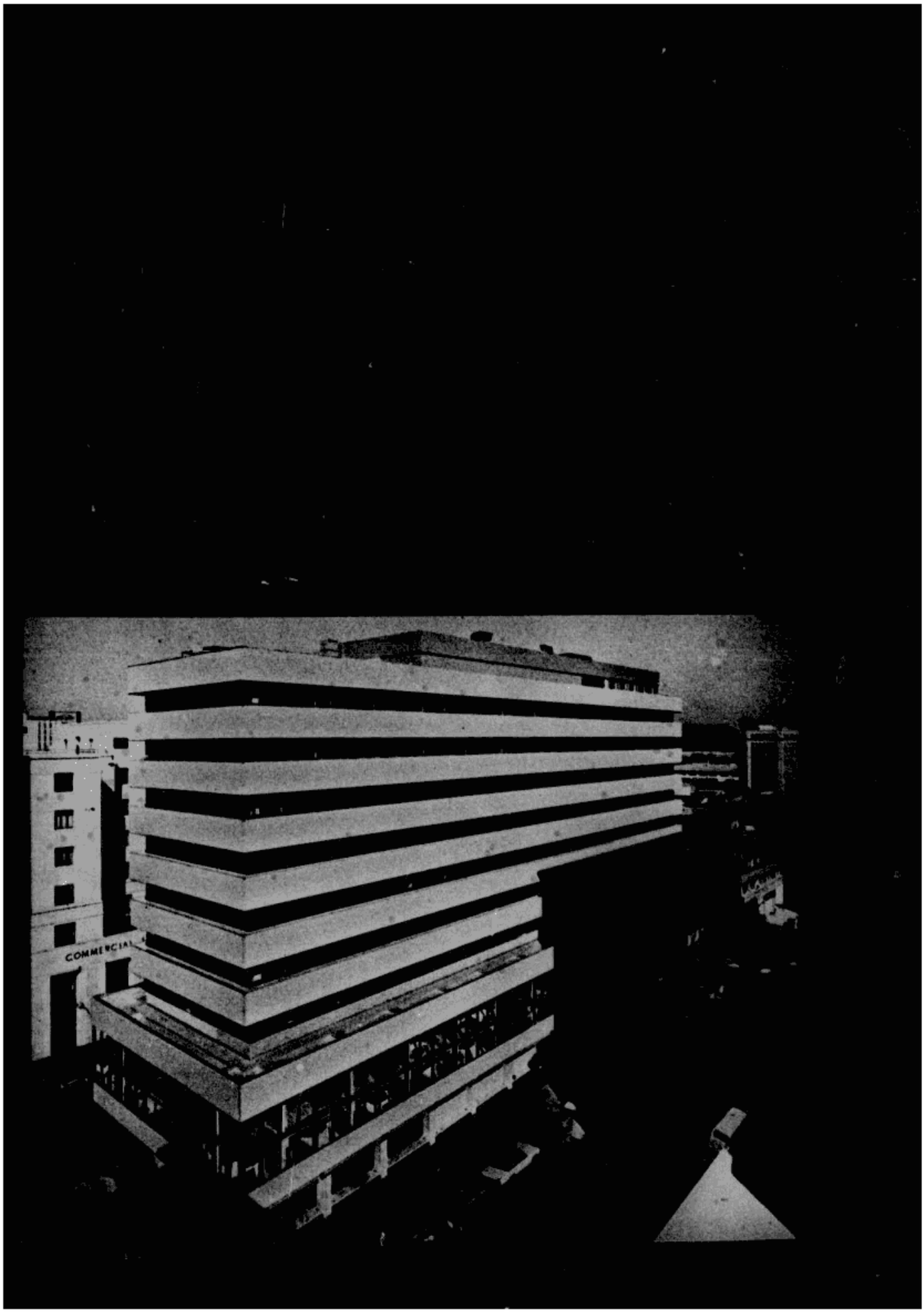
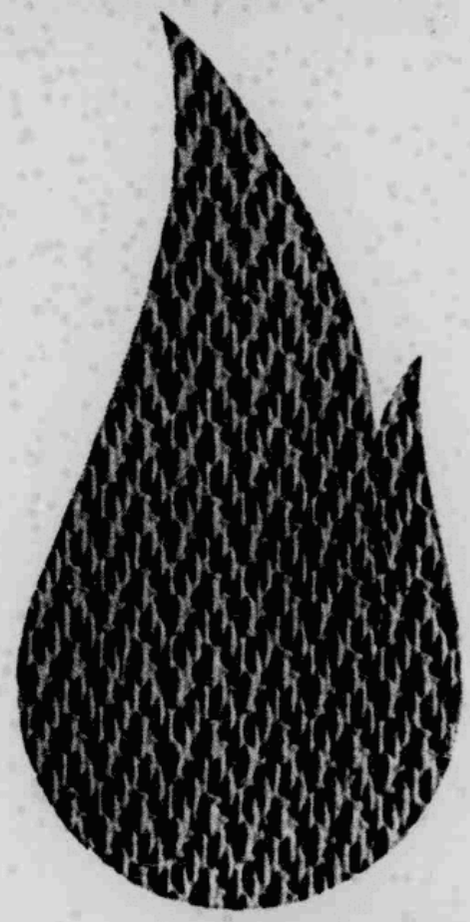


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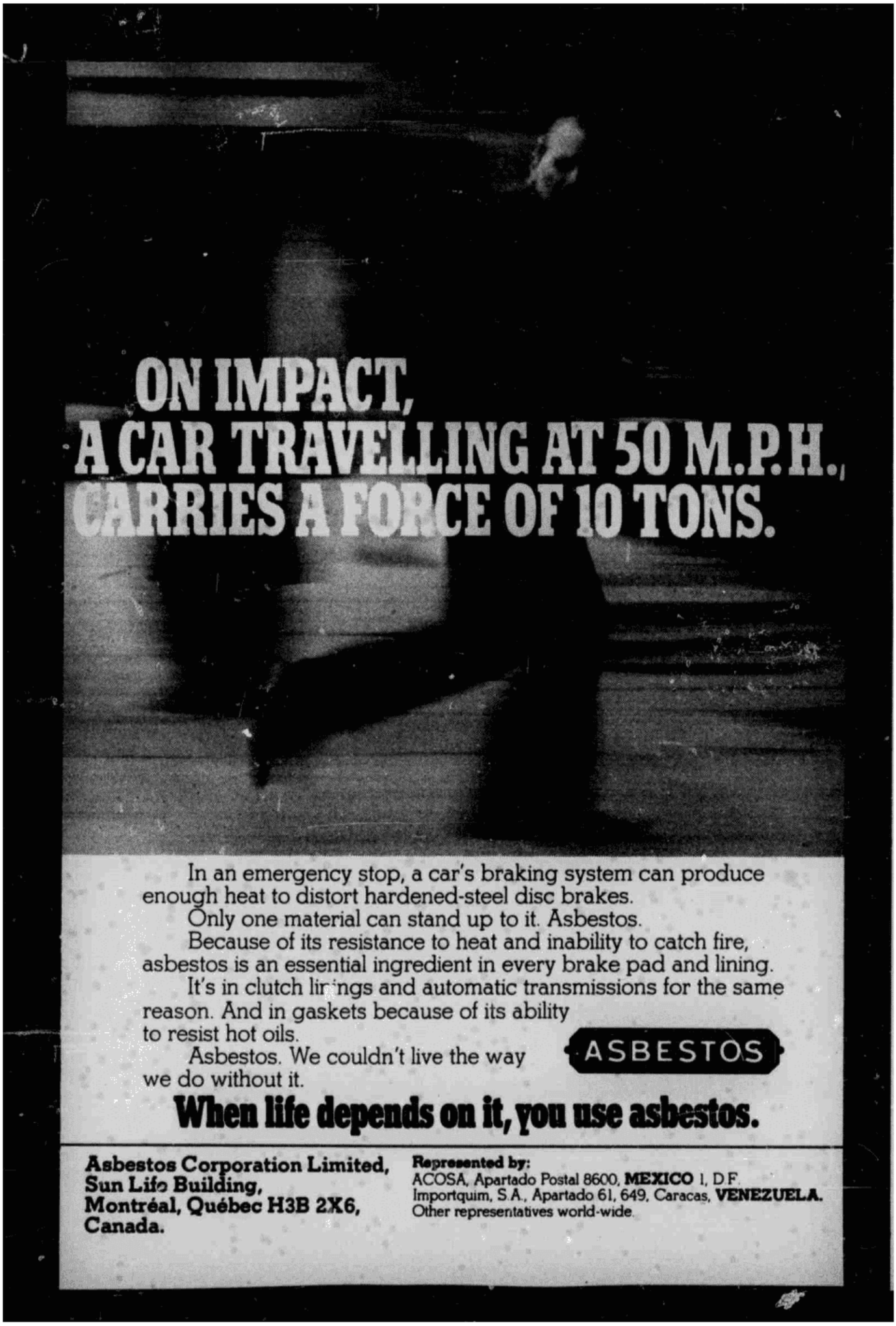
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ASBESTOS

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CONTENTS

ASBESTOS CORPORATION—50th ANNIVERSARY 4
COMPANIES & PRODUCTS (INCLUDING THE COVER) 6
MARKET CONDITIONS: GENERAL BUSINESS 10
ASBESTOS FIBER 12
PAUL O. NICODEMUS—RETIRES 12
U.S. INDUSTRIAL HEALTH MATTERS 14
PRODUCTION—IMPORTS—EXPORTS 20
THE MINING SCENE 30
1975 ANNUAL REPORTS: CAPE, ASARCO & PORTER 32
ASBESTOS STOCK QUOTATIONS 37
BIRTHDAY GREETINGS 38
BOOKS OF INTEREST 40
NEW ASBESTOS PATENTS 42
CALENDAR OF EVENTS 44
REMEMBER WHEN? 46

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ASBESTOS CORPORATION LTD. —50 YEAR HISTORY

REPRINTED FROM ASBESTOS CORPORATION'S 1975 ANNUAL REPORT

Although the year 1975 marked the 50th anniversary of the formation of Asbestos Corporation Ltd. as such, the company's origins go back for almost another 50 years, for it was in 1876 that the asbestos deposits, located in Quebec's Eastern Townships, were first discovered. The original commercial exploitation of these deposits was undertaken in 1877 when Andrew Johnson, a resident of Clapham, a small village not far from what is now the City of Thetford Mines, commenced mining operations in a small way. In that year shipments of 50 tons were made by ox-cart to the nearest railway station 30 miles away.

Johnson's Company was organized in 1879 by Andrew Johnson and his two brothers but it was not incorporated until 1885. It operated until 1964 when its properties were acquired by Asbestos Corporation.

About the same time that Andrew Johnson was making his start in the asbestos mining industry, many other entrepreneurs were seeking asbestos in the area and from these modest beginnings sprang Quebec's asbestos mining industry which today accounts for approximately 30% of the world's production of Chrysotile asbestos.

At least 80 different incorporated companies have at one time or another operated the various properties which are now owned by the company. The King Mine was opened by the King brothers of Quebec, originally lumber merchants who, by a stroke of good fortune whilst procuring large tracts of timberland in the Thetford area, obtained at the same time some of the finest asbestos-bearing property in Canada. The King Mine has been operating continuously since 1878.

At the time of its incorporation the company operated seven different mines, but in the depth of the depression in the 1930's just the King Mine was in production, and then only for six hours a day.

In 1930 the company had a loss of $1,229,000—a staggering amount in those days. In contrast, 1975 profits amounted to $7,614,000 —but, during the same period, wages increased from 20¢ an hour to $6.22. In 1930 total assets of the company amounted to $21,428,000; today they are $191,679,000.

In 1931, in common with many other industries at that time, the company was seriously affected by the curtailment in the demand for its product arising from the then prevailing world-

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 6 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/6

wide depression. The following year, as a result of a stronger financial structure and improved mining methods (notably the introduction of an underground system of mining known as block caving at the King Mine), operating results were a little better.

Throughout the remainder of the 1930's, with the gradual return to normal business conditions and more efficient management, the affairs of the company began to improve. In 1935 the directors were able, for the first time in four years, to report a profit—a modest $15,415. With the increased demand for asbestos fiber, the Beaver and British Canadian Mines, which had been shut down since 1925, were reopened in 1936. In 1932 the company employed only 316 men—today there are 2,113 employees.

The war years saw the company's business undergo considerable adjustment in order to conform to government regulations. All export shipments, which comprised 96% of the company's business, were subject to license and, moreover, the allocation of certain grades of asbestos fiber, a strategic material, to various consumers was under strict government control. Traditional markets were lost; the demand for medium length fiber was curtailed; and the requirement for spinning grades was increased beyond the capacity of the company to provide.

