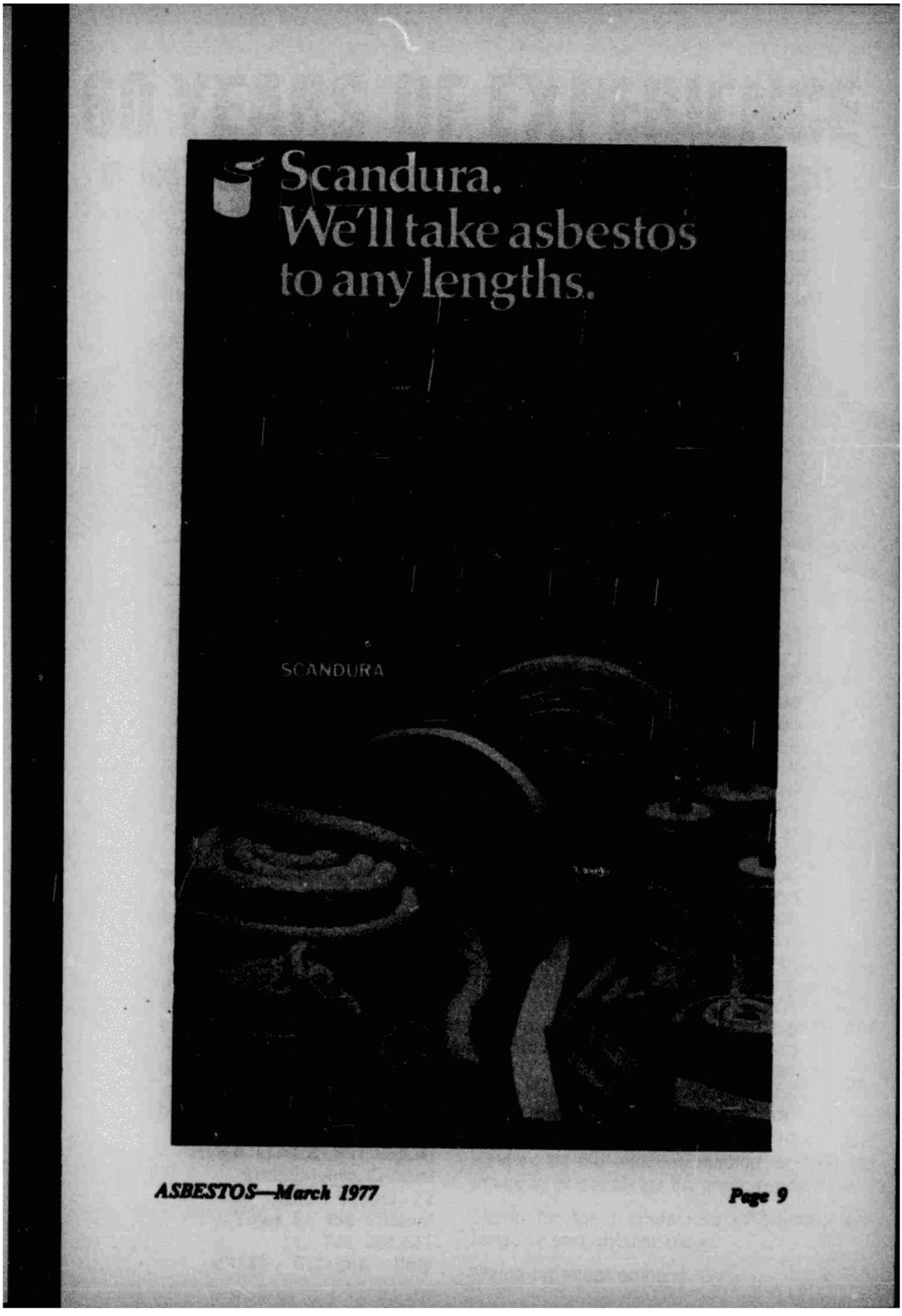
At a press conference held February 15, the *Quebec Asbestos Mining Association* announced it has commissioned *Sorès Inc.* to undertake a comprehensive study covering all possibilities and conditions for an optimum development of a viable asbestos manufacturing industry in the Province of Quebec. The object of the $225,000, QAMA-financed study is to scientifically and objectively determine the parameters for expansion, on a solid and realistic base, of the asbestos manufacturing sector, for the benefit of the Quebec community. A similar move had been made in 1974 when the industry issued a proposal to the Quebec Government to subsidize an independent asbestos manufacturing study of the same magnitude as the one now commissioned. However, the Government did not pursue the offer.

Sorès is an economic and scientific research firm of The *SNC Group* of Montreal. The study will be undertaken in collaboration with *Arthur D. Little, Inc.*, Cambridge, Massachusetts, a firm with wide international experience in market studies and scientific and economic research. Fact-finding missions will be sent across Canada and to Western Europe, Southeast Asia, Japan, the United States and Latin America in an effort to make complete market and feasibility studies on a worldwide scale. An initial preliminary report is to be submitted within 3-4 months and a final report will be issued in October 1977. All phase and preliminary reports and the final conclusions will be made public. . . . Mr. André Anctil, Sorès President, foresees the final recommendations as being very specific. They will outline the technical characteristics of production units and incorporate a schedule for their establishment. Industrial development and marketing strategies will be established and international trade policies will be suggested. Finally, Sorès expects to pinpoint the economic, social and ecological effects of the recommended program.

Quebec produces about 30% of the asbestos fiber produced in the world. It annually produces about 1.4-million short tons, valued at over $300-million, nearly 95% of which is earmarked for export. There are 21 asbestos products manufacturing plants in Quebec and 20% of their production is exported.

Nationalization & The Separatist Movement—On another but much related matter, confusion continues to exist as to the exact intent of Quebec Premier Rene Levesque and the Parti Quebecois toward home control of the Quebec asbestos industry. Early reports indicated the Quebec Government would seek to purchase control of Asbestos Corporation Ltd. from General Dynamics. But speaking to the Canadian Club of Montreal last

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month, Finance Minister Jacques Parizeau stated Quebec may have to take a controlling interest in all five of the Province's major asbestos producers to achieve its goal of 20% local processing. He further said that no final decisions would be made until the Quebec Department of Natural Resources finishes its current study of the industry. However, on March 1 it was reported by Mr. Yves Berube, Minister of Natural Resources, that the Quebec Government will not nationalize the Province's asbestos industry if the mining companies involved cooperate with Government aims to further local processing. . . . Concerning Quebec separating from the nation and becoming its own country, Mr. Pierre Elliott Trudeau, Prime Minister of Canada, issued the following statement in his address before the U.S. Congress on February 22, 1977: "I say to you with all the certainty I can command that Canada's unity will not be fractured. Revisions will take place; accommodations will be made. We shall succeed."

AVC OPTION FOR 23% OF R/M

Mr. William S. Simpson, Chairman and Chief Executive Officer of *Raybestos-Manhattan, Inc.*, and his sister, Mrs. Mary L. Bulkley, have signed an agreement covering the acquisition from them by *AVC Corporation* of 102,269 shares of the outstanding common stock of R/M and the purchase by AVC of an option to acquire 204,539 additional shares. In making the announcement, Mr. Robert M. Gordon, R/M President, stated the company was further informed that another 67,008 shares held by several Simpson family trusts may become subject to the same agreement. Consummation of the initial purchase would result in AVC holding up to 7½% of the outstanding common stock of R/M and exercise of the option would result in AVC holding up to 23%. The initial purchase is expected to be completed by April 1, 1977. The option cannot be exercised sooner than 18 months after the initial purchase nor more than 54 months after the initial purchase. . . . Mr. Simpson has informed R/M he will propose Dr. Frank H. Reichel, Jr., Chairman and Chief Executive Officer of AVC, and Mr. Robert R. Salyard, AVC President, for election to the R/M Board of Directors. He also issued the assurance that the transaction will not change his present position with the company nor will it decrease his dedication and involvement in R/M. Also, Mr. Gordon will continue as President and Chief Operating Officer and R/M management, operations and policies will be carried on in the tradition of sound progressive business practices heretofore maintained.

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60 YEARS OF EXPERIENCE

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Plants for the manufacture of pressure and sewer pipes, variable lengths: 3-4-5-6 m.

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And, on the basis of technology and proceedings of Fibronit S.p.A., Milan:

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GENERAL BUSINESS CONDITIONS

As a result of the extremely severe winter weather in much of the country, economic statistics for January made rather grim reading. However, indications are that February figures will show a surprisingly rapid turnaround and the consensus of opinion is that losses suffered earlier will be largely recouped by the end of the year. For example, some plants which were shut down by the gas shortage are now working overtime, making up for lost production and putting more pay in their workers' pockets. New car sales increased strongly in February and the industry is running at an 11-million car rate, considerably better than had been anticipated earlier.

Congress is adding its own touches to the Carter program for economic stimulus. There will almost certainly be more spending than was originally recommended and a redirection of some of the expenditures. It is unfortunate that Congress, taking its usual short-term view, is leaning toward spending for make-work jobs in the public sector rather than encouraging capital spending which would result in more permanent, productive jobs in the private sector over the longer term. In this connection, we are hearing more and louder forebodings of coming shortages and accompanying inflation some 12 months down the road.

The argument is that plant capacity has not increased nearly fast enough to be capable of satisfying normal growth in demand over the next year or two. At the same time, growth in the labor force will continue, probably at a rate greater than presently estimated. Political action to reduce the unemployment rate, in the form of additional economic stimulus, can result in demands which cannot be met by existing plants regardless of the surplus of available labor. At this point, shortages will make themselves felt and upward pressure on prices will increase substantially. If business should then decide to increase capacity by rapid expansion, we would be facing a repetition of the 1974 fiasco. Considering the time required to build and activate new plants, it may even now be too late to start the expansions of capacity necessary to avoid such a crunch in some industries. This scenario is based, of course, on the assumption that present uptrends in business will continue or accelerate under the stimulus of more Government spending. While there are no guarantees that it will come to pass, one must admit there is a distinct possibility that it will happen as outlined.

Meanwhile, prospects for the balance of this year look rather good compared to the picture a month or so ago.

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OVER A QUARTER CENTURY OF EXPERIENCE

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THRU THE ENVIRONMENTAL MAZE

EPA PROPOSES TO AMEND ASBESTOS STANDARD

The Administrator of the *U.S. Environmental Protection Agency* has proposed to amend the *National Emission Standard for Asbestos*. The proposed amendments would extend coverage of the demolition and renovation provisions of 40 CFR, Part 61.22(d) to all materials which are friable and contain more than 1% asbestos by weight. The current provisions apply only to insulation and fireproofing materials. The proposed amendments similarly would extend the coverage of the asbestos spraying provisions of 40 CFR, Part 61.22(e) by prohibiting all materials sprayed on buildings, structures, structural members, pipes and conduits which contain over 1% asbestos by weight. The prohibition includes spray-on application of paints, decorative sprays and weatherproofing. Interested persons must submit written comments by May 2, 1977. [Federal Register of March 2, 1977; pages 12121-23]

Also in the Federal Register of March 2, on page 12127, EPA issued a final rulemaking action, effective immediately, to clarify that the *demolition and renovation provisions* of 41 CFR, Part 61.21 of the Asbestos Standard apply when friable asbestos materials used for insulation and fireproofing are removed from either a load-supporting or a non-load-supporting structural member. Subparagraph (x) has been added to define a *structural member* as any load-supporting member, such as beams and load-supporting walls; or any non-load-supporting member, such as ceilings and non-load-supporting walls.

OSHA PROPOSES CANCER POLICY

A draft of proposed regulations on *worker exposure to cancer-causing chemicals* that would speed the rulemaking process has been made public by the *U.S. Department of Labor*. The proposed rules are intended to identify, classify and regulate potential carcinogens in U.S. workplaces. Under the proposal the term *carcinogen* must be defined for purposes of regulatory activity. As a policy matter, a toxic material confirmed as a carcinogen in a mammalian test animal species is to be treated as posing a carcinogenic risk to humans. When the *Occupational Safety and Health Administration* is dealing with an identified

ASBESTOS R & D

The Ontario Research Foundation has provided services to the asbestos industry on a fee or contract basis for the past 12 years. These services include:

- testing and evaluation of asbestos fibers at any stage of milling or processing;
- research and development on asbestos products such as asbestos cement, composites, textiles;
- environmental impact studies and industrial hygiene surveys of mines, mills and plants.

ONTARIO RESEARCH FOUNDATION
SHERIDAN PARK, MISSISSAUGA, ONTARIO, CANADA L5K 1B3
(416) 822-4111

ONTARIO RESEARCH

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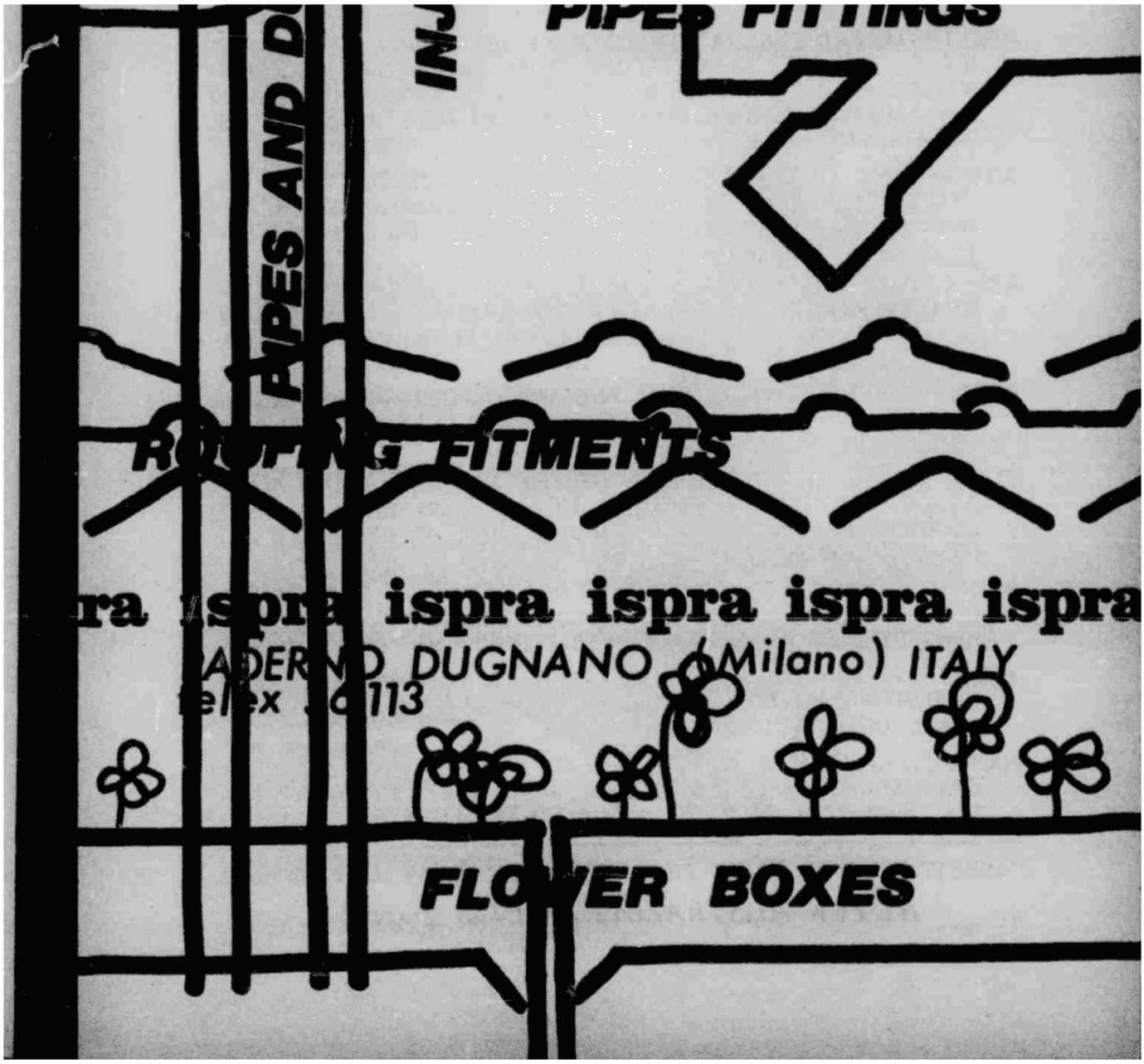
carcinogen, the permissible worker exposure level would be set as low as feasible, or in certain cases would not be permitted at all. This is based on the general policy that there is presently no means to determine a safe exposure level to a known carcinogen. The extent to which such data are conclusive would permit OSHA to classify the substances as a *confirmed* carcinogen (Classification I), a *suspect* carcinogen (Classification II), or *neither* (Classification III). Classification I agents would be regulated by an emergency temporary standard. A Classification II would result in developing a permanent health standard following normal rulemaking procedures. Classification III agents would require further analysis of available data.

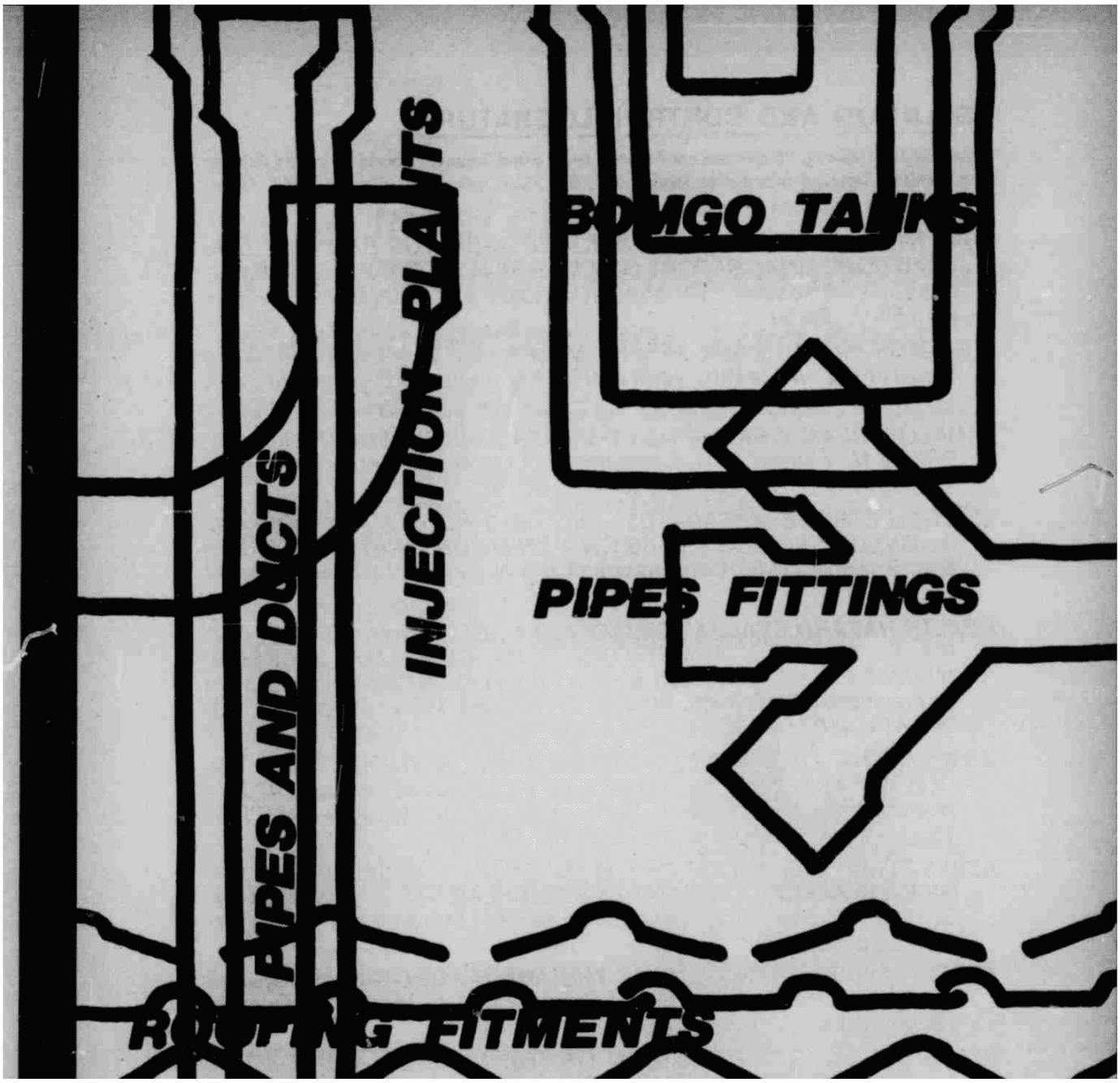
AUSTRALIAN FIRMS FORM ASSOCIATION

Six major Australian asbestos mining and manufacturing firms have formed The *Asbestos Association of Australia* (AAA). The founding member companies are Bendix-Mintex Pty. Ltd., Chrysotile Corporation of Australia Pty. Ltd., Goliath Portland Cement Coy. Ltd., Hardie Ferodo Pty. Ltd., James Hardie & Coy. Pty. Ltd. and Wunderlich Ltd. Richard Klinger Pty. Ltd. and TBA Industrial Products Pty. Ltd. have since joined the organization and a committee has been formed to further expand membership. The new Association was represented at the recent meeting of the International Asbestos Information Conference during which Mr. R. D. Palfreyman (AAA Chairman and a Director of James Hardie) was elected as a member of the Governing Council of that international body.