With the cessation of hostilities, the company was faced with an unprecedented demand for asbestos-cement grades required for the construction industry and had no difficulty in disposing of the inventory of these grades which had been accumulated during the war.

In 1955 the Normandie Mine was brought into production and the Vimy Ridge Mine shut down. In 1958 the King and Beaver Mines were consolidated and a new mill was built to handle ore from both properties.

Then, in 1964, Asbestos Corporation made two important acquisitions—the two mines and mills of the Johnson's Company and the Asbestos Hill property at Ungava. The first of these brought together the two pioneering Canadian asbestos producers, both of whom had been mining side by side on the same asbestos orebodies for almost 90 years. The Asbestos Hill property, a high grade orebody located about 1,130 miles due north of Montreal in the Ungava Peninsula of Quebec, was brought into production in 1972. At the same time a new mill to treat the ungraded fiber from Asbestos Hill was constructed in Nordenham, West Germany.

Today the company is in an excellent position to provide the wide variety of asbestos fiber required in the world markets for the foreseeable future and looks forward to its next 50 years as one of the world's largest asbestos producers.

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 7 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/7

COMPANIES & PRODUCTS

GLASAL FROM EVERITE—THE COVER

As will be noted on the front cover of this issue, the National Employer's House, Horter's new prestige complex in Johannesburg, Republic of South Africa, is an architecturally-impressive structure. Glasal panels, an asbestos-cement product of *Everite Ltd.*, were used to face all sides of the building with decorative, shell-colored bands, giving the House a majestic, ship-like appearance. The panels were pop-riveted to a steel frame with the heads of the rivets covered with matching-colored plastic cups. . . . Glasal panels are fully-compressed, autoclaved, a/c sheets, surface coated with baked mineral enamel. Available in a variety of colors, the panels are 6 mm thick with a mass of 12 kg/m^2. Incombustible and impervious to weather, the materials lend themselves to many indoor and outdoor applications such as fascias, door linings and ceilings. They are eminently suitable for use in hospitals and operating rooms as their smooth surface resists the collection of possibly-disease-ridden dust.

AMIANTUS CENTRE EXPORT

The *Amiantus Centre Export,* Hamburg, Germany, reports that the use of asbestos-cement pipe for specialized applications accounts for about 20% of its total a/c pipe production. The program, called Non-Infrastructure, encompasses a full range of novel uses for the product—from chimneys to kiosks, and silos to sewage shafts. Categorically the program includes container, manhole, tunnel, column/pile, well construction and underground storage. Installed in parallel batteries, conventional a/c pipe has been used for the above-ground storage of animal feed and wine as well as the below-ground storage of drinking water and fuel oil. In manhole structures, a/c pipes have been used as installation shafts for automatic air release valves, water meters, sewage pumps, drain devices and personnel access. [AACPP Pipe Report]

GASKET GUIDE FROM PARS

A guide to the purchase of the right specialty gasket has been issued by *Pars Manufacturing Company,* Ambler, Pennsylvania. The literature covers the seven major areas of custom die-cut,

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non-metallic gaskets; braided packings; asbestos textiles; ceramic fiber products; woven glass fiber textiles; Teflon specialties; and woven asbestos brake linings. Pars has expanded its facilities to include large-press capacity for small and medium run, non-metallic, die-cut fabrications and the ability to fabricate unique, high-temperature gaskets. Maximum cutting capacity is six feet outside diameter.

ETERNIT BUYS CALZONI PLANT

The *Eternit Bagnoli Factory*, located near Naples, Italy, is replacing one of its plants that makes 5-meter-long, asbestos-cement pipes. Eternit has placed an order for the necessary equipment with the *Calzoni Factory of Riva Calzoni S.p.A.*, Bologna. The machine was designed by the supplier according to modern techniques and exacting specifications. It will be capable of producing pipes in sizes with inside diameters as low as 100 mm to maximum outside diameters of 2500 mm.

PRODUCT LIABILITY COMMITTEE FORMED

In accordance with the provisions of the Federal Advisory Committee Act and the Office of Management and Budget Circular A-63, and after consultation with OMB, the U.S. Secretary of Commerce has determined that the establishment of the *Advisory Committee on Product Liability* is in the public interest in connection with the performance of duties imposed by law on the *U.S. Department of Commerce*. . . . The Committee will advise the Secretary on issues relating to product liability, review findings of the research staff of the Interagency Task Force on Product Liability, review data and analyses prepared by or for the research staff and prepare critical comments. The Committee will also propose potential remedies and review other proposals and their impacts and advise the Commerce Department as to the views of particular interest groups on proposed remedies. [Federal Register 6/7/76]

ASBESTOS-FREE JOINT COMPOUND

United States Gypsum Company announced it is eliminating asbestos fiber from all of its nine basic joint compounds and six basic texture products, without adversely affecting quality. The compounds are used to form drywall panels into wall and ceiling surfaces in single-family homes and apartments.

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MARKET CONDITIONS

GENERAL BUSINESS

The recovery in general business which began over a year ago is showing many signs of continuing vigor. While the improvement to date has been somewhat greater than was generally anticipated, the pace has slowed recently, bolstering hopes that the upturn will be sustained for an extended period with no serious threat of overheating the economy and initiating a sudden reversal of present favorable trends.

There are still some sectors of the economy, particularly in the capital goods area, which remain in the doldrums, but many such weaknesses can be attributed to the usual time lag between capital goods activity and that in consumer goods. However, plans of business indicate a pick-up in spending for plant expansion and modernization may be expected in the near future. Housing starts turned up slightly in May but this industry has been one of the major disappointments of the recovery thus far. Industrial output, on the other hand, rose by 0.7% in May, marking the 14th consecutive monthly increase in this key indicator.

Corporate profits have risen considerably faster than predicted and many companies are increasing dividends as the overall payout percentage has dropped substantially below normal. Employment is rising and unemployment is dropping although it seems unlikely that the unemployment rate will fall much below 7% this year.

Short-term interest rates seem to have stabilized early in June. This development plus increasing recognition of the underlying strength of the business recovery contributed to renewed investor confidence which resulted in a strong stock market rally starting in mid-June. While market action over the short run is unpredictable, business fundamentals favor a reasonably good market climate for some time to come.

On the political front, Mr. Carter now appears assured of the Democratic Presidential nomination but the race between Mr. Ford and Mr. Reagan for the Republican nomination is closer than ever. The Democrats have drafted a tentative platform which leans somewhat toward the conservative side. This appears to conform rather closely to what is known about Mr. Carter's position on major issues and offers some assurance that, no matter who is finally elected, the national economic policy will be one of moderation and will include a reasonable degree of fiscal restraint.

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 12 of 54
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ASBESTOS FIBER

The year 1976 is shaping up as expected and demand continues strong for all grades of asbestos fiber. Unofficial figures show Canadian production of asbestos for the First Quarter of 1976 was 411,720 short tons vs. 318,601 tons for the same period in 1975.

To date, demand for all fiber grades continues to exceed supply and this situation should continue through this year and into 1977. The economic recovery in the United States is rolling past its first anniversary and continues to gather steam. Anticipated as the year progresses are a continued high level of automotive production and a greater demand for durable goods and construction materials. These developments will buoy the demand for all fiber grades in the U.S.

Asbestos shipments to overseas countries, which consume large quantities of asbestos cement grades, continue strong as inventories are replenished. This trend should continue throughout 1976.

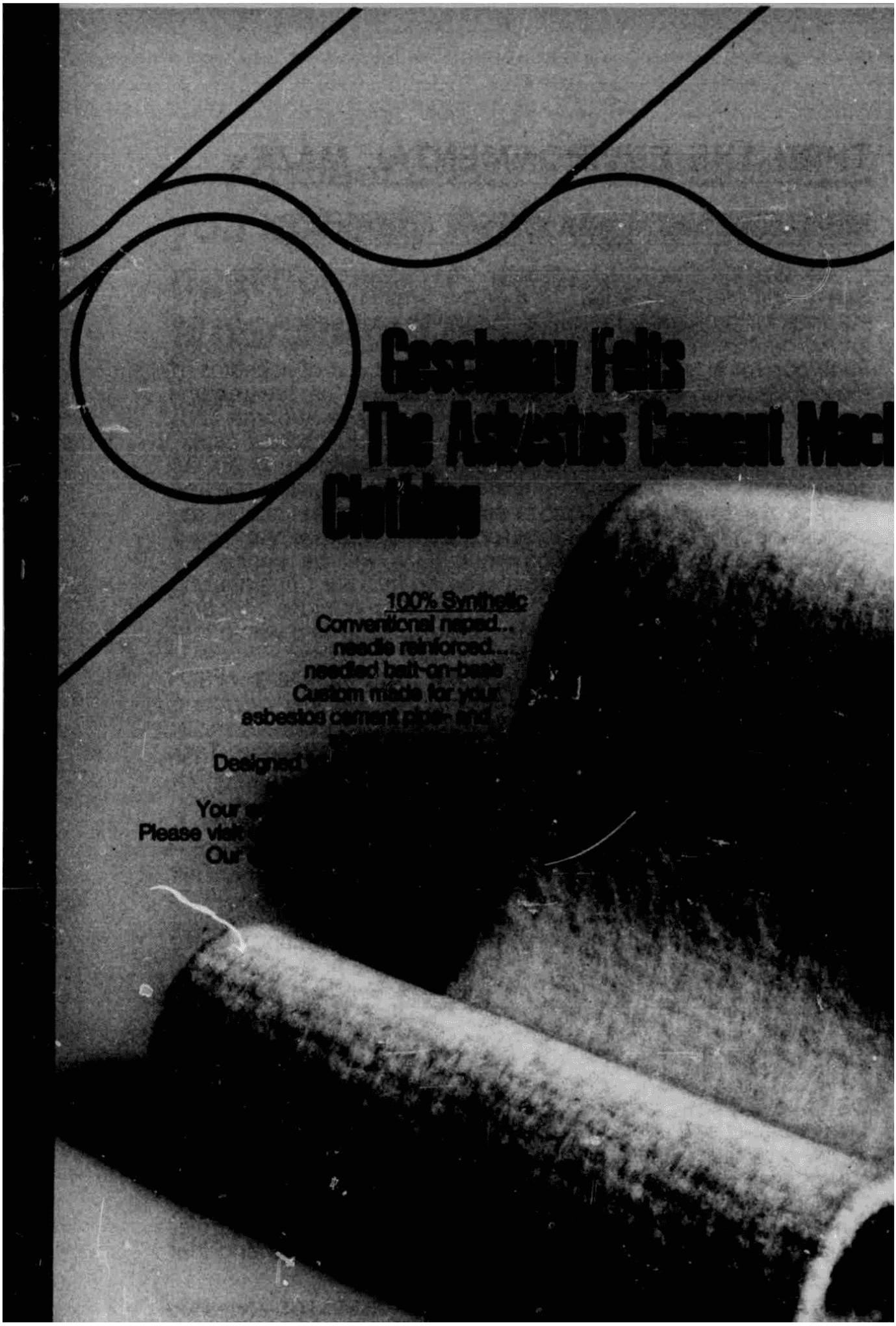
P. O. NICODEMUS—RETIRED

Paul O. Nicodemus retired July 1, 1976, as Senior Insulations Applications Chemist and Laboratory Supervisor, General Electric Wire & Cable Department, Lowell, Massachusetts. He joined the company in 1942.

For many years Mr. Nicodemus was a representative of GE on two Committees of the American Society for Testing and Materials: D-9 on Solid Electrical Insulations and D-13 on Textiles. Since 1954 he has been Chairman of ASTM Committee D-13.14 on Asbestos Textiles. He will continue in this capacity which includes working closely with the Technical Committee of the Asbestos Textile Institute, Inc., a rapport that has been and will be instrumental in keeping current all ASTM Standards concerned with asbestos textile commodities.

Concerning charitable undertakings, Mr. Nicodemus will continue to supervise the Retarded Children Instructional Bowling League and as a Member of the Board of Directors of Camp Paul (an organization that provides summer vacations for retarded children).

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 14 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/14



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THRU THE ENVIRONMENTAL MAZE

OSHA CONSTRUCTION ADVISORY COMMITTEE

As this is written, the *Advisory Committee on Construction Safety and Health* is about to meet in Washington, D. C. The purpose of the meeting is the presentation and adoption by the full committee of recommendations developed by the *Asbestos Subgroup* for a vertical standard regulating the use of asbestos in the construction industry. Of prime interest will be the recommendation that the 8-hour, time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed two fibers per cubic centimeter of air, as determined by the membrane filter method. Also, no employee shall be exposed at any time to airborne concentrations of asbestos fiber in excess of 10 fibers/cc of air, as determined over a 15-minute period. Other recommendations will be concerned with definitions, monitoring, employee notification, engineering controls, personal protection, medical examinations, record-keeping, caution signs and labels, housekeeping and waste disposal and asbestos fiber handling.

At the last meeting of the Subgroup held June 2-3 in San Diego, California, the *Asbestos Information Association/North America* was represented by Guy G. Gabrielson (Nicolet, Inc.), Chairman of the AIA/NA Asbestos Industry OSHA Standard Task Force; Dr. Hans Weil (Professor of Medicine, Tulane University), AIA/NA Medical consultant; and Dr. H. B. Rhodes (Union Carbide Corporation), Chairman of the AIA/NA Standards & Technical Committee. In company were the following representatives of Johns-Manville Corporation: Dr. Paul Kotin, Vice President, Health Safety and Environment; Dr. Gerald Chase, Biostatistician/Epidemiologist; Milton Trosper, Jr., Resident Engineer; and Richard P. Carter, Manager, Government Affairs.

NOISE/ECONOMIC IMPACT ANALYSIS

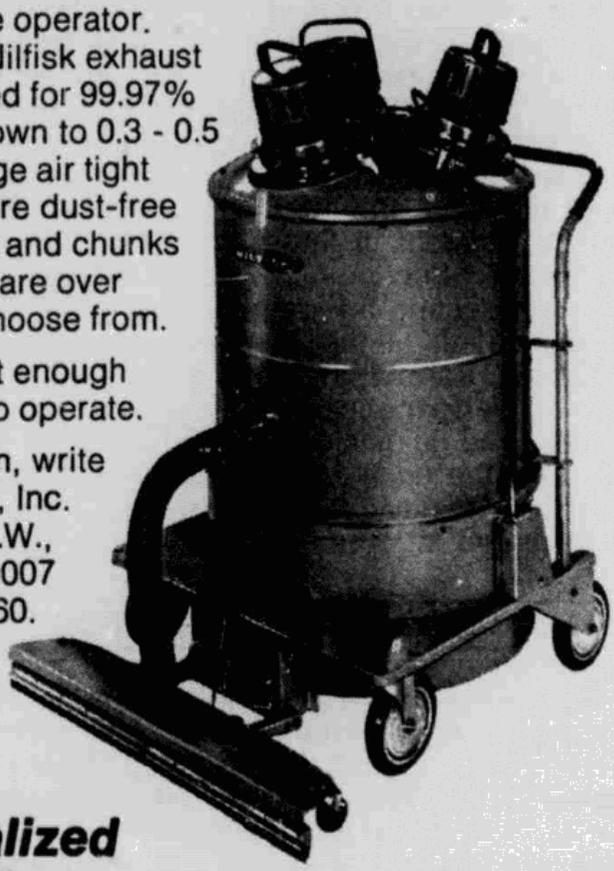
OSHA has received an Economic Impact Analysis (EIA) of the Standard on Occupational Noise Exposure (29 CFR, Part 1910.95), proposed October 24, 1974. The EIA was prepared for OSHA by Bolt Beranek and Newman, Inc., of Cambridge, Massachusetts. It addresses many of the basic questions relating to the proposed regulation. OSHA invites interested persons to submit any new information that may be available on the issue of economic feasibility of the proposal or on any other issues discussed in the EIA. It is emphasized that the record of the rule-making proceedings on noise is already very extensive and that

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ACL Doc 12687 · Page 16 of 54
Published by AsbestosClaims.Law
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data and material presently in the record need not be repeated. Written data, views and arguments must be postmarked on or before July 29, 1976. In addition, an informal public hearing will be held beginning August 24, 1976, for the receipt of oral testimony. Persons desiring to appear at the hearing must file a notice of intent to appear, also postmarked on or before July 29. A copy of the EIA may be purchased for $2.00 by telephoning OSHA's Technical Data Center at (202) 523-8076. [Federal Register of June 18, 1976, pages 24718-19]

EPA MINERAL MINING & PROCESSING PROPOSAL

The *U.S. Environmental Protection Agency* has proposed (in the Federal Register of June 10, 1976; pages 23561-23573) effluent limitations for existing sources and standards of performance and pretreatment standards for new sources in the "Mineral Mining and Processing Point Source Category." Previously EPA had promulgated a regulation adding Part 436 to Chapter 40 of the Code of Federal Regulations, establishing effluent limitations and guidelines for existing sources based on the best practical control technology currently available for 17 subcategories. Pretreatment standards for existing sources were proposed at that time for the same subcategories. This latest proposal would amend Part 436 by adding certain sections, including sections to *Subpart G—the Asbestos and Wollastonite Subcategory*. Section 436.73 proposes effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Parts 436.75 and 436.76 are concerned with standards of performance and pretreatment standards for new sources. The guidelines and standards of performance propose there shall be no discharge of process generated waste water pollutants into navigable waters. The pretreatment proposals are for pollutants introduced into publicly owned treatment works.

MESA AMENDS MINE STANDARDS

Miscellaneous amendments to Parts 55 and 57 of CFR 30 have been promulgated by the *U.S. Mining Enforcement and Safety Administration* (see Federal Register of June 10, 1976, pages 23611-23618). They are concerned with *Health and Safety Standards for Metal and Nonmetallic Open-Pit and Underground Mines*. Following the notice of proposed rulemaking on September 25, 1975, the standards promulgated are those proposed

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standards which were not subject to a public hearing or on which no comments were received. Effective July 15, 1976, the amendments involve welding, cutting, arc welding and soldering; the application of heat to pipelines or containers which have contained flammable or combustible substances; boreholes and tamping poles; black powder used for blasting; loading, hauling and dumping; and ventilation.

NIH FORMS CLEARINGHOUSE

The Director of the National Institutes of Health (HEW), announced the establishment on May 5, 1976, of a *Clearinghouse on Environmental Carcinogens*. It is formed under the authority of the Public Health Service Act and will be governed by the provisions of the Federal Advisory Committee Act. It will serve as an Advisory Committee, providing to the Directors of the National Cancer Institute and the Division of Cancer Cause and Prevention advice concerning matters relating to the identification and evaluation of environmental carcinogens.

TVA ADOPTS CONTROL PROGRAM

The *Tennessee Valley Authority* has developed a multifaceted program to control airborne asbestos fibers at its coal-fired, steam-electric generating plants. The program integrates industrial hygiene controls, medical surveillance and worker education. The insulators employed at the plants are exposed to asbestos, at about six-month intervals, during repair and maintenance. Old Amosite-containing insulation is removed from systems scheduled for maintenance, and new insulation is installed. Pure asbestos is no longer specified in new plant design and construction and the use of asbestos in existing plants is being phased out. Fibrous glass, rock wool, mineral wool and ceramic fibers are common substitutes.

SELIKOFF SPEAKS OUT

In an interview on the U.S. national NBC Today Show, Dr. Irving J. Selikoff said that if asbestos fibers and other environmental sources of cancer are properly controlled, they do not have to be banned to protect society. He stated there are many valuable things in our society that we cannot really do without but once we know which can cause cancer, we can do a great deal to control them without banning them outright. Dr. Selikoff is Professor of Environmental Medicine and Head of the Environmental Health Sciences Center at Mount Sinai Medical Center, New York.

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 20 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/20



Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 21 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/21

PRODUCTION—IMPORTS—EXPORTS

AUSTRALIAN IMPORTS & EXPORTS

For the nine months from *July 1975-March 1976*, 39,077 metric tons of asbestos valued at A$12,770,602 were *imported* into Australia, 961 tons and $5.4-million more than in the like period a year earlier. The breakdown by variety of asbestos for the latest period is: Chrysotile, 19,908 tons, $6.5-million; Amosite, 13,490 tons, $4.6-million; and Other, 5,678 tons, $1.7-million. . . . *Exports* of all types of asbestos for the 9-month period through March 1976 totaled 26,967 tons valued at $8,308,691, an increase of 15,075 tons and $6.3-million over the same period the prior year. [Commonwealth Bureau of Census & Statistics, Canberra]

AUSTRALIAN A-C SHEET PRODUCTION

Production of non-acoustic, asbestos-cement sheets for the *Six Months Ended December 1975* totaled 21,291,000 square meters. The figure for the same period a year earlier was 23,765,000 square meters. [Australian Bureau of Statistics, Canberra]

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 134,598 short tons in *April 1976*, 59,240 tons more than in the same month a year earlier. The cumulative total for the *First Four Months of 1976* was 546,318: 438,330 tons from Quebec plants and 107,988 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the period January-April 1975 was 394,009 tons. [Statistics Canada, Ottawa]

FELT SHIPMENTS FROM CANADA

Shipments of *woven and/or needled wet felts and jackets* for the *First Quarter 1976* amounted to 300,668 pounds valued at $4,069,847 to papermills in Canada and 135,410 pounds valued at $1,699,452 to foreign papermills and manufacturers of asbestos-cement pipes and sheets. Shipments of needled felts to Canadian producers of a/c pipes and sheets totaled 5,871 pounds valued at $42,698. Total shipments of *asbestos, cotton or synthetic dryer felts and fabrics* were 831,459 square feet valued at $2,282,375 to Canadian papermills and 223,791 square feet valued at $566,113 to foreign papermills. [Statistics Canada, Ottawa]

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 22 of 54
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ASBESTOS IN THE USSR

According to the "Engineering and Mining Journal," the Russians stated that in 1975 they produced 2,229,000 metric tons of asbestos and the goal for 1976 is 2,298,000 tons of Grades 1 through 6. The only mention of asbestos in the first public draft outline of the USSR's 1976-1980 five-year plan is as a component of asbestos-cement. Mass production of this construction material will receive heavy Soviet emphasis in coming years to help reduce the use of metal in home building. The program, coupled with Soviet consumer complaints that they cannot get asbestos sheets for home use, leads observers to believe that internal demand for asbestos is strong in the USSR making it a priority item for extraction and for further geological search. The publication further estimates that the USSR probably exported over 500,000 tons of asbestos in 1975 since it exported 449,000 tons in 1973 and some 528,000 tons in 1974. The indicated price rose from 118 rubles per ton in 1973 to 126 rubles per ton in 1974. A Soviet trade journal reported early in 1975 that for that year the East Germans had ordered 40,000 tons of fiber, the French 60,000 tons and the West Germans 13,000 tons—and the Yugoslavs were likely to buy 30,000 tons. This indicates that at least 143,000 tons of asbestos produced in Russia had been sold early in the year to only four buyers.

OUR 27th YEAR

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VALLEY ASBESTOS (PTY) LTD.

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VOLKSKAS BUILDING · 76 MARKET STREET

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We are represented in most European Countries,

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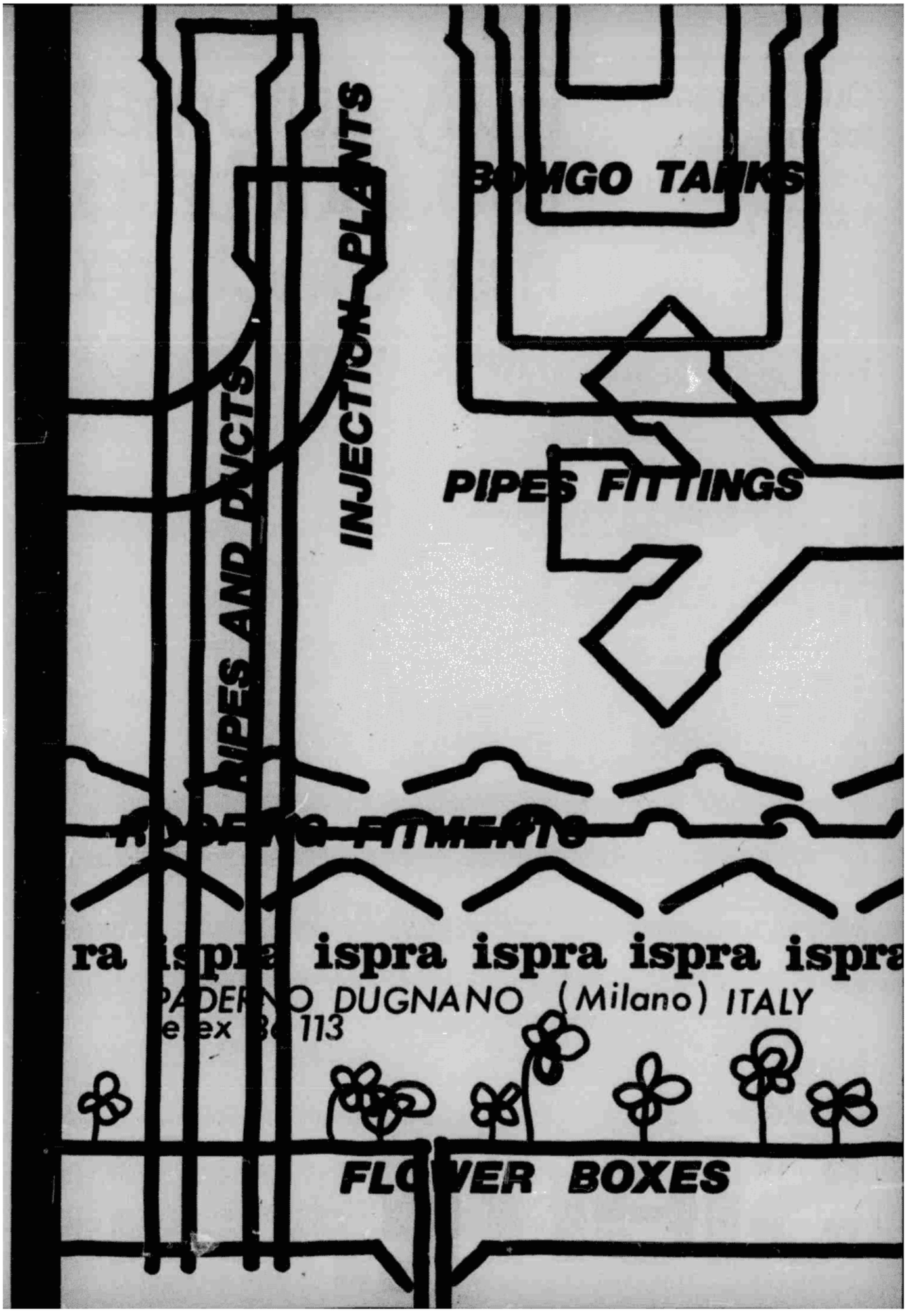
IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