AAA was organized with the following objectives: (1) to coordinate the endeavors of members to eliminate health risks which may arise from the use of asbestos or of products containing asbestos; (2) to provide prompt and adequate information services between members on matters concerning occupational and environmental hazards believed to be associated with asbestos; (3) to facilitate the collaboration and exchange of information in medical, scientific and technical research and the development and promotion of effective methods to control asbestos dust; (4) to develop and maintain cooperation and liaison with Government and labor in relation to occupational and environmental health associated with asbestos; and (5) to continually examine the use of asbestos in Australia and to assist members and non-members in matters relating to occupational health and to asbestos dust measurement and control techniques.

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Orders for the following "Environmental Pollution and Control Reports" should be placed directly with: National Technical Information Service, P.O. Box 1553, Springfield, Virginia 22151. Prices given below are subject to change.

QUANTITATIVE ANALYSIS OF AIRBORNE ASBESTOS BY X-RAY DIFFRACTION: FINAL REPORT ON FEASIBILITY STUDY—L. S. Birks, et al., Naval Research Laboratory; January 1975, 20 pages, PB-241-285/6WP; $3.50.

ASBESTOS FIBER ATLAS—P. K. Mueller, et al., California State Department of Health; April 1975, 58 pages, PB-244-766/2WP; $4.50.

PARALLEL-BEAM X-RAY OPTICS FOR MEASURING ASBESTOS—L. S. Birks & M. Fatemi, U.S. Department of the Navy; September 1975, 13 pages, PAT-APPL-610-730/WP; $3.50.

MULTIELECTRODE APPARATUS AND TECHNIQUES TO PREPARE ALIGNED ASBESTOS FIBERS ON A THIN SUBSTRATE—M. Fatemi & L. S. Birks, U.S. Department of the Navy; September 1975, 14 pages, PAT-APPL-610-728/WP; $3.50.

HEALTH HAZARD EVALUATION/TOXICITY DETERMINATION REPORT H.H.E. 74-94-253, ARMSTRONG CORK COMPANY, JACKSON, MISSISSIPPI—J. P. Flesch & R. A. Rostand, National Institute for Occupational Safety and Health; December 1975, 16 pages, PB-249-433/4WP; $3.50.

ASSESSMENT OF PARTICLE CONTROL TECHNOLOGY FOR ENCLOSED ASBESTOS SOURCES—C. F. Harwood, et al., IIT Research Institute; October 1974, 136 pages; PB-239-926/PDD; $5.75. *PHASE II*—PB-251-623/5WP; $6.00.

ASBESTOS/A CASE STUDY OF THE U.S. NAVY'S RESPONSE TO UPGRADED SAFETY AND HEALTH REQUIREMENTS—A. Winer & W. D. Holtgran, Naval Ship Engineering Center; March 1976. 24 pages, AD-AO22-306/5WP; $3.50.

ASBESTOS CONTAMINATION OF THE AIR IN PUBLIC BUILDINGS—W. J. Nicholson, et al., Mount Sinai School of Medicine; October 1975, 70 pages, PB-250-980/OWP; $4.50.

EXPERIMENTAL DETERMINATION OF THE NUMBER AND SIZE OF ASBESTOS FIBERS IN AMBIENT AIR—W. John, et al., California State Department of Health; January 1976, 45 pages, PB-254-086/2WP; $4.00.

BENEFITS AND COSTS OF THE FEDERAL ASBESTOS STANDARD—R. F. Settle, Department of Economics, Delaware University; February 1975, 57 pages, PB-256-238/7WP; $4.50.

ASBESTOS MONITORING STUDIES, PHASES I AND II, FINAL REPORT—T. M. Distler, California University; February 1976, 39 pages, UCRL-52011; $4.00.

HAZARDOUS WASTES: A RISK-BENEFIT FRAMEWORK APPLIED TO CADIUM AND ASBESTOS—K. Moll, et al., Stanford Research Institute; September 1975, 266 pages, PB-257-951/4WP; $9.00.

"ASBESTOS" WELCOMES THE FOLLOWING NEW ADVERTISER:

HUYCK AUSTRALIA PTY. LTD., page 51

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To meet clean air standards you not only need a centralized dust collector, you also need a decentralized dust collector.

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

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

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

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The decentralized dust collector.

PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: — **NOVEMBER 1976**

Amosite	s.tons	..	$ ..
Crocidolite (Blue), South Africa	s.tons	404	231,777
Chrysotile Crudes, Canada	s.tons	168	60,575
South Africa	s.tons	135	77,562
Chrysotile Spinning Fibers, Canada	s.tons	951	861,846
South Africa	s.tons	61	37,510
Chrysotile, Other, Canada	s.tons	52,286	10,369,784
Mexico	s.tons	4	959
South Africa	s.tons	27	22,580
Other Crudes & Fibers, Canada	s.tons	1,669	269,652
South Africa	s.tons	1,462	697,428
		57,167	$ 12,629,673

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	821,558	$ 1,077,154
A-C pipes, tubes & fittings	Lb	871,318	88,984
Other asbestos-cement articles	Lb	1,299,552	169,304
Other asbestos articles		..	565,775
			$ 1,901,217

UNMANUFACTURED ASBESTOS: — **JANUARY-NOVEMBER 1976**

Amosite, Canada	s.tons	20	$ 469
South Africa	s.tons	1,344	599,288
Crocidolite (Blue), Australia	s.tons	99	46,498
South Africa	s.tons	7,954	3,982,288
Chrysotile Crudes, Canada	s.tons	553	235,974
Mexico	s.tons	378	208,862
Rhodesia	s.tons	2,056	1,792,852
South Africa	s.tons	1,132	663,259
United Kingdom	s.tons	564	282,238
Chrysotile Spinning Fibers, Canada	s.tons	5,558	4,302,352
Rhodesia	s.tons	247	207,888
South Africa	s.tons	61	37,510
Chrysotile, Other, Canada	s.tons	545,497	109,294,152
Germany, West	s.tons	1,086	202,826
Mexico	s.tons	35	8,334
South Africa	s.tons	423	240,020
Other Crudes & Fibers, Canada	s.tons	17,307	2,876,311
Germany, West	s.tons	823	179,840
Hong Kong	s.tons	2	345
Mexico	s.tons	52	21,624
South Africa	s.tons	5,838	2,227,064
USSR	s.tons	10,007	1,903,926
		601,036	$129,313,920

U.S. IMPORTS—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	6,837,430	$ 9,424,591
A-C pipes, tubes & fittings	Lb	9,962,552	990,745
Other asbestos-cement articles	Lb	18,063,465	2,847,383
Other asbestos articles			5,541,835
			$ 18,804,554

AUSTRALIAN IMPORTS & EXPORTS

For the *Six Months Ended December 1976*, Australia *imported* 31,059 metric tons of asbestos valued at A$11,677,374—4974 tons and $3.6-million over the like period a year earlier. The breakdown by variety of asbestos for the latest period is: Chrysotile, 15,535 tons (up 4066 tons), $5.7-million; Amosite, 7318 tons (down 2928 tons), $3.1-million; Other, 8206 tons (up 3836 tons), $2.9-million. Total asbestos imports from July to December 1974 were 26,452 tons valued at $4.8-million. . . . *Exports* of all types of asbestos for the *Six Months Ended December 1976* totaled 16,377 tons valued at $5,909,243, an increase of 2177 tons and $383,573 over the like 1975 period and ahead 7181 tons and $4.4-million of the comparable six months in 1974. [Australian Bureau of Statistics]

SOUTH AFRICAN OUTPUT & EXPORTS

Production of asbestos for the period *January-September 1976* totaled 273,236 metric tons, 6629 tons more than in the like 1975 months. The breakdown for the latest nine months is: 130,166 tons of Cape Blue (up 5556 tons); 82,311 tons of Chrysotile (up 8634 tons); 59,838 tons of Amosite (down 7780 tons); and 921 tons of Anthophyllite (up 219 tons). . . . *Exports* for the *Nine Months To September 1976* were valued at R78,126,597, ahead R17.7-million over the like period a year earlier. By variety of asbestos, the values for the latest nine months are: R50,648,095 for Cape Blue, R16,597,075 for Amosite, R10,792,813 for Chrysotile and R88,614 for Anthophyllite. [South African Department of Mines]

TAIWAN ASBESTOS STATISTICS

During the *First Nine Months of 1976*, Taiwan *produced* 1738 metric tons of asbestos. If the production rate continues through 1976, the total for the year will be ahead of the previous twelve months by about 500 tons. . . . In the *First Half of 1976*, Taiwan exported 0.4 metric tons of asbestos and imported 7483 tons, mostly long fiber grades. Domestically-produced asbestos is used mostly in the manufacture of plastic products, fillers and heat-insulating compounds. [Taiwan Ministry of Economic Affairs]

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CANADIAN FIBER SHIPMENTS

According to Statistics Canada, shipments of asbestos by primary Canadian producers (including tonnage for own use) amounted to 149,881 short tons in *November 1976* and 153,467 tons in *December 1976*. Shipments for the *Year 1976* totaled 1.7-million tons valued at an estimated $445,523,000, compared with 1.2-million tons valued at $267-million in 1975 and 1.8-million tons valued at $302-million in 1974. A breakdown by grade and origin for the past three years is as follows:

PRIMARY CANADIAN ASBESTOS PRODUCERS' SHIPMENTS

	Year 1976	Year 1975	Year 1974
Quebec Plants—			
Crudes 1 & 2 and Group 3—Spinning	21,910	10,039	32,432
Group 4—Shingle Fiber	321,471	208,929	351,804
Group 5—Paper Fiber	146,529	74,133	202,320
Group 6—Stucco Fiber	250,142	162,464	274,387
Group 7—Refuse	633,864	428,342	675,313
Group 8—Sand	25	116	315
Total Quebec	1,373,941	884,023	1,536,571
Plants in Newfoundland, Ontario, British Columbia and the Yukon	319,801	279,651	274,093
Total Short Tons	1,693,742	1,163,674	1,810,644
Total Metric Tons	1,536,537	1,055,667	1,642,589

CANADIAN PRODUCT IMPORTS

Imports of various asbestos-containing products for the *Nine Months To September 1976* were valued as follows: vinyl-asbestos floor and wall tiles—$88,000 (96,755 square yards); asbestos cloth, dryer felts and sheets—$2,081,000; asbestos packing—$1,186,000 (957,952 pounds); asbestos brake linings—$3,432,000; asbestos clutch facings—$570,000; asbestos-cement shingles and siding—$117,000; asbestos-cement boards and sheets—$259,000; other asbestos building materials—$4,923,000; and other asbestos basic products—$2,265,000. [Statistics Canada]

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers in the *Year 1976* totaled 48,133 metric tons (10,528,106 square meters) compared with 43,111 tons (9,493,444 square meters) in 1975. *Shipments* reached 44,636 tons (9,695,979 square meters) in 1976

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against 46,032 tons (10,036,786 square meters) the prior year. Reporting firms included American Biltrite Rubber Co. (Canada) Ltd., Armstrong Cork Canada Ltd., Domco Industries Ltd. and The Flintkote Co. of Canada Ltd. [Statistics Canada]

FELT SHIPMENTS FROM CANADA

Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *Year 1976* totaled 4,625,062 square feet (429,682 square meters) valued at $12,501,392. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet forming operations) reached 634,271 pounds (287,700 kilograms) valued at $8,720,572. Shipments of paper machine forming fabric amounted to 2,109,514 square feet (195,980 square meters) valued at $14,151,335. Reporting firms were Kenwood Mills in Nova Scotia; Capital Wire, Drytex Ltd., Kenwood Mills and Porritts & Spencer (Canada) Ltd. in Ontario; and, in Quebec, Albany Felt of Canada Ltd., Asten-Hill Ltd., Ayers Ltd., Scapa Dryers (Canada) Ltd., Lockport Felts Ltd., Johnson Wires, Niagara Quebec Wires and SNA International. [Statistics Canada]

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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		NOVEMBER 1976	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,509	$ 505,927
Waste and refuse	s.tons	2,061	429,263
		3,570	$ 935,190
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	1,083,390	$ 162,508
Other a-c fiber-cement articles	Lb	2,894,040	604,633
Gaskets	Lb	71,970	166,087
Packing	Lb	346,251	979,275
Heat or sound insulation		..	530,799
Textiles & yarns	Lb	1,185,898	685,140
Protective clothing		..	58,479
Mfrs. other than friction materials		..	1,357,221
Clutch facings & linings for auto. use	No	70,597	119,770
Other clutch facings & linings	No	40,512	45,058
Brake linings for automotive use	Lb	1,042,071	801,620
Other brake linings	Lb	171,022	272,536
			$ 5,783,126

UNMANUFACTURED ASBESTOS:		JANUARY-NOVEMBER 1976	
Fibers not further processed than beaten, washed or graded to length	s.tons	20,522	$ 6,742,905
Waste and refuse	s.tons	22,899	5,118,552
		43,421	$11,861,457
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	20,918,400	$ 3,501,226
Other a-c fiber-cement articles	Lb	24,015,375	4,774,583
Gaskets	Lb	621,960	1,571,967
Packing	Lb	3,859,456	8,598,424
Heat or sound insulation		..	4,436,142
Textiles & yarns	Lb	14,012,705	7,003,595
Protective clothing		..	810,476
Mfrs. other than friction materials		..	11,314,142
Clutch facings & linings for auto. use	No	656,289	1,223,097
Other clutch facings & linings	No	296,811	334,326
Brake linings for automotive use	Lb	9,364,703	7,845,087
Other brake linings	Lb	2,243,868	2,714,966
			$54,128,031

CORRECTION: The total value of manufactured asbestos products for the period January-October 1976 was $48,344,905. The figure was erroneously reported as $43,178,673 in February 1977 ASBESTOS on page 28.

EXPORTS FROM CANADA

From: Statistics Canada

NOVEMBER 1976
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,274	77,722	20,731
Eastern Europe	..	19	1,460	200
Middle East	..	..	635	570
Africa	..	..	962	500
Asia	..	218	12,292	13,797
Oceania	..	1	3,571	320
So. & Cen. America & Antilles	..	42	6,520	3,205
United States	21	925	9,348	38,113
	21	2,479	112,510	77,436

The total amount of unmanufactured asbestos exported in *November 1976* was 192,446 short tons, valued at $59,544,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 175,000
Asbestos brake linings & facings	142,000
Asbestos-Cement building materials	697,000
Other basic asbestos products	245,000
	$ 1,259,000

JANUARY-NOVEMBER 1976

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	64	11,122	298,741	156,517
Eastern Europe	..	714	12,444	2,857
Middle East	..	215	14,898	7,193
Africa	..	..	11,563	5,587
Asia	3	2,005	90,858	128,768
Oceania	..	7	47,878	6,124
So. & Cen. America & Antilles	..	1,794	76,112	31,990
United States	46	7,082	126,855	430,443
	113	22,939	679,349	769,479

The total amount of unmanufactured asbestos exported in *January-November 1976* was 1,471,880 short tons, valued at $427,146,000.

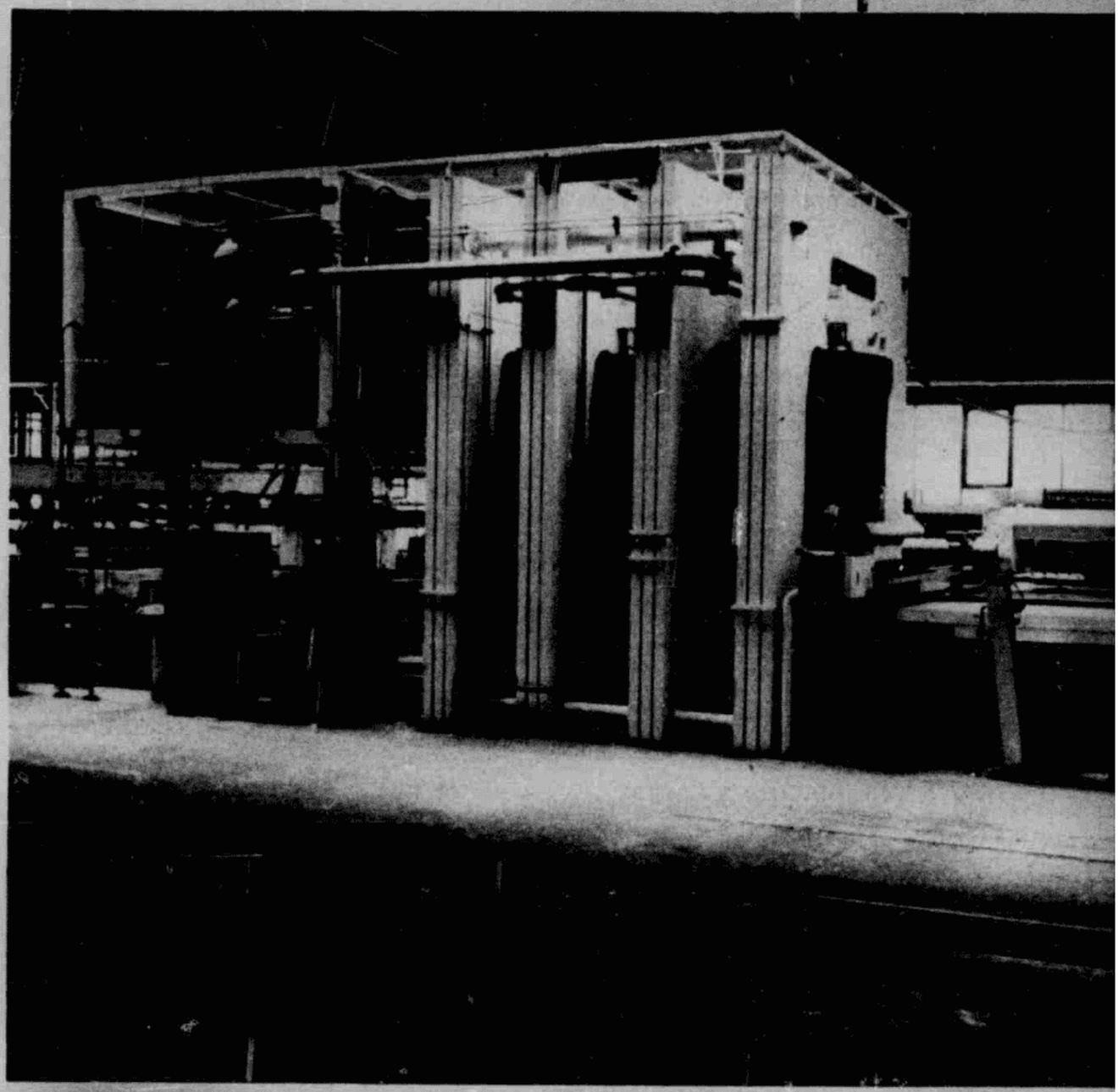
MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 2,343,000
Asbestos brake linings & facings	1,440,000
Asbestos-Cement building materials	7,472,000
Other basic asbestos products	2,383,000
	$13,638,000

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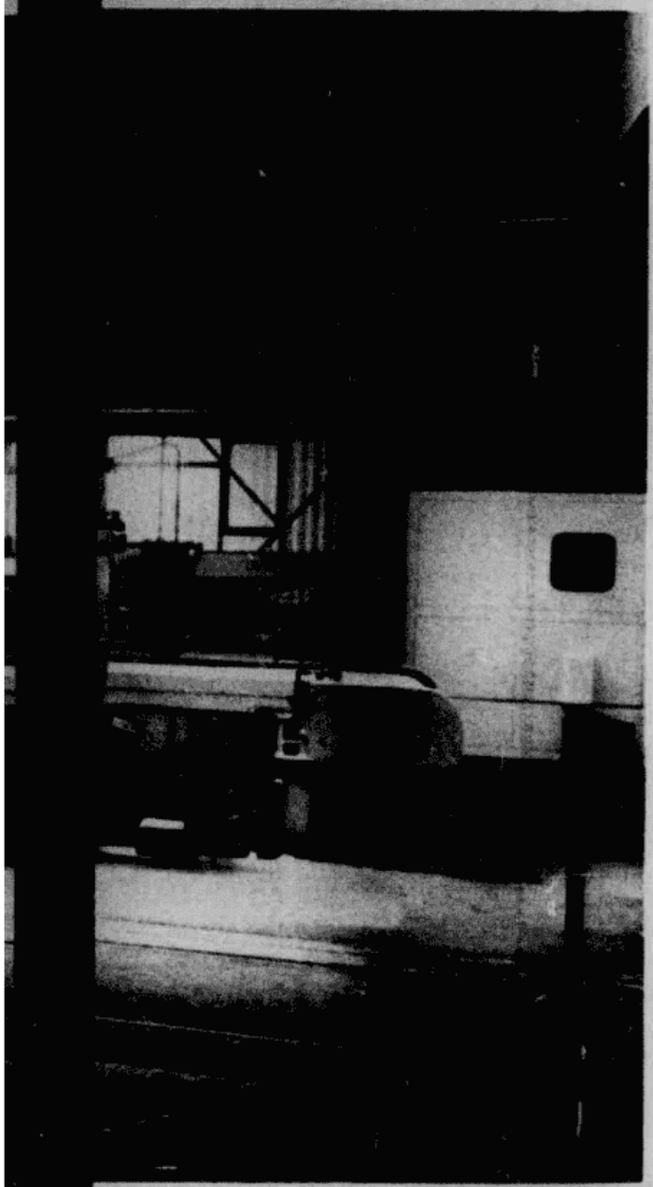
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flat and corrugated asbestos-cement sheets

asbestos-cement pipes

c press lines tion of:



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Fully automatic press lines for the production of building elements

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cycle time: 12 seconds

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CURRENT ASBESTOS PRICES

ARIZONA *Per Ton of 2000 Lbs., F.O.B. Globe, Arizona*
As of July 1, 1976 *U.S. Dollars*

No. 1 Crude (Soft)	$ $3000.00
No. 2 Crude (Soft)	1800.00
AAA	1300.00
Group No. 3—Nonferrous Filtering—Plastic	750.00— 840.00
Group No. 4—Nonferrous Filtering—Plastic	750.00— 840.00
Group No. 7—White Shorts	100.00— 200.00

QUEBEC *Per Ton of 2000 Lbs., F.O.B. Mine*
As of January 1, 1977 *Canadian Dollars*

No. 1—Crude	$3300.00—$4000.00
No. 2—Crude	1800.00— 2175.00
No. 3—Spinning Fiber	850.00— 1700.00
No. 4—Asbestos Cement Fiber	465.00— 950.00
No. 5—Paper Fiber	315.00— 435.00
No. 6—Paper and Shingle Fiber	230.00— 275.00
No. 7—Shorts	85.00— 200.00

CASSIAR *Per ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of December 1, 1976 *Canadian Dollars*

Cassiar Mine	
C-1 —No. 1 Crude	$3621.00
AAA —Nonferrous Spinning Fiber/Canadian Group 3	2093.00
AA —Nonferrous Spinning Fiber/Canadian Group 3	1664.00
A —Nonferrous Spinning Fiber/Canadian Group 3	1267.00
AC —Nonferrous Spinning Fiber/Canadian Group 3	913.00
AK —Asbestos Cement Fiber/Canadian Group 4	651.00
AS —Asbestos Cement Fiber/Canadian Group 4	563.00
AX —Asbestos Cement Fiber/Canadian Group 5	516.00
AY —Asbestos Cement Fiber/Canadian Group 5	362.00
AZ —Asbestos Cement Fiber/Canadian Group 6	268.00
Clinton Mine	
CP —Asbestos Cement Fiber/Canadian Group 4	611.00
CT —Asbestos Cement Fiber/Canadian Group 4	553.00
CY —Asbestos Cement Fiber/Canadian Group 5	362.00
CZ —Asbestos Cement Fiber/Canadian Group 6	268.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of January 1, 1977 *U.S. Dollars*

Grade 4T—Fiber	$ —$ 477.00
Grades 5D thru 5R—Fiber	314.00— 369.00
Grade 6D—Waste	— 228.00
Grades 7D thru 7T—Shorts	95.00— 182.00
Grade 7TF—Floats (Shorts)	— 82.00
Grade 8S—Shorts	— 62.00
Hooker No. 1—in 50-lb. woven polypropylene bags	1110.00
Hooker No. 2—in 100-lb. woven polypropylene bags	555.00

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And only one material can protect the man who gets him out. At every race track there is a fireman wearing special protective clothing at all times.

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

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ASBESTOS

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THE MINING SCENE

PATHFINDER CONTINUES STUDY

Pathfinder Resources Ltd., as a result of recommendations issued by *Watts, Griffis and McOuat Ltd.*, is planning several moves toward reaching a production decision concerning its Lili asbestos property, a 750-acre site in Cleveland Township, Richmond County, Quebec, about 5 miles southwest of the town of Asbestos. The property is part of the Asbestos ophiolitic complex of Southern Quebec and represents the southwestern extension of the Thetford Mines complex. The Chrysotile deposits consist predominantly of slip fiber with some cross fiber in serpentinized peridotite.

Using 1976 fiber prices and a rock value cut-off of $4.00 per ton, WGM has calculated indicated reserves of 31.9-million tons with a fiber yield of 4.37%, a rock value of $7.10 per ton and a fiber value of $162.47 per ton. Only limited additional drilling would be required to promote all of these reserves into the proven or measured category.

Preliminary bulk sampling has indicated the deposit contains more fiber, and of a longer grade, than previously indicated. Experience within the Asbestos Industry has been that in Chrysotile deposits the percentage fiber yield from processing drill core may be improved by up to 40% or more; consequently additional investigations have been recommended. WGM states that an improvement in grade of 20% or more would have a major bearing on the viability of the deposit and that an overall improvement in fiber length would have a significant and positive effect with regard to marketability of the products.

Work completed to date shows the fiber to consist of a small percentage of Groups 4 and 5 and a large proportion of Groups 6 and 7, particularly the shorter Group 7 grades. Further work to establish conclusively the quality and value of the various fiber grades is recommended.

Because indicated reserves are sufficient to support a plant with a production capacity of at least 100,000 tons per year and the location of the deposit is very favorable with regard to transportation, skilled asbestos workers and professional expertise, WGM recommends that a preliminary feasibility study be undertaken following completion of various confirmatory investigations.

Order-of-magnitude estimates completed by WGM indicate the capital cost of a plant with a capacity to annually produce 100,000 tons of fiber would be $40-million to $45-million. At a fiber recovery of 4% it would be necessary to process 2.5-million tons of ore per year to produce 100,000 tons of fiber. Assuming a waste-to-ore ratio of 3:1, a pre-concentration by screening out and rejecting approximately 50% of the pit-run material after secondary or tertiary crushing, WGM estimates operating costs of $4.50 per ton of ore or $112.50 per ton of fiber. If an improvement in grade by a factor of 30% is confirmed as being average for the deposit, then the recoverable fiber value per ton of rock would rise from $7.10 to $9.23. At a mining rate of 2.5-million tons per year,

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ASBESTOS

Lake Asbestos is the third largest producer of asbestos in Canada, with sales representatives on every continent of the world. Lake's two mines produce a full range of grades, from the long 3 group for spinning and weaving, to the short 7's for paper, brake lining and floor tile. Western hemisphere representatives below can provide prompt service and local warehousing as required.

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Chicago

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Northern New Jersey
D.H. Litter Company, Inc.
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N. Carolina, S. Carolina, Georgia
Tennessee, Alabama, Mississippi
Deeks & Co., Inc.
Stone Mountain, Ga., High Point, N.C.

Ohio
Lawlor Distributors, Inc., Cleveland

Pennsylvania, Delaware, Maryland
Virginia, Southern New Jersey
Van Horn, Metz & Company, Inc.
Conshohocken, Pa., Baltimore, Md.

Washington, Oregon
J.F. Shelton Co., Portland

Argentina
Tradimex S.A.I.Y.C., Buenos Aires

Brazil: Tennant Imp. E Exp. Ltda.
Sao Paulo, Rio de Janeiro

Bolivia: Tennants S.A., La Paz

Canada (Ontario, Quebec)
Federated Genco Ltd.
Montreal and Toronto

Colombia
Holanda Colombia, S.A., Bogota

Dominican Republic
A. Amanzio, Mexico City

Mexico
Industrial Minera Mexico, S.A.
Mexico City

Peru: Tennant (Peru) S.A., Lima

Puerto Rico
Juan Vater & Co., Inc., Santurce

Venezuela
Connell Brothers Co., Ltd., Caracas

General agent for Argentina, Brazil, Bolivia, Peru and Venezuela is Amalgamet Canada Ltd., Toronto. We're also represented in Europe, Asia and Africa by Asarco International. For more information contact: Lake Asbestos of Quebec, Limited, P.O. Box 608, Black Lake, Quebec, (418) 423-4226, Cable: LAQBESTOS BLACK LAKE. Telex: 018-3210.

LAKE ASBESTOS

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operating revenue would be about $23-million. On this basis, an annual surplus of revenue over costs of $11.8-million is indicated and the capital investment of $45-million, if borrowed at 12% interest, could be redeemed in about five years.

Mr. T. Tedd Sahaidak, President of Pathfinder, reports that further drilling as well as blasting to obtain rock and fiber samples for study will be undertaken in the near future.

UNITED ASBESTOS PLACED IN DEFAULT

It has been reported that *United Asbestos Inc.* was placed in default by bondholders and by its bank, the Mercantile Bank of Canada, and has closed its asbestos mine at Midlothian, Ontario, while endeavoring to make financial arrangements which will enable it to resume operations. The Mercantile Bank is a major bondholder in United Asbestos along with Kanematsu-Gosho (Canada) Ltd., United's distributor in Japan.

Although the size of the debt has not been disclosed, The Wall Street Journal reports that about $3-million of United's outstanding debt to the bank is repayable by the end of this month. Total principal due within one year on long-term debt as of the end of 1976 was $7.5-million compared with $2.3-million a year earlier. Accounts and notes payable were $6.2-million, against nil, and bank loan and overdraft were $4.6-million against $1-million a year earlier. United had a working capital deficiency at December 31, 1976, of $14.5-million compared with $1.6-million at the end of 1975. The $35-million long-term private placement with financial institutions in the United States, sought by the company late last year, proved unsuccessful.

As had been reported in this Magazine in December, United Asbestos has been plagued with problems since it began trial production in August 1975 but it had hoped to be operating at full capacity by the end of this fiscal year, March 31, 1977.