		MARCH 1976	
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	20	$ 469
Republic of South Africa	s.tons	448	199,333
Crocidolite (Blue), South Africa	s.tons	411	195,395
Chrysotile, Crudes, Canada	s.tons	19	11,394
Rhodesia	s.tons	138	181,976
Chrysotile, Spinning Fibers, Canada	s.tons	222	206,083
Chrysotile, Other, Canada	s.tons	52,524	10,606,670
Germany, West	s.tons	285	78,876
Mexico	s.tons	2	433
South Africa	s.tons	140	65,118
Other Crudes & Fibers, Canada	s.tons	1,089	181,175
South Africa	s.tons	88	42,080
USSR	s.tons	331	79,153
		55,717	$11,848,155
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	700,066	$ 907,639
A-C pipes, tubes & fittings	Lb	461,570	46,984
Other asbestos-cement articles	Lb	858,726	162,359
Other asbestos articles		..	523,153
			$ 1,640,135

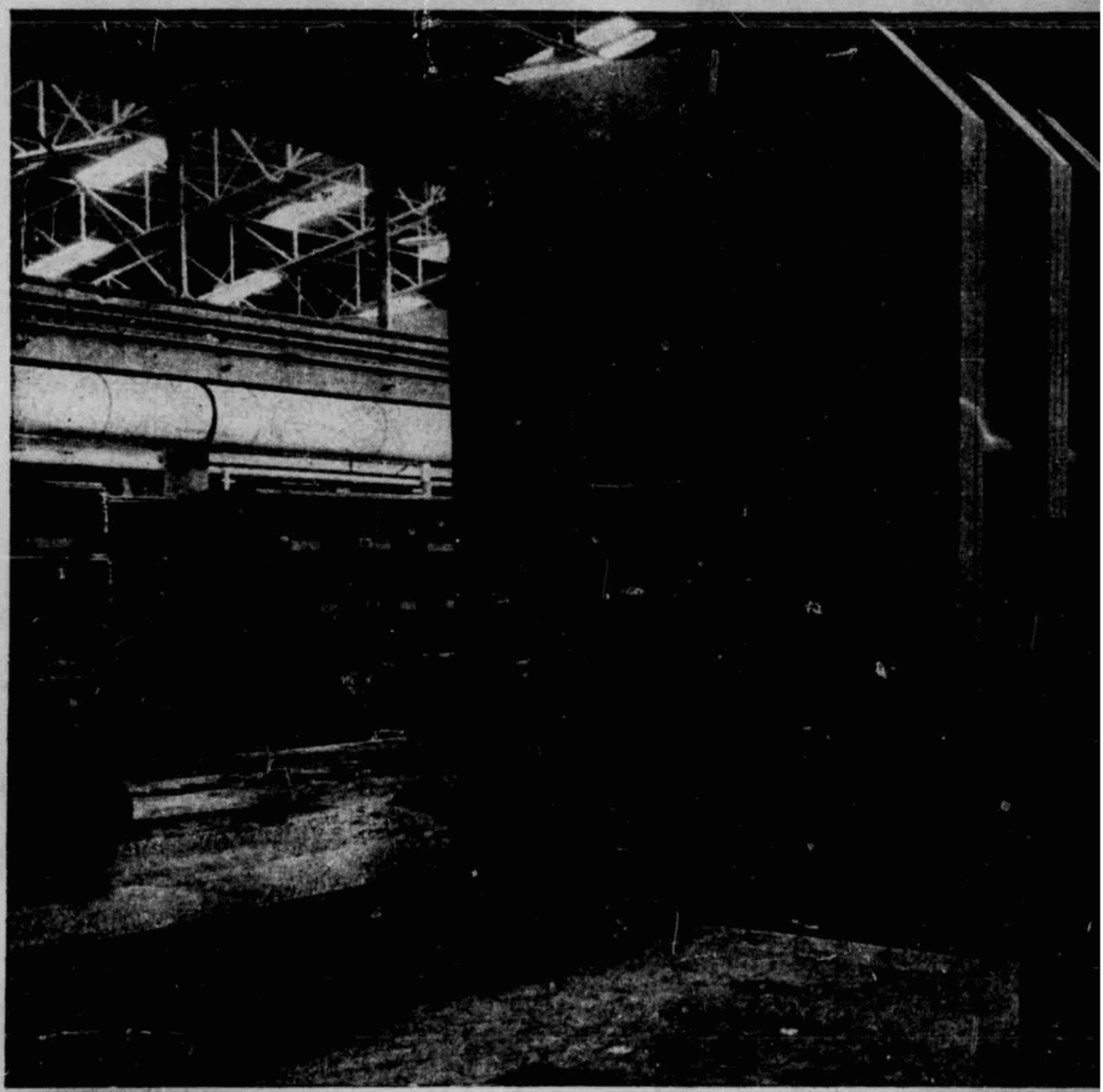
		JANUARY-MARCH 1976	
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	20	$ 469
South Africa	s.tons	1,147	501,795
Crocidolite (Blue), South Africa	s.tons	3,111	1,509,110
Chrysotile, Crudes, Canada	s.tons	207	95,007
Rhodesia	s.tons	516	540,988
Chrysotile, Spinning Fibers, Canada	s.tons	1,117	842,446
Chrysotile, Other, Canada	s.tons	141,483	28,244,825
Germany, West	s.tons	285	78,876
Mexico	s.tons	7	1,662
South Africa	s.tons	330	177,044
Other Crudes & Fibers, Canada	s.tons	2,852	469,527
Germany, West	s.tons	823	179,840
South Africa	s.tons	357	138,695
USSR	s.tons	2,166	398,232
		154,421	$33,178,516
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	1,825,909	$ 2,456,996
A-C pipes, tubes & fittings	Lb	1,399,731	147,884
Other asbestos-cement articles	Lb	3,513,735	587,848
Other asbestos articles		..	1,476,571
			$ 4,669,299

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INJECTION PLANTS
PIPES AND DUCTS
PIPES FITTINGS
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Our Program
for the
Asbestos-Cement
Industry

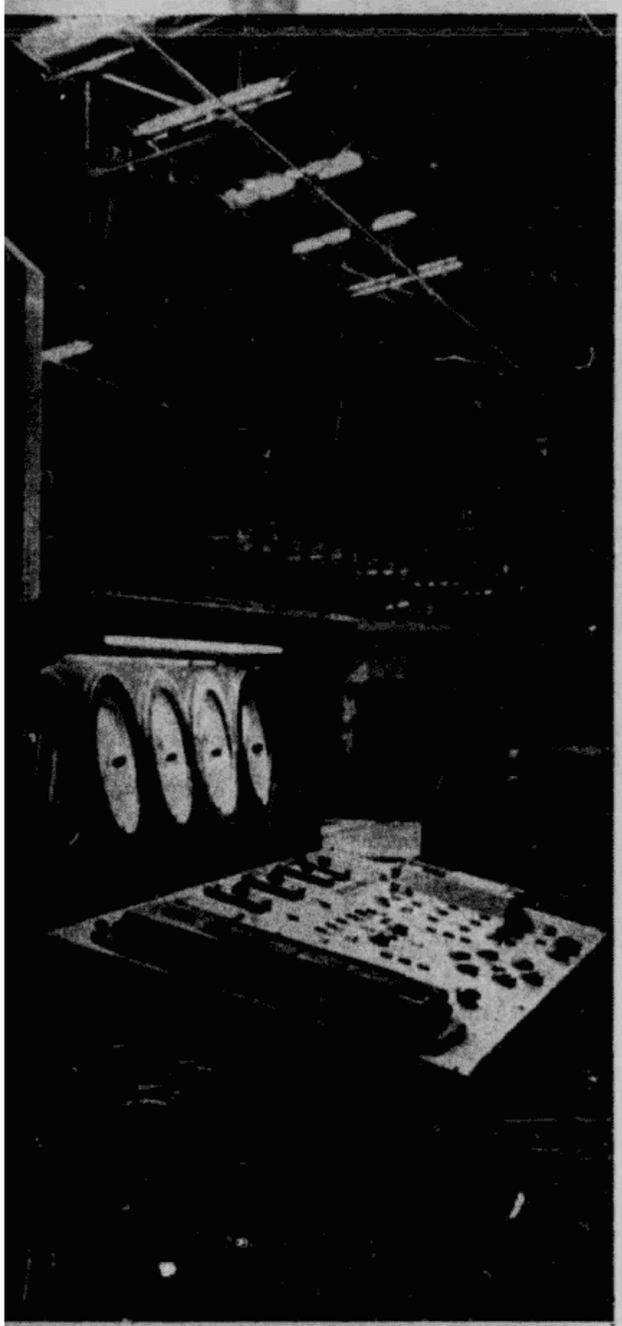
Fully automat
production pl
manufacture



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flat and corrugated asbestos-cement sheets,
asbestos-cement tiles,
compound boards for prefabricated houses,
window sills,
stairs and other asbestos-cement products,
hydraulic presses for asbestos-cement sheets hydraulic punching presses for the manufacture of small size shingles out of asbestos-cement hydraulic pipe testing presses;
fully automatic pressing lines for the production of high-compressed asbestos-cement sheets,
fully automatic pressing lines for laminating of flat asbestos-cement sheets

12 000 tons press for the production of asbestos-cement sheets size of finished sheets: 1600 x 4000 mm

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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

MARCH 1976

UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	2,376	$ 590,394
Waste and refuse	s.tons	2,401	540,325
		4,777	$ 1,130,719
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	3,592,236	$ 539,976
Other a-c fiber-cement articles	Lb	2,019,399	498,093
Gaskets	Lb	82,236	160,106
Packing	Lb	397,437	1,000,119
Heat or sound insulation		..	380,375
Textiles & yarns	Lb	1,690,979	843,281
Protective clothing		..	110,236
Mfrs. other than friction materials		..	890,358
Clutch facings & linings for auto. use	No	49,065	121,043
Other clutch facings & linings	No	3,470	9,412
Brake linings for automotive use	Lb	965,753	802,851
Other brake linings	Lb	140,681	180,414
			$ 5,536,264

JANUARY-MARCH 1976

UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	5,283	$ 1,541,744
Waste and refuse	s.tons	5,860	1,473,736
		11,143	$ 3,015,480
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	7,679,664	$ 1,228,779
Other a-c fiber-cement articles	Lb	4,824,373	1,022,488
Gaskets	Lb	211,428	425,215
Packing	Lb	1,090,902	2,266,569
Heat or sound insulation		..	848,022
Textiles & yarns	Lb	3,231,391	1,620,387
Protective clothing		..	252,294
Mfrs. other than friction materials		..	2,609,440
Clutch facings & linings for auto. use	No	189,436	326,232
Other clutch facings & linings	No	85,132	43,927
Brake linings for automotive use	Lb	2,624,554	2,199,257
Other brake linings	Lb	524,835	566,532
			$13,409,142

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 28 of 54
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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

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

— Production of special sheets up to 9 mt length.