GEORGE C. COOK ASSOCIATES

Market Research, Sales Planning, Management Studies For the Asbestos Industry

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ANNUAL REPORTS—1976

JIM WALTER CORPORATION

Jim Walter Corporation produces a broad line of building materials for the residential, nonresidential and renovation-remodeling construction markets. It also has significant natural resources operations in coal mining; marble, granite and limestone quarrying; oil and gas production; gypsum and asbestos mining; timber and sugar cane growing and refining. In addition, the company makes industrial products and builds and finances partially-finished homes. As in each of the past five years, Jim Walter reported another record net income and earnings per share performance. Net income for the year ended August 31, 1976, totaled $71-million compared with a restated $69.3-million a year earlier. Primary earnings per share amounted to $4.10, slightly above the $4.01 in 1975. On a fully diluted basis, 1976 earnings per share were $3.95 compared with $3.83 last year. Sales and revenues increased 2% to $1.286-billion from $1.256-billion in fiscal 1975. The increase was due principally to stronger demand and moderately higher prices for building materials and partially-finished homes, offset by lower selling prices for coke and sugar.

The new residential construction market looks good for the coming fiscal year. Current expectation for fiscal 1977 is for 1.65-million housing starts, which would represent a 16% increase over the 1.42-million starts in fiscal 1976. Because many of the firm's building products are used nearer the end of the construction cycle, the number of new residential completions may be a more valid figure for comparison. Completions should reach 1.6-million in fiscal 1977, 19% higher than the 1.34-million new residential completions during the 1976 fiscal year. Nonresidential construction should grow moderately from an estimated $38.6-billion in fiscal 1976 to $41.5-billion in the current fiscal year, an increase of 7.5%. The renovation and remodeling market, where dollar expenditures have doubled in the past ten years, has consistently looked good. This market is estimated to reach $32-billion in fiscal 1977, 8.5% higher than the $29.5-billion in 1976.

Jim Walter has budgeted a $110-million capital program for fiscal 1977, $64-million of which is allocated for facilities expansion. Another $41-million will be spent to sustain profit centers and for cost reduction, while outlays for environmental control have been budgeted at approximately $5-million. During the past five years the company has spent about $352-million on its capital programs.

MINERAL AND FIBER PRODUCTS GROUP—This Group includes Celotex, Carey-Canadian Mines, Majestic Carpet Mills and Celotex Ltd. Sales and revenues reached $443-million in 1976, 10% higher than in the previous year. Income contribution to the company's total sales and revenues was 6.6% in 1976 compared with 9.1% in 1975. . . . The market for building materials produced by *Celotex* was adversely affected by the increase in new residential construction activity falling short of industry expectations and nonresidential construction and

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

— Production of special sheets up to 9 mt length.

— Auxiliary machines for special sheet profiles.

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

— Special plants for preparation of wet and dry Asbestos.

— Machines for finishing pipes.

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Officine Meccaniche

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Telex 22114 BAZZI I
15033 CASALE MONFERRATO (Italia)

mobile home production continuing at low levels. The residential roofing market, which accounts for approximately 30% of the Celotex sales volume was particularly price competitive as industry output exceeded demand throughout most of the year. Exceptionally strong single-family construction activity resulted in record sales of hardboard siding products. Commercial roofing sales were up slightly in 1976 and should further improve in 1977. . . . *Carey-Canadian Mines* reported an excellent performance despite the carry-over of a prolonged Quebec asbestos miners strike into the first two months of the year. Income more than doubled from fiscal 1975 when the mine was on strike for five months. Demand for asbestos fibers showed gradual strengthening throughout the year and is expected to be firm through fiscal 1977. Diminishing usage of asbestos in the United States has been more than offset by increasing demand overseas. About 50% of this year's sales were outside the North American continent. The program initiated in fiscal 1976 to increase processing of medium and long-grade fibers was successful. Shipments of these grades in 1976 amounted to 50% of total deliveries as opposed to 23% just two years ago.

ASBESTOS STOCK QUOTATIONS

Close—February 15, 1977

Abitibi Asbestos	C$.60
Advocate Mines	C$2.70
Armstrong Cork	24⅛
Asarco	19
Asbestos Corporation	C$19.75
Bendix	46½
Bendix (pfd 3)	93¼
Carlisle	17
Cassiar Asbestos	C$6.125
CertainTeed	21⅞
Charter Conso.	pence 125
Colt Industries	52⅜
Colt Ind. (pfd 1.60)	28
Colt Ind. (pfd 4.25)	73
Conwest	C$3.10
Flintkote	19½
F-kote (pfd-A 4.50)	76½
F-kote (pfd-B 2.25)	37⅝
GAF Corporation	12⅛
GAF (pfd 1.20)	18⅝
Gulf & Western	15⅛
G&W (warrants)	1⅝
G&W (pfd 2.50)	37¼
G&W (pfd 3.87)	73
G&W (pfd 5.75)	74
IC Industries	23⅝
IC Ind (pfd 6)	103½
IC Ind (pfd 3.50)	43¾
Jim Walter Corporation	35⅝
Jim Walter (pfd 1)	12¼
Jim Walter (pfd 1.60)	39
Johns-Manville	29⅝
Kennecott Copper	27½
Lear Siegler	38¾
Maremont	17⅝
McAdam Mining	C$.34
National Gypsum	16⅜
Pathfinder	C$.27
Porter, H. K. (pfd 5.50)	75
Raybestos-Manhattan	30¼
Rio Algom	C$27.25
Supradur	Bid 5; Asked 5½
Union Carbide	59¾
United Asbestos Inc.	3 7/16
Woodsreef Minerals	C$.74

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MEN ON THE MOVE

ASSOCIATION OF ASBESTOS-CEMENT PIPE PRODUCERS

AACPP recently announced the election of *I. L. (Lee) Taylor* as Chairman of its Board of Directors. Mr. Taylor is Vice President, Marketing and Sales, for Cement Asbestos Products Company. Other officers elected were *Andrew Boush* of Johns-Manville Corporation as Vice Chairman and *Lloyd Ambler* of CertainTeed Corporation as Treasurer. *Joseph Jackson*, AACPP's Executive Director, was elected President and will continue as Chief Staff and Operating Officer.

THE CAPE GROUP

T. A. Wood was appointed Group Treasurer, having joined Cape Industries Ltd. in November. . . . *B. Rowe* has been appointed to the Board of Cape Contracts Ltd. as Sales Director . . . . *D. T. Weir*, Finance Director, and *A. M. B. Wilde*, Operations Director, were named to the Board of Cape Contracts International Ltd. Mr. Weir also was appointed Secretary, succeeding *M. A. Wright* who resigned from the Board. . . . Cape Automotive Services Ltd. is a new company formed within the Automotive and Engineering Division as a subsidiary of Cape Industries Ltd., responsible for investigating and developing new opportunities in the automotive replacement market. *B. C. Winch* will be appointed Managing Director and will continue as a non-executive director of Cape Distribution Ltd. *R. D. McIntyre-Brown* succeeds Mr. Winch as Managing Director of Cape Distribution.

HUMES LTD.

Michael Y. O. Fam was appointed Executive Chairman of Hume Industries (Far East) Ltd. He is Managing Director of the company and a Director of Humes Ltd. and of several other firms. Mr. Fam is a recent recipient of the Meritorious Service Medal, a distinctively high honor awarded by the Singapore Government.

QUEBEC ASBESTOS MINING ASSOCIATION

Michael J. Messel, President of Lake Asbestos of Quebec Ltd., was elected President of QAMA for the year 1977. Other officers include *M. E. Taschereau*, President of Asbestos Corporation Ltd., as Vice President, *G. A. McCammon*, Vice President of Asbestos Corporation Ltd., as Treasurer; and *Paul A. Filteau* as Secretary and Executive Vice President. Directors are *Marcel Dorais*, President and General Manager of Bell Asbestos Mines Ltd.; *M. Prus*, President and General Manager of Carey-Canadian Mines Ltd.; and *J. R. M. Hutcheson*, Chairman of the Board of Canadian Johns-Manville Co. Ltd.

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BIRTHDAY GREETINGS to . . .

H. D. S. Hardie, Personnel & External Relations Director, Turner & Newall Ltd., Manchester, England, April 15.

Harold U. Zerbe, a Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, April 15.

Jean Marc Leblond, Manager-Marketing, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, April 16.

Philip A. Meyer, Consultant, Nicolet, Inc., Short Hills, New Jersey, April 16.

Adi K. Patell, Sales Administrator, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, April 16.

G. A. Higham, Managing Director, Cape Industries Ltd., London, England, April 17.

Henry E. Sporrer, Production Manager, A/C Products Group, Wunderlich Ltd., Sydney, New South Wales, Australia, April 17.

Robert A. Matthews, Vice President, Supradur Manufacturing Corporation, and President, Precast/Schokbeton, Inc., Kalamazoo, Michigan, April 18.

S. P. Milburn, Managing Director, Ferodo Italiana S.p.A., Mondovi, Italy, April 18.

Kerry A. Rickert, General Superintendent of Manufacturing, Cement Asbestos Products Company, Van Buren, Arkansas, April 18.

Robert A. Clifton, Asbestos Specialist, Division of Nonmetallic Minerals, U.S. Bureau of Mines, Washington, D. C., April 20.

Harold E. Gilbert, Manager, Felt Mill, The Celotex Corporation, Lockland Plant, Cincinnati, Ohio, April 20.

Norman W. Kelly, Mine Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, April 23.

William T. Cavanaugh, Managing Director, American Society for Testing and Materials, Philadelphia, Pennsylvania, April 24.

R. D. Armstrong, Chairman & Chief Executive Officer, Rio Algom Ltd., Toronto, Ontario, April 25.

L. R. Blair, Vice President-Technology Transfer, Johns-Manville Corporation, Denver, Colorado, April 26.

P. W. C. Griffith, Chairman, Turner & Newall Ltd., Manchester, England, April 26.

W. A. Burgess, a Director & General Manager, Engineering Materials Division, TAC Construction Materials Ltd., Trafford Park, Manchester, England, April 27.

W. Jerry Rooney, Vice President of Marketing, Ambler Division, Nicolet, Inc., Ambler, Pennsylvania, April 28.

Calvin M. Edwards, Manager of Manufacturing, Charlotte Works, Southern Asbestos Company, Charlotte, North Carolina, April 29.

Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.

R. L. Hennebach, President, Asarco Inc., New York City, May 2.

Edmond P. Bertheaud, a Corporate Vice President, Treasurer and a Director, Nicolet, Inc., Ambler, Pennsylvania, May 3.

Reynold Nebel, Vice President, Process and Engineering Development Division, Johns-Manville Corporation, Denver, Colorado, May 3.