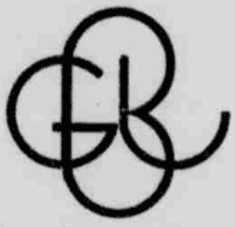
— Auxiliary machines for special sheet profiles.

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

— Special plants for preparation of wet and dry Asbestos.

— Machines for finishing pipes.

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



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BAZZI

EXPORTS FROM CANADA

From: Statistics Canada

MARCH 1976
Short Tons

UNMANUFACTURED ASBESTOS:	CRUDE	MILLED GP 3	MILLED GP 4&5	SHORT GP 6-9
Western Europe	..	880	31,168	20,168
Eastern Europe	..	154	226	302
Middle East	..	25	992	1,030
Africa	..	..	400	1,299
Asia	..	54	7,206	9,484
Oceania	..	..	3,231	854
So. & Cen. America & Antilles	..	166	6,069	1,558
United States	..	560	11,041	35,005
	..	1,839	60,333	69,700

The total amount of unmanufactured asbestos exported in *March 1976* was 131,872 short tons, valued at $38,382,000.

MANUFACTURED ASBESTOS PRODUCTS: PRODUCTS:	
Asbestos cloth, dryer felts & sheets	$ 188,000
Asbestos brake linings & facings	176,000
Asbestos-Cement building materials	447,000
Other basic asbestos products	122,000
	$ 933,000

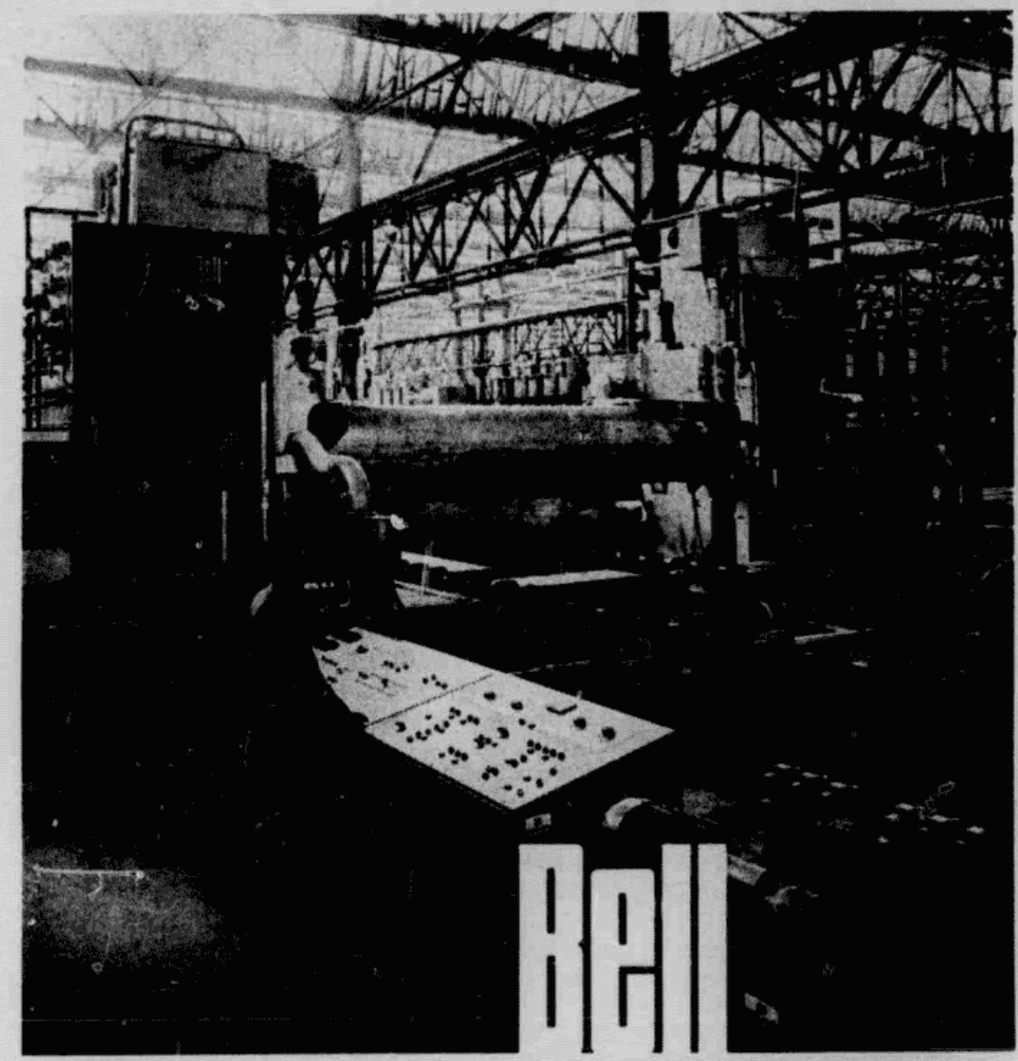
JANUARY-MARCH 1976

UNMANUFACTURED ASBESTOS:	CRUDE	MILLED GP 3	MILLED GP 4&5	SHORTS GP 6-9
Western Europe	..	2,656	70,979	44,032
Eastern Europe	..	394	4,967	582
Middle East	..	51	4,116	1,587
Africa	..	..	1,991	1,979
Asia	..	251	21,144	33,676
Oceania	..	..	10,804	1,788
So. & Cen. America & Antilles	..	583	19,332	9,118
United States	20	1,582	34,703	102,163
	20	5,517	168,036	194,925

The total amount of unmanufactured asbestos exported in *January-March 1976* was 368,498 short tons, valued at $106,754,000.

MANUFACTURED ASBESTOS PRODUCTS:	
Asbestos cloth, dryer felts & sheets	$ 523,000
Asbestos brake linings & facings	409,000
Asbestos-Cement building materials	1,659,000
Other basic asbestos products	515,000
	$3,106,000

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 30 of 54
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▲ Pipe lathe
Nominal diameter: 300—2000 mm
Pipe length max. 5000 mm

Bell

Bell Engineering Works Ltd.
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Switzerland

Manufacturer of Asbestos Cement Machines and Asbestos Board Machines

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Slurry preparation equipment

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Stacking and stripping plants
Corrugators

Pipe machines for high pressure pipes
Pipe and socket lathes
Cutting-off lathes
Presses for water pressure test

Auxiliary Equipment
Waterring vacuum pumps

Experience for decades are guarantee of well-devised and reliably working machines

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THE MINING SCENE

REPORT FROM WOODSREEF

For the six-month period ending April 30, 1976, Woodsreef Mines Ltd. reported a net operating profit of A$750,000 compared with a $2.3-million loss for the same period a year earlier. Sales revenue more than doubled to $8.8-million and 30,821 metric tons of asbestos fiber were produced compared with 19,021 tons during the half-year to the end of April 1975. Mining operations at Barraba, New South Wales, Australia, were confined to the new North Pit, whereas for the same period in 1975 only 20% of the ore fed to the mill was from this area. . . . Active field exploration was recommenced April 5, 1976, on the properties near Baryulgil, N.S.W., of Yulgilbar Exploration Ltd., a wholly-owned subsidiary of Woodsreef. A compilation of data from previous exploration programs outlined an area of Chrysotile fiber development that has a strike length of approximately 1,300 meters and an average width of about 70 meters. Drilling is continuing and assay results should be available shortly.

VAG BURNS MORTGAGE

Vermont Asbestos Group Inc. celebrated its first anniversary by burning its mortgage at a stockholders meeting held in May 1976. The worker-owners announced that all loans needed to take over the operation had been paid off and the stock is now worth $800 per share. The 44-year-old asbestos mine, located at Lowell, Vermont, was purchased about a year ago from GAF Corporation for just $400, although more than $2-million in loans was necessary to complete the transaction. VAG now is in the process of installing $1-million worth of filtering and vacuuming equipment to meet Federal environmental standards. . . . The miners annually produce some 40,000 tons of finished asbestos fiber and, interesting enough, GAF is one of their biggest customers. Recent tests conducted by the owners show at least a 22-year life for the mine.

USGS DEDICATES CENTER

Ceremonies marking the formal dedication of a new U.S. Geological Survey Center at Rolla, Missouri, were held May 19, 1976. The new facility is housing about 110 field personnel plus 340 people from the Survey's Administrative, Computer Center, Conservation, Topographic and Water Resources Divisions. Also, the General Services Administration maintains a small force at the Center and a Health Unit offers emergency medical treatment and routine health services. . . . Established by an Act of Congress on March 3, 1879, USGS maintains headquarters at Reston, Virginia, and serves as the earth science arm of the U.S. Department of the Interior. It has offices and other facilities in each of the 50 U.S. States and major field centers at Denver, Colorado, and Menlo Park, California.

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 32 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/32

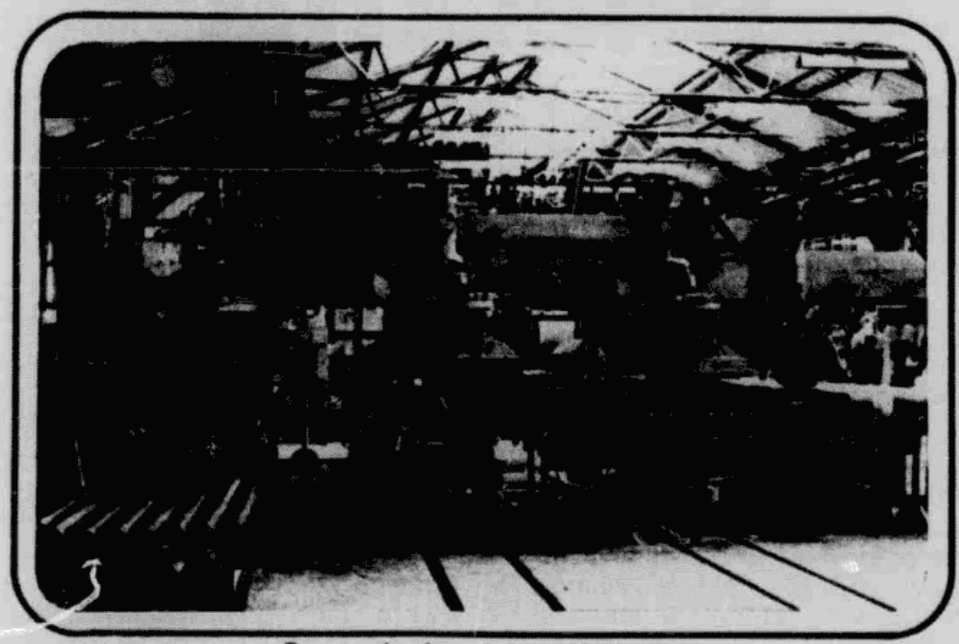
from feasibility study to successful operation...

Unique service in Asbestos Cement Plants.

HYDERABAD ASBESTOS, India's largest manufacturers of Asbestos Cement Products with over 30 years of experience, offer a comprehensive package of turn-Key service - individual plants and Know-how. To set up new A.C. sheets and pressure pipes manufacturing plants or expand the existing ones.

The turn-key service consists of feasibility studies, project engineering, manufacture, supply, erection and commissioning of automatic and semi-automitic plants, personnel training and prodution know-how. Robustly built, easy to operate and maintain, HYDERABAD ASBESTOS A.C. plants have been set up in many parts of the world.

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HYDERABAD ASBESTOS
CEMENT PRODUCTS LIMITED
Sanatnagar, Hyderabad-500 018 (India)



Pneumatic sheet corrugating unit

ANNUAL REPORTS—1975

CAPE INDUSTRIES LTD.

In its Report and Accounts for the year 1975, Cape Industries Ltd. reported that for the first time, turnover exceeded £100-million: £107-million in 1975 compared with £81.3-million in 1974. Profit before taxation was £10.2-million, more than double that of the previous year. After taxation and extraordinary items, £5.6-million remained to be added to the balance of the profit and loss account available for distribution. All Divisions of the Group shared in the achievement although the principal contributor to the increase in both sales and profit was the Mining Division. It was noted that trading conditions have not been easy, the building industry is in recession, the automotive industry has been beset by problems and there is uncertainty and economic instability in many countries of the world where Cape fibers and products are sold. In spite of these problems the company has been able to maintain and increase its business.

In the United Kingdom, the market for external cladding materials remained greatly depressed but the level of demand was high for fire-resisting boards and panels for land and marine use. The production of Cape's mineral wool insulating material was fully extended, not unexpectedly in view of the high cost of fuel. The Contracting Division continued to prosper, enlarged as it was during the early part of the year by the acquisition from Turner & Newall Ltd. of its insulation contracting business.

Associated Companies—The new factory of Don Eastern Sendirian Berhad, at Petaling Jaya, Malaysia, opened in 1975 and Svenska Bromsbandsfabriken AB is now producing at its new factory in the northern part of Sweden.

Building & Insulation Division—Trading profits rose 31% and improved results were realized from the sale of fire protection materials, insulation products and contracting. Additional capacity came on stream in 1975 at the Stirling Factory of Cape Insulation Ltd. and a further investment costing about £1-million has been announced. Because of continuing growth, Cape Insulation (Ireland) Ltd. will, this year, move to new and larger premises on the outskirts of Dublin.

Automotive & Engineering Division—Trading profits rose 20% and overall margin improved. All companies reported increases in profit except Don International Ltd. (formerly Small and Parkes Ltd.) where weakness in original equipment markets and the cost of reorganization resulted in profits somewhat below those of 1974.

Mining Division—Cape Asbestos South Africa (Pty) Ltd. reported a strong demand for Blue and Amosite asbestos, together with higher prices and improved control of costs at the mines. This resulted in a sharp recovery in profits and the restoration of margins more commensurate with the risks of mining. The Amosite Mine at Penge operated satisfactorily during the year and steps were taken to increase mechanization underground and generally to improve productivity. The closure

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 34 of 54
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Amosite from Cape

Natural length, natural strength, rapid filtration and resilience.
Characteristics of Amosite fibres that improve the handling of wet products and controlled curing in the whole range of asbestos cement and make them a natural for reinforced plastics and insulation materials.
Cape are the world's largest producers of amphibole fibres—and we've the technical expertise and product support to match.

Cape's Research Makes it Work

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Cape Asbestos Fibres Ltd.,
Iver Lane, Cowley,
Uxbridge, Middlesex.
Telex: 23471/UXB
Tel: Uxbridge (89) 37111

N. American Asbestos Corp.,
Suite 2950,
150 N. Wacker Drive,
Chicago, Illinois 60606
Tel: (312) 726 8515

of the Kromellenboog Mine was commenced early in 1975 but an experiment in selective mining, coupled with the increased price of Amosite, enabled the operation to produce profitably on a reduced scale throughout the year. Production of Blue asbestos at the Koegas Mine continued largely as planned although somewhat restricted by a shortage of labor in the last quarter. The Pomfret Mine had a good year with output establishing a new record. . . . *Exploration*—A drilling program to indicate further reserves in Penge area has been started and initial results have been favorable. In addition to the exploration program in regions adjacent to Cape's present mines, an option to purchase an existing minor Blue producer in the Postmasburg area was secured and a substantial investigation is being undertaken to establish the potential of the lease areas held by the present producer.

Fiber Sales—The volume of sales by Cape Asbestos Fibres Ltd. was strong, partly because of the shortage of Chrysotile fiber from Quebec, and all of the output from Cape's mines was sold and stocks cleared. Sales prospects for 1976 are good. Demand for Blue asbestos remains strong and the entire output from the mines will be sold. Some grades of Amosite may be more difficult to place. North American Asbestos Corporation had a good year, limited only by the availability of fiber. Prospects are excellent as the economy of the United States recovers from its recent setback.

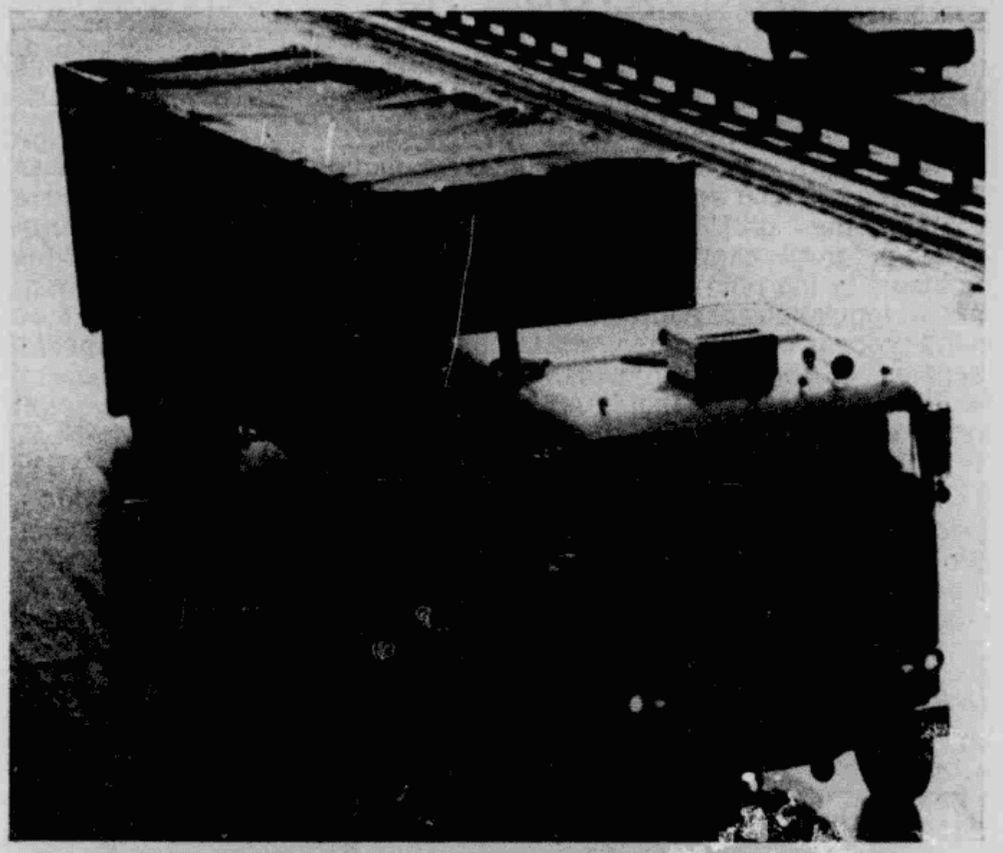
Capital Expenditures will be heavy in 1976—£4.8-million in the U.K. and £6.3-million in the Republic of South Africa, primarily at the mills where a high proportion is earmarked for a continuing program of environmental improvement and for the raising of standards of accommodation and amenities for the workers.

Predictions—In his Statement, Chairman R.H. Dent noted: "It is inevitable in these troubled times that any predictions must be heavily qualified but, in spite of political and financial anxieties in many countries, the demand for asbestos fiber of all kinds remains strong. It is used in building construction, both as a constituent of cladding material, floor coverings and pressure pipes, and for fire protection. It is also included in some forms of thermal insulation, in brake linings and in many vital engineering components. These uses are all basic to countries whether they are fully industrialized or emerging states. There is no other low cost, long lasting, heat-resisting, fibrous material of such strength or versatility, nor do I see any likelihood of one being fabricated. I therefore expect that our mines will be fully occupied during 1976 with results comparable to those of 1975."

ASARCO INC.

The severe worldwide recession and inflation had a major impact on the 1975 earnings of Asarco Inc. The year was the worst the copper industry has experienced since the Great Depression of the 1930's. It was also a difficult year for lead and zinc and other non-ferrous metals and the asbestos mines in Quebec suffered a seven-month-long strike. All of these factors reduced 1975 net earnings to $25.4-million, or 95¢

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 36 of 54
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Stop 'em in their tracks.

Heavy duty brake linings must deliver on demand, usually hundreds of times a day. There's no room for failure.

Lake Asbestos long fibres give the required ruggedness to brake linings used in trucks, buses, railway and subway cars. The unique characteristics of these fibres also help assure the proper coefficient of friction. They also provide the necessary resistance to heat, wear and weathering.

Keep yourself and your customers on the safe side. For more information, contact Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or get in touch with one of our representatives near you.

LAKE ASBESTOS

A subsidiary of **ASARCO**

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ACL Doc 12687 · Page 37 of 54
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per share, down from a restated $130.4-million, or $4.88 per share, in 1974. Sales of products and services for the year 1975 were $1.005-million compared with $1.344-million in 1974.

While 1975 was a year of reduced production and earnings, it was also a year of solid achievement for Asarco. Capital expenditures were at an all-time high ($167.5-million). The major expansion and modernization program, begun in 1973, made excellent progress. Many of the problems of the past five years associated with meeting new environmental regulations at Asarco's smelters were resolved or appeared to be in the process of being resolved. Capital expenditures for environmental facilities, 1966 to date, exceed $112-million, and construction of facilities proposed will require an estimated additional $183-million over the next few years.

Lake Asbestos of Quebec Ltd.—The afore-mentioned strike caused a sharp drop in production at LAQ, a wholly-owned subsidiary of Asarco. Since the end of the strike, however, production and sales have been good and the outlook for 1976 is favorable, although new Canadian laws regulating wages, prices and profits present uncertainties. LAQ produced 90,300 tons of asbestos in 1975 compared with 232,400 tons in 1974 and 171,600 tons in 1973. The quantity of fiber sold amounted to 97,900 tons in 1975 against 230,300 tons in 1974 and 184,700 tons in 1973. An Asarco-patented process is employed at the Black Lake Division based upon magnetic separation for the preconcentration of asbestos ore fed to the mill. This has produced such significant economies that a similar process has also been put in operation at the National Mines Division.

Cement Asbestos Products Company—Capco, wholly owned by Asarco, had a poor year due to the strike-caused shortage of asbestos and to reduced demand for asbestos-cement and plastic pipe.

H. K. PORTER COMPANY, INC.

In 1975, H. K. Porter Company, Inc., had its second best operating year, exceeded only by 1974. Net sales in 1975 totaled $267-million compared with $335-million in 1974. Net income was $9.3-million, or $7.31 per share, against $13-million, or $10.03 per share, the prior year. Capital expenditures for 1975 came to $9-million, of which $2-million was spent at the Charlotte Works of Southern Asbestos Company for new twisters and spinners that are designed to minimize airborne dust. Also during the year the Richmond and Amco Works of the Thermoid Division were consolidated at Huntington, Indiana, and the Chanute Works was expanded 30%.

Southern Asbestos Company—Asbestos textiles are produced at plants in Charlotte, North Carolina, and Bennettsville, South Carolina. The factory warehouse is located in Vernon, California. Historically, the asbestos textile industry lags behind the general economy and although Southern had a relatively good year in 1975, it is expected the early part of 1976 will be somewhat behind the previous year. It is anticipated, however, that the year as a whole will be one of continued growth.

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 38 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/38

ASBESTOS STOCK QUOTATIONS

June 15, 1976

Abitibi Asbestos	C$.90
Advocate Mines	C$2.10
Armstrong Cork	28
Armst. Cork (pfd 3.75)	49
Asarco	16 ⅝
Asbestos Corporation	C$29.75
Bendix	42 ⅞
Bendix (pfd 3)	87
Carlisle	14 ⅝
Cassiar Asbestos	C$6.125
Certain-teed Products	18 ⅝
Charter Conso.	pence 161
Colt Industries	51
Colt Ind. (pfd 1.60)	27 ⅛
Colt Ind. (pfd 4.25)	72¾
Conwest	C$3.45
Flintkote	17 ⅛
F-kote (pfd-A 4.50)	56
F-kote (pfd-B 2.25)	28¼
GAF Corporation	14½
GAF (pfd 1.20)	20¾
Gulf & Western	25
G&W (warrants)	6½
G&W (pfd 2.50)	43½
G&W (pfd 3,87)	95¼
G&W (pfd 5.75)	70
IC Industries	19¼
IC Ind (pfd 6)	85
IC Ind (pfd 3.50)	37 ⅝
Jim Walter Corporation	37 ⅞
Jim Walter (pfd 1)	10¾
Jim Walter (pfd 1.60)	40 ⅞
Johns-Manville	29¼
Kennecott Copper	33⅛
Maremoni	16 ⅜
McAdam Mining	C$.385
National Gypsum	14 ⅝
Pathfinder	C$.37
Raybestos-Manhattan	32
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BIRTHDAY GREETINGS to . . .

John W. Hawkins, Director of Asbestos Textile Research, Raybestos Manhatten Industrial Products Co., N. Charleston, S.C., August 15.

M. S. Moser, President, Durabla Manufacturing Company, Wayne, Pennsylvania, August 15.

Harry H. Robinson, Chairman & Managing Director, Woodsreef Mines Ltd., Barraba, New South Wales, Australia, August 16.

John F. Sullivan, Vice President-Construction, A & M Insulation Company, Chicago, Illinois, August 17.

Joan Holtze, Corporate Secretary, North American Asbestos Corporation, Chicago, Illinois, August 18.

Daniel L. Juhl, Vice President of Manufacturing, RM Friction Materials Company, Trumbull, Connecticut, August 18.