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G. R. Vincent, Mine Manager, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, May 3.
Guy G. Gabrielson, Jr., Chairman of the Board, Nicolet, Inc., Ambler, Pennsylvania, May 4.
E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.
Hans Thoeni, Chairman & Managing Director, Everite Ltd., Braamfontein, Johannesburg, Republic of South Africa, May 4.
James R. Carpenter, Plant Manager, Cement Asbestos Products Company, Ragland, Alabama, May 6.
J. Randall Plummer, General Manager, Pars Manufacturing Company, Ambler, Pennsylvania, May 6.
John P. Hayes, President & Chief Operating Officer, National Gypsum Company, Buffalo, New York, May 9.
Isabelle M. Dienstbach, Vice President, Executive Department, Johns-Manville Corporation, Denver, Colorado, May 10.
R. J. Lambson, General Manager, Everite Ltd., Braamfontein, Johannesburg, Republic of South Africa, May 10.
C. R. Elliott, a Director, Cassiar Asbestos Corporation Ltd., Bowmanville, Ontario, May 11.
R. B. Todd, Vice President-Manufacturing, Atlas Asbestos Company, Montreal, Quebec, May 11.
G. J. Leathley, Mine Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, May 13.

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NEW ASBESTOS PATENTS

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

British 1,454,874—A flexible laminate for use as thermal insulation jacketing for hot or cold pipes, etc., is made by coating both sides of glass scrim-reinforced asbestos paper with suitable adhesives, applying to the external side a weather-resistant polymeric film and applying to the opposite side a very thin coating of aluminum and then a polyester resin vapor barrier film; assigned to Johns-Manville Corporation, November 3, 1976; 9 pages.

British 1,455,692—Colloidal silica or like fine solids can be removed from a liquid by passing it through a bed comprising a mixture of 5-25% by weight of minus 60-, plus 400-mesh particles of an anion exchange resin and 75-95% of negatively charged asbestos, cellulose fibers, diatomite and/or expanded perlite; assigned to Ecodyne Corporation, November 17, 1976; 4 pages.

U.S. 3,988,291—Low-shrinkage, highly-abrasion-resistant, smooth-surfaced, mechanically-interfitting parts are molded from a mixture of 15-60% by weight of a low-profile resin system, 5-40% of long-fiber Chrysotile or Crocidolite asbestos, 20-80% of hydrated alumina and 2-5% of polyethylene; M. G. Knoy, R. E. Wilkerson & K. W. Johansen; assigned to Rostone Corporation, October 26, 1976; 10 pages.

U.S. 3,988,402—Non-combustible building materials of good flexibility are made by molding dewatered and dehydrated shapes formed from a mixture of about 100 parts of an hydraulic mixture of diatomite and slaked lime, 10-200 parts of asbestos and an optimum proportion of a bitumen, crystalline alumina, sulfur, a metal sulfide, or vanadium oxide; H. Ueda, N. Suzuki & M. Nagao; assigned to Sekisui Kagaku K.K.K., October 26, 1976; 13 pages.

U.S. 3,989,533—A hot-top liner for insulating cast metal ingots comprises an aqueous mixture of (1) up to 40% by weight of asbestos or slag wool, (2) up to 20% of nylon or animal or vegetable fibers, (3) 50-90% of particulate silica, alumina or zirconia, and (4) up to 20% of urea formaldehyde or comparable binder; E. J. Jago; assigned to Foseco International Ltd., November 2, 1976; 6 pages.

U.S. 3,989,630—A low-solids drilling fluid for drilling in sloughing, mud-yielding shale formations includes one-quarter to one pound of calcium chloride or calcium nitrate per barrel, 1-10 pounds of calcium hydroxide per barrel and a sufficient amount of asbestos or attapulgite to increase the viscosity to an optimum level; C. O. Walker; assigned to Texaco, Inc., November 2, 1976; 9 pages.

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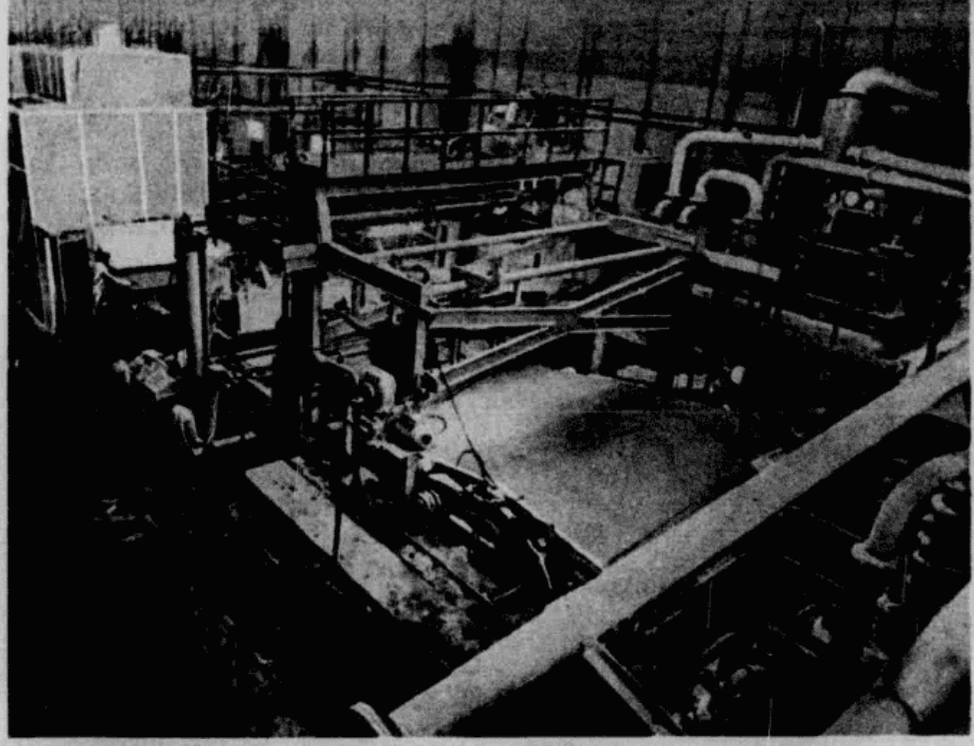
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U.S. 3,991,251—In the manufacture of a chlorine cell diaphragm having long life in service, an asbestos mat is impregnated with sodium chloride and sodium hydroxide, the mat dewatered and dried and the dried mat heated to a temperature of 110-280°C for a period of from 2-100 hours to form an alkali metal silicate layer on the asbestos fibers and improve the wet tear strength of the product; R. T. Foster, W. B. Darlington & M. Korach; assigned to PPG Industries, Inc., November 9, 1976; 7 pages.

U.S. 3,933,496—An impregnated fabric for lining deep ponds or the like against leakage of fluids is manufactured by impregnating a non-woven polypropylene fabric with a stable anionic asphalt emulsion comprising about 100 parts by weight of an anionic asphalt, about 7.5 parts of asbestos fibers and about 45 parts of a .5% solution of actyl-phenoxy-polyethoxyethanol; C. R. Bresson & F. D. Spaulding; assigned to Phillips Petroleum Company, November 23, 1976; 4 pages.

STILL AVAILABLE . . .

CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [$18.95 to the U.S., Canada and Mexico; $21.95 to all other countries; place orders with ASBESTOS Magazine]

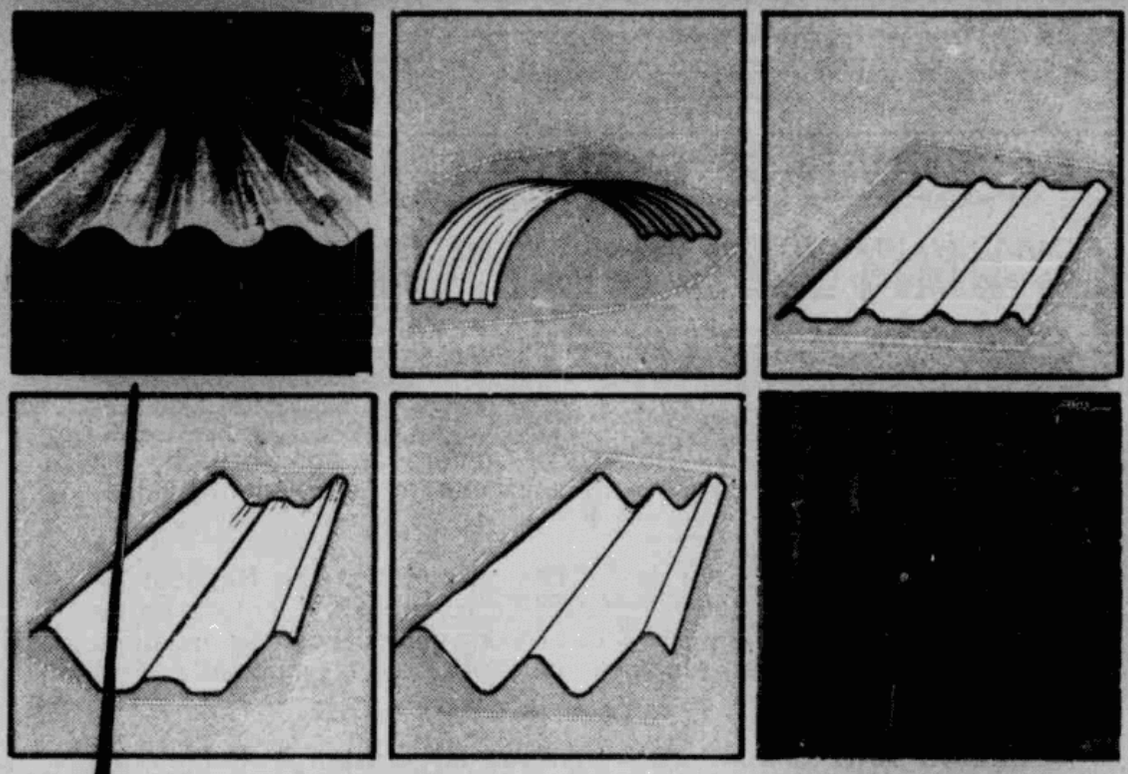
THE ASBESTOS FACTBOOK, 3RD EDITION—Compiled by the staff of ASBESTOS Magazine; written in layman's terms; offers useful information on the origin, locations and uses of asbestos; gives the chemical compositions of the various types of the mineral; contains data concerning testing methods and grades. [28 pages; $1.00 per paper-bound copy; order from ASBESTOS Magazine]