Albert H. Fay, Vice President-Research & Marketing, Gold Bond Building Products Div., National Gypsum Co., Buffalo, N. Y., August 19.

James H. Plummer, Jr., Vice President, Pars Manufacturing Company, Ambler, Pennsylvania, August 20.

Dale J. Delmege, Director-PSI Group, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, August 26.

Marc-A. Gosselin, Director of Public Relations, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, August 26.

M. A. Bell, Finance Director, Turner & Newall Ltd., Manchester, Lancashire, England, August 29.

Michael J. Scanlan, Vice President & Treasurer, Amatex Corporation, Norristown, Pennsylvania, September 1.

Herman Devriese, Product Research & Development Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, September 2.

R. B. Gresham, Manager, Jeffrey Mine, & Vice President, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, September 2.

J. L. Fenton, a Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 7.

J. L. Mitchell, Textile Consultant, Charlotte, No. Carolina, September 7.

Walter H. Smith, Sales and Technical Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, September 7.

William T. Teague, Sales Representative, Carey-Canadian Mines Ltd., Atlanta, Georgia, September 8.

A. H. Teare, Managing Director, Irish Asbestos Companies, Turner & Newall Ltd., Dublin, Ireland, September 8.

Robert H. Cuje, Senior Vice President-Corporate Marketing and Growth Planning, Johns-Manville, Denver, Colorado, September 9.

Frank H. Zimmerman, Corporate Director-Safety & Environmental Health, National Gypsum Co., Buffalo, New York, September 9.

R. W. Little, Assistant Manager of Engineering, Asbestos Corporation Ltd., Thetford Mines, Quebec, September 10.

Bruce Klomfas, Plant Manager, Cement Asbestos Products Company, Van Buren, Arkansas, September 11.

H. J. White, Vice President-Administrative Services, Johns-Manville, Denver, Colorado, September 11.

G. Earl Parker, Vice President, Corporate Counsel & Assistant Secretary, Johns-Manville, Denver, Colorado, September 12.

W. P. Howard, Group Public Relations Adviser, Turner & Newall Ltd., Manchester, England, September 13.

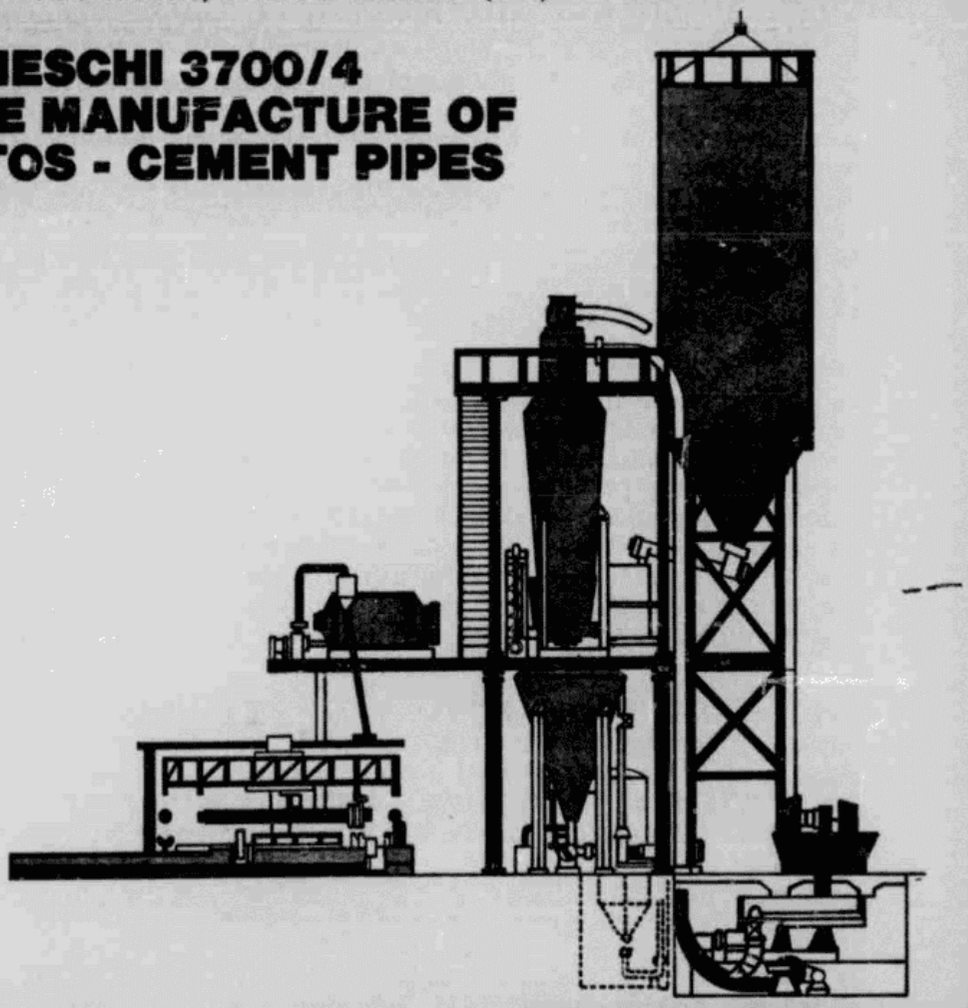
Fred L. Pundsack, Senior Vice President-Research & Development, Johns-Manville, Denver, Colorado, September 14.

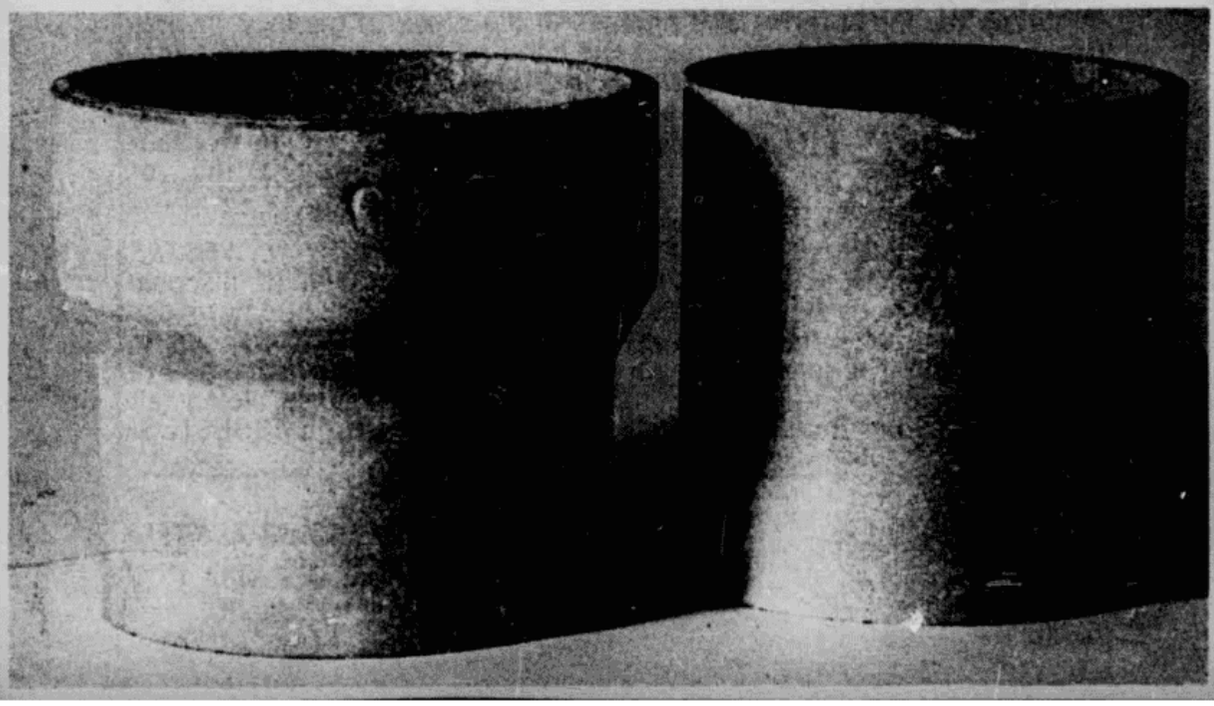
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BOOKS OF INTEREST

WASTE PRODUCTION AND DISPOSAL IN MINING, MILLING AND METALLURGICAL INDUSTRIES—Authored by R. E. Williams, University of Idaho; details the impact of the Federal Water Pollution Control Act Amendments of 1972; presents the point source effluent limitation guidelines of the U.S. Environmental Protection Agency; discusses costs and benefits of available waste treatment technologies; covers the problems of acid mine drainage, test procedures for the analysis of pollutants and treatment of plant wastes; includes a summary of State surface mining and mined land reclamation laws prepared by the Division of Environment, U.S. Bureau of Mines. [512 pages, order from Miller Freeman Publications, Inc., or through ASBESTOS, $35.00]

INDUSTRIAL POLLUTION—Edited by N. I. Sax; a combined effort of 23 authorities on environmental toxicants; identifies contaminants and their properties, including receptor sensitivity; describes the toxicology of environmental pollutants, particularly pesticides; defines sources of various forms of pollution along with possible effects and solutions; discusses the risk of environmental cancer in today's industrialized society; concerning air pollution, the book covers meteorology as the main mechanism of dispersion, upper atmosphere chemistry and its effects, and automobile exhaust and industrial effluents as prime sources. [704 pages, order from Van Nostrand Reinhold Company or through ASBESTOS $35.00]

1976 MINING INTERNATIONAL YEAR BOOK—Edited by Walter R. Skinner; published by The Financial Times; contains particulars of principal and other international companies associated with the mining industry; features a geographical index and sections concerned with suppliers, buyers and professional services, world production and Canadian and Australian mining areas. [682 pages, order from Mr. Skinner or through ASBESTOS; £10.00 per copy in the United Kingdom; U.S. $42.00 to all other countries]

WORLD MINING GLOSSARY OF MINING, PROCESSING & GEOLOGICAL TERMS—Edited by R. J. M. Wyllie & G. O. Argall, Jr.; covers important technical terms and phrases in the areas of geology, hydrogeology, exploration, underground and open-pit mining, minerals beneficiation, hydrometallurgy, smelting and refining; contains an English index with corresponding translations in Swedish, German, French and Spanish; features alphabetized, cross-referenced indices in the five languages. [432 pages, order from Miller Freeman Publications, Inc., or through ASBESTOS, $40.00]

HOW TO DISPOSE OF TOXIC SUBSTANCES & INDUSTRIAL WASTES 1976—Authored by P. W. Powers; details recognized ultimate disposal methods; describes workable solutions including conversion to harmless end products, subsurface storage in ponds or landfills and disposal in the ocean; the five general categories of hazardous wastes covered are toxic chemical, radioactive, flammable, explosive and toxic biological. [500 pages, order from Noyes Data Corporation or through ASBESTOS, $48.00]

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 42 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/42

RECOMMENDED WORK PRACTICES—The Asbestos Information Association/North America has published Recommended Work Practices for the "Fabrication and Use of Asbestos Paper Products," "Shop and Field Fabrication of Asbestos Sheet Products," "Molding and Fabrication of Asbestos Containing Plastic Products," "Fabrication and Use of Asbestos Friction Materials," and "Use and Handling of Asbestos Textile Products." [$1.35 per copy, plus postage; orders may be placed with AIA/NA or through ASBESTOS Magazine.]

ASBESTOS/A REMARKABLE MINERAL FIBER—New reference book on asbestos, by Marion S. Badollet, that presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [Send your order and advance payment to Mr. Badollet, 563 E. Front Street, Apt. 589-B, Plainfield, N. J. 07062—U.S. $20.00 per copy].

CHRYSOTILE ASBESTOS TEST MANUAL—Prepared jointly by the Asbestos Textile Institute and the Quebec Asbestos Mining Association, this 3rd edition provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. Orders may be placed through this Magazine [$18.95 to U.S., Canada & Mexico; $21.95 to all other countries].

THE ASBESTOS FACTBOOK—Written in layman's language, this handy booklet offers useful information about the origin, locations and uses of asbestos, the chemical compositions of various types of the mineral, testing methods and grades. Your copy is available from this Magazine for just $1.00 [28 pages; 5" x 7½"; paper-bound].

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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 1,429,950—Improved roofing shingles are fabricated from an aqueous mixture of 70-99% by weight of the total fibers of glass fibers and 1-30% of Chrysotile asbestos fibers; a binder is applied to the mat formed from the mixture of fibers, the binder and mat heated and the bonded mat divided into shingles; assigned to Johns-Manville Corporation, March 31, 1976; 9 pages.