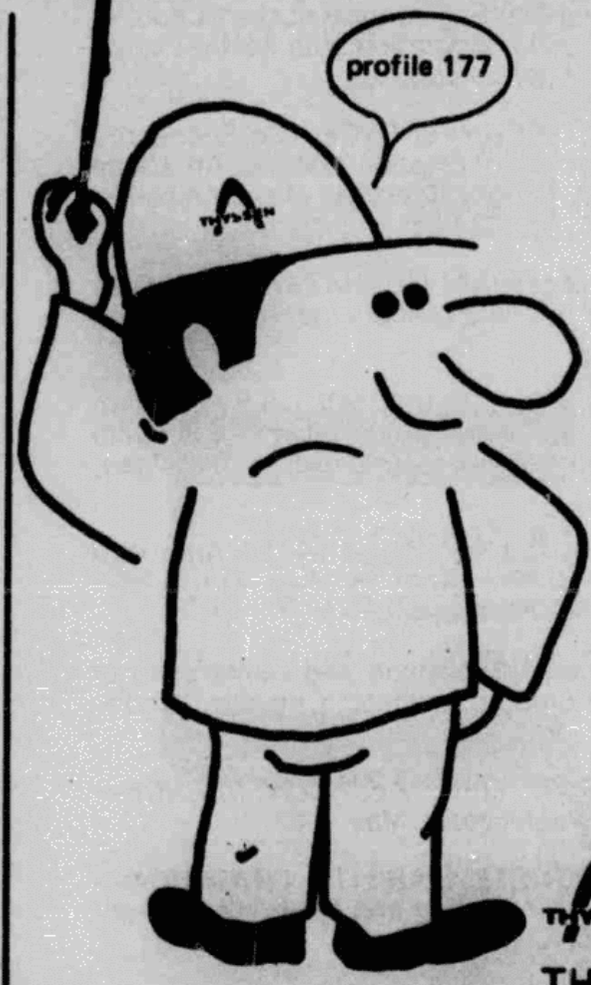
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CALENDAR OF EVENTS

CANADIAN INSTITUTE OF MINING AND METALLURGY—79th Annual General Meeting; Chateau Laurier Hotel, Ottawa, Ontario, *April 17-20.*

ASSOCIATION OF ASBESTOS CEMENT PIPE PRODUCERS—5th Annual Meeting and Industry Conference; Camino Real Hotel, Mexico City, Mexico, *April 17-21.*

INDUSTRIAL POLLUTION—5th Annual Conference sponsored by the Water and Wastewater Equipment Manufacturers Association; Atlanta, Georgia, *April 18-21.*

LEGAL ASPECTS OF OSHA ACT 1970—Seminar of the National Institute of Occupational Safety and Health; program will include an in-depth review of the Act and sessions on such subjects as civil litigation, role of expert witnesses, employer defenses, etc.; Cincinnati, Ohio, *April 18-22.*

MODELING AND SIMULATION—8th Annual Pittsburgh Conference sponsored by the Department of Electrical Engineering of the School of Engineering, University of Pittsburgh, in cooperation with several associations; Pittsburgh, Pennsylvania, *April 21-22.*

AMERICAN OCCUPATIONAL HEALTH CONFERENCE—Co-Sponsored by the American Occupational Medical Association and the American Association of Occupational Health Nurses; Boston, Massachusetts, *April 25-28.*

RECOGNITION OF OCCUPATIONAL HEALTH HAZARDS—NIOSH Course #510 for those just entering the field of industrial hygiene; Ann Arbor, Michigan, *April 25-29.*

REMOTE SENSING OF ENVIRONMENT—11th International Symposium of the Environmental Research Institute of Michigan in cooperation with the University of Michigan Extension Service; Ann Arbor, Michigan, *April 25-29.*

BASICS OF INDUSTRIAL HYGIENE—Course offered by the American Industrial Hygiene Association and NIOSH; *April 25-29* in Ann Arbor, Michigan; *June 6-10* in Philadelphia, Pennsylvania.

ELECTRIC VEHICLES—1st International Exposition and Conference of the Electric Vehicle Council/Edison Electric Institute; Chicago, Illinois, *April 26-29.*

PACIFIC NORTHWEST METALS AND MINERALS CONFERENCE—Washington Plaza Hotel, Seattle, Washington, *May 4-6.*

TECHNICAL STANDARDS IN PRODUCTS LIABILITY LITIGATION—Symposium of the American Society for Testing and Materials; Inn-on-the-Park and Prince Hotel, Toronto, Ontario, *May 5.*

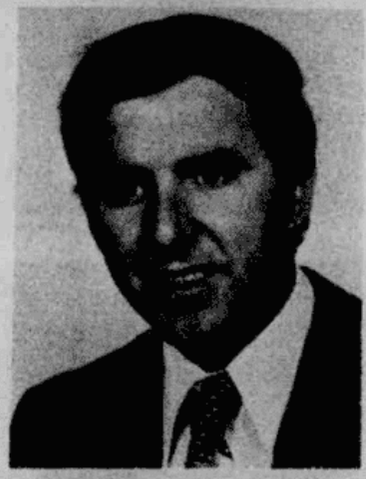
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(February 1927 ASBESTOS)

New Advertisers: S.A. Asbestile, Brussels, Belgium;
Beton & Mollith, S.A., Moll, Belgium.

United States production of 3,950,000 passenger cars and 530,000 trucks was reported for the year 1926. Total wholesale value was $3,056,950,000. Total registrations of motor vehicles in the U.S. amounted to 22,330,000 cars and trucks, 81% of total world registrations.

Asbestos-Cement Pipes Ltd., London, England, was registered as a private company to manufacture and deal in all manner of asbestos-cement products under agreements with E. R. Mund and S.A. "Eternit" Pietra Artificiale. Mr. Mund was to serve as Managing Director.

Standard Asbestos Company, New York City, was incorporated by H. A. Hirschfeld, C. H. Weaver and H. A. Schumacher.

Johns-Manville Corporation completed preparations for erection of a large ore-milling facility at its asbestos mines in Chrysotile, Arizona. It was intended to result in a substantial increase in mine output and doubling of the labor force.

(March 1927 ASBESTOS)

This issue of ASBESTOS contained a brief history of the eight-year-old Clark Asbestos Company, Cleveland, Ohio. Founded by the brothers George N. and Robert L. Clark, former employees of Keasbey & Mattison Company, the firm had rapidly become a leader in the sale and application of insulations and roofing products.

The Asbestos Brake Lining Association was strengthened by the addition of two prominent companies to its roster of members. The new members were The Manhattan Rubber Company, Passaic, New Jersey, and Ferodo & Asbestos, Inc., New Brunswick, New Jersey.

A belated report was made of the death of Henry N. Winner, General Manager of Garlock Packing Company, Palmyra, New York. Mr. Winner died in Philadelphia, Pennsylvania, on November 12, 1926, after a very brief illness. All his working life had been spent in the mechanical packing business.

General Asbestos & Rubber Company, North Charleston, South Carolina, announced the election of M. B. Barkley as President, E. H. Jeffords as Vice President and J. C. Bremer as Secretary.

ASBESTOS reported the death on March 7, 1927, of W. Reid Hayden of Baltimore, Maryland. The company which carried Mr. Hayden's name was a well known contractor and distributor of Johns-Manville insulations and roofing materials in the Baltimore area.

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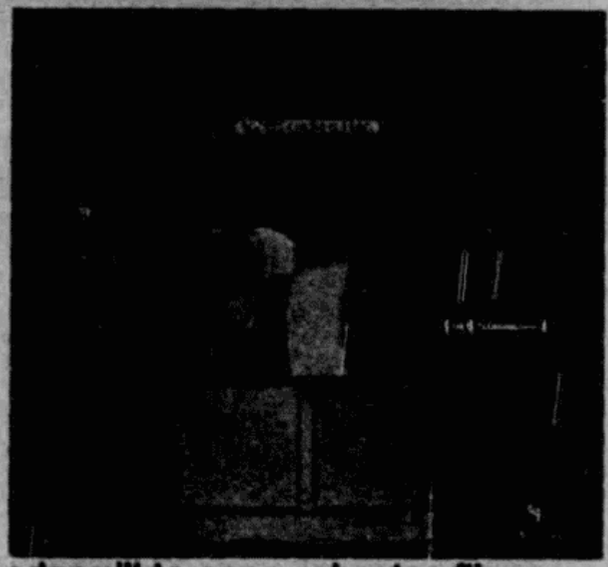
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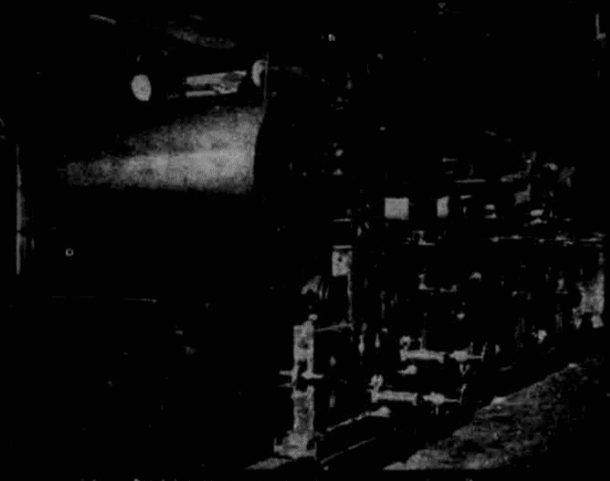


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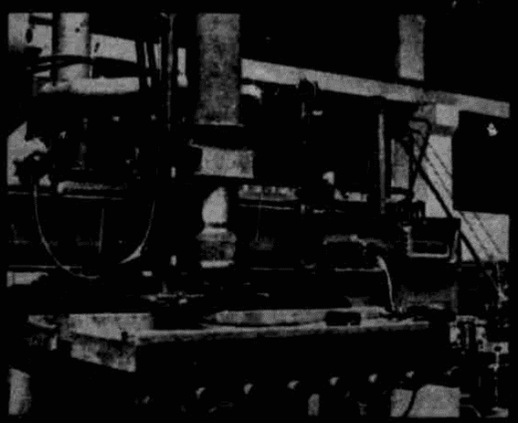
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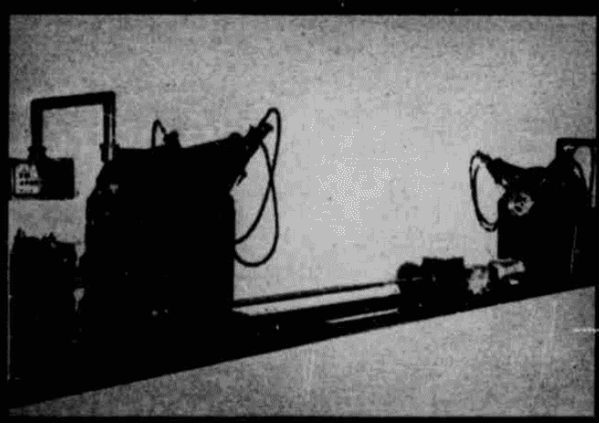
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