British 1,431,797—A brake element for use in a disc brake includes a body part for frictionally engaging the disc and a surface layer comprising a major proportion of asbestos and minor proportions of a phenolic resin, rubber, a vulcanization accelerator, metal oxides, graphite or a metal sulfide as a solid lubricant and ground barite or mica; K. R. Beyrer; April 14, 1976; 3 pages.

British 1,431,891&2—To protect electric arc furnace electrodes against corrosion, there are fused thereto sheets formed from a mixture of silicon carbide, boric acid, Amosite asbestos and chopped rayon fibers; J. Schiffarth, C. G. Corkin & K. J. Fletcher; assigned to Foseco International Ltd., April 14, 1976; 5 pages and 4 pages, respectively.

Canadian 985,653—Surfacing of vinyl-asbestos tiles with clear, durable wear layers; a fluid polymer is applied to hot vinyl-asbestos sheets and the coating is cured by exposure to ultraviolet radiation of optimum intensity; P. S. Bettoli; assigned to GAF Corporation, March 16, 1976; 40 pages.

Canadian 987,385—A cover layer for fuel cells comprises defiberized Anthophyllite asbestos, bentonite and a hydrophilic butadiene-styrene-acrylonitrile copolymer latex; the bentonite causes the layer to swell, thereby achieving gas tightness; W. Naschwitz & E. Knust; assigned to Siemens A.G., April 13, 1976; 13 pages.

U.S. 3,944,702—Flame-resistant thermal or electrical insulation articles are formed from asbestos fibers bonded at their points of contact within a trialkoxysilane matrix with colloidal silica applied from an acidified water-alcohol vehicle; H. A. Clark; assigned to Dow Corning Corporation, March 16, 1976; 6 pages.

U.S. 3,945,840—Fire-resistant structural shapes are molded from a mixture of (1) 100 parts by weight of diatomite, expanded perlite or the like, (2) 10-200 parts of asbestos, glass fibers or the like, and as binder (3) a small amount of either a bitumen, crystalline aluminum oxide, sulfur, a metal sulfide or vanadium oxide; H. Ueda, N. Suzuki & M. Nagao; assigned to Sekisui Kagaku K.K.K., March 23, 1976; 13 pages.

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 44 of 54
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CALENDAR OF EVENTS

UNIVERSITY OF WISCONSIN—Extension Courses on the Madison Campus: Building Design for Noise Control (*August 4-6*); Fire Safety Design (*August 9-13*); Adhesives in Product Design and Manufacturing (*August 10-11*); Energy Conservation Research and Development (*August 16-17*); Noise Measurement and Control (*August 2-6*); and Product Safety Seminar (*September 8-10*).

FRACTURE MECHANICS—Tenth National Symposium sponsored by Committee E-24, American Society for Testing and Materials; Sheraton Airport Inn, Philadelphia, Pennsylvania, *August 23-25.*

WORLD MINING & METALS TECHNOLOGY—Theme of 1976 Fall Meeting and Exhibit of the Society of Mining Engineers, a constituent Society of the American Institute of Mining, Metallurgical and Petroleum Engineers; Currigan Hall, Denver, Colorado, *September 1-3.*

METAL & NONMETAL MINE RESCUE—Contest sponsored by the U.S. Mining Enforcement and Safety Administration; Salt Palace, Salt Lake City, Utah, September 2-3.

PRACTICAL INTRODUCTION TO MINING GEOSTATISTICS—Course designed for those concerned with exploration, ore valuation and output prediction; Centre de Geostatistique, Fontainebleau, France, *September 6-11.*

WATER & RELATED LAND PROBLEMS—Theme of Joint Meeting of the U.S. Water Resources Council and the Interstate Conference on Water Problems; Buena Vista Hotel, Biloxi, Mississippi, *September 7-10.*

MEXFAIR 76—Mexico's Fourth Annual Major U.S. Trade Show, sponsored by the Mexican Institute for Foreign Trade; Convention Center Hall, San Antonio, Texas, *September 8-12.*

AUTOMATION IN MINING, MINERAL & METAL PROCESSING—Second IFAC Symposium sponsored by the Technical Committee on Applications, International Federation of Automatic Control; Carlton Hotel, Johannesburg, Republic of South Africa, *September 13-17.*

OPERATIONAL MINING GEOSTATISTICS—Course dealing with the application of the theory of Regionalized Variables to mining problems as developed by Prof. G. Matheron; Centre De Geostatistique, Fontainebleau, France, *September 13-18.*

RECENT ADVANCES IN ANALYTICAL METHODS—Symposium sponsored by the International Union of Independent Laboratories; Maastricht, Netherlands, *September 16.*

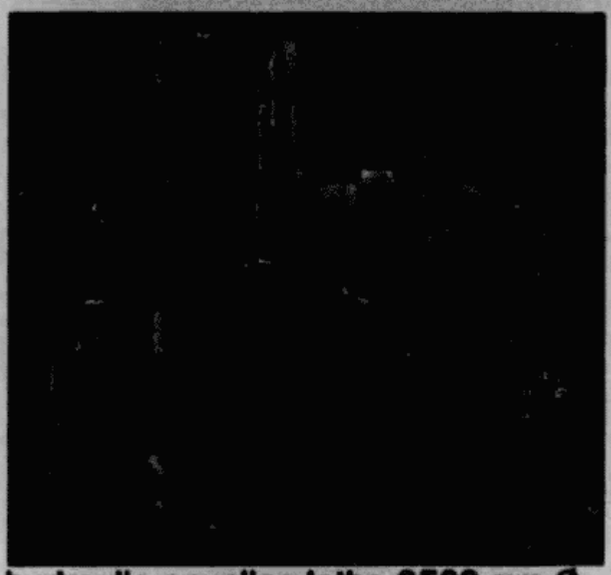
THE MANAGEMENT OF CANADA'S MINERAL RESOURCES—Professional Development Seminar of McGill's Department of Mining and Metallurgical Engineering; McGill University, Montreal, Quebec, *September 20-22.*

Asbestos Magazine, 1976, July 1976
ACL Doc 12687 · Page 46 of 54
Published by AsbestosClaims.Law
asbestosclaims.law/library/12687/46

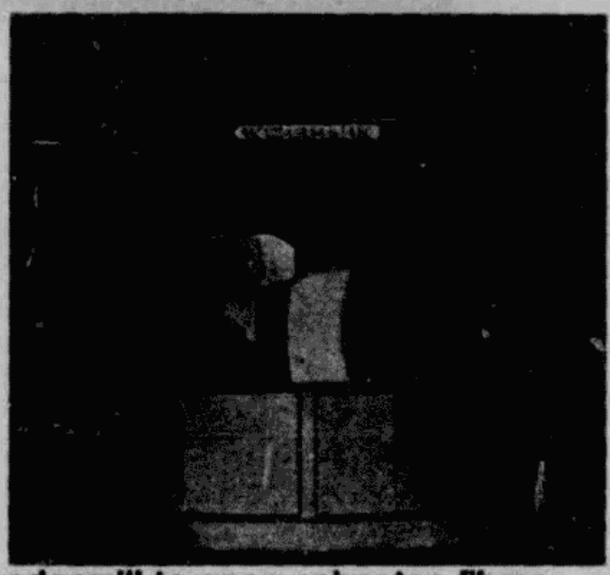
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(June 1926 ASBESTOS)

The recently organized Superbestos Company, of Chicago, Illinois, announced the election of officers as follows: H. S. Mikesell, President; Edwin S. Davis, Secretary and Treasurer; and F. Elizer, General Sales Manager. Many key personnel of the new company were formerly connected with Mikesell Brothers Company which had gone out of business a short time previously.

This issue contained a description and photograph of an asbestos roofing tile designed to improve the appearance and strength of asbestos-cement roofing shingles. The distinctive characteristic of the tiles consisted of a deep, central reinforcing corrugation, giving the tiles the appearance of the roofing tiles so widely used in Mediterranean countries.

A biographical sketch of J. Gillmur Tyson, President and one of the Founders of American Asbestos Company, of Norristown, Pennsylvania, appeared in this issue. Mr. Tyson was a pioneer in the asbestos textile industry of which the Philadelphia area was a focal point at the time.

(July 1926 ASBESTOS)

New Advertiser:
Glasgow Rubber & Asbestos Works (George MacLellan & Co. Ltd.)

A short biography of Andrew Johnson, who died on June 11, 1926, was published in this issue. Mr. Johnson was one of the first successful operators of a Canadian asbestos mine and was a Co-Founder of Johnson's Company of which he was President at the time of his death. The Johnson Asbestos Mine was one of the largest in the Thetford complex.

The Asbestos Shingle, Slate & Sheathing Company, of Ambler, Pennsylvania, announced the purchase of 15 acres of land in St. Louis, Missouri, to be used as the site of a plant for the manufacture of asbestos shingles and other asbestos-cement products. Plans called for the new plant to be in operation by the end of 1927.

The completion of the new plant of Union Asbestos & Rubber Company, at Cicero, Illinois, was reported. Covering an area of 120,000 square feet, it was designed by Chester L. Hill, an innovator and recognized expert in the field of asbestos textile manufacture, and was to operate under his management. This marked the extension of Unarco's activities from supplying special products to railroads to the wider field of servicing industrial plants with high pressure packings and similar power plant products.

The Asbestos Buildings Company, of Ambler, Pennsylvania, reported the sale of a number of knockdown asbestos buildings for use as schools in Florida where a rapidly increasing population was creating a demand for additional school facilities.

OSHA "2 FIBER" LIMITATION—EFFECTIVE JULY 1, 1976

Asbestos Magazine, 1976, July 1976
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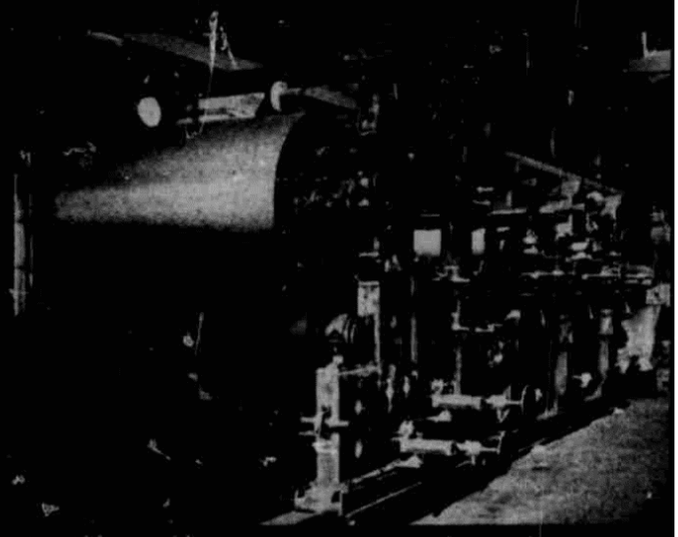
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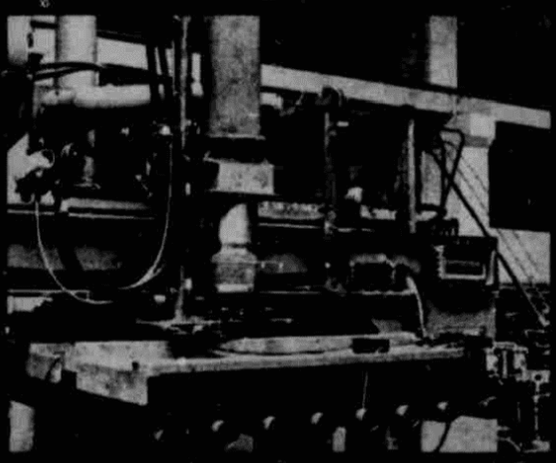
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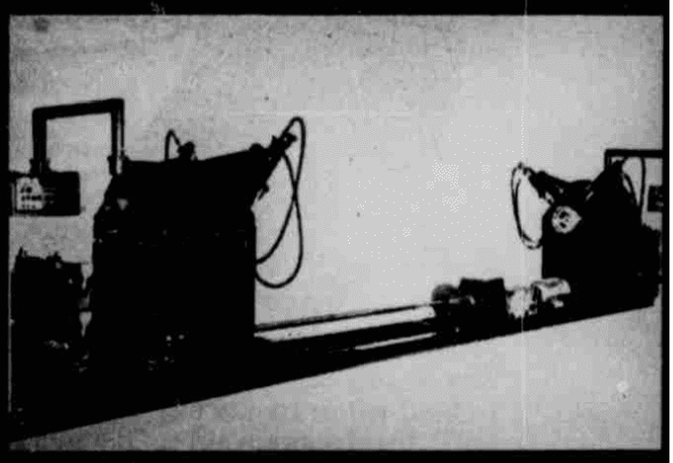
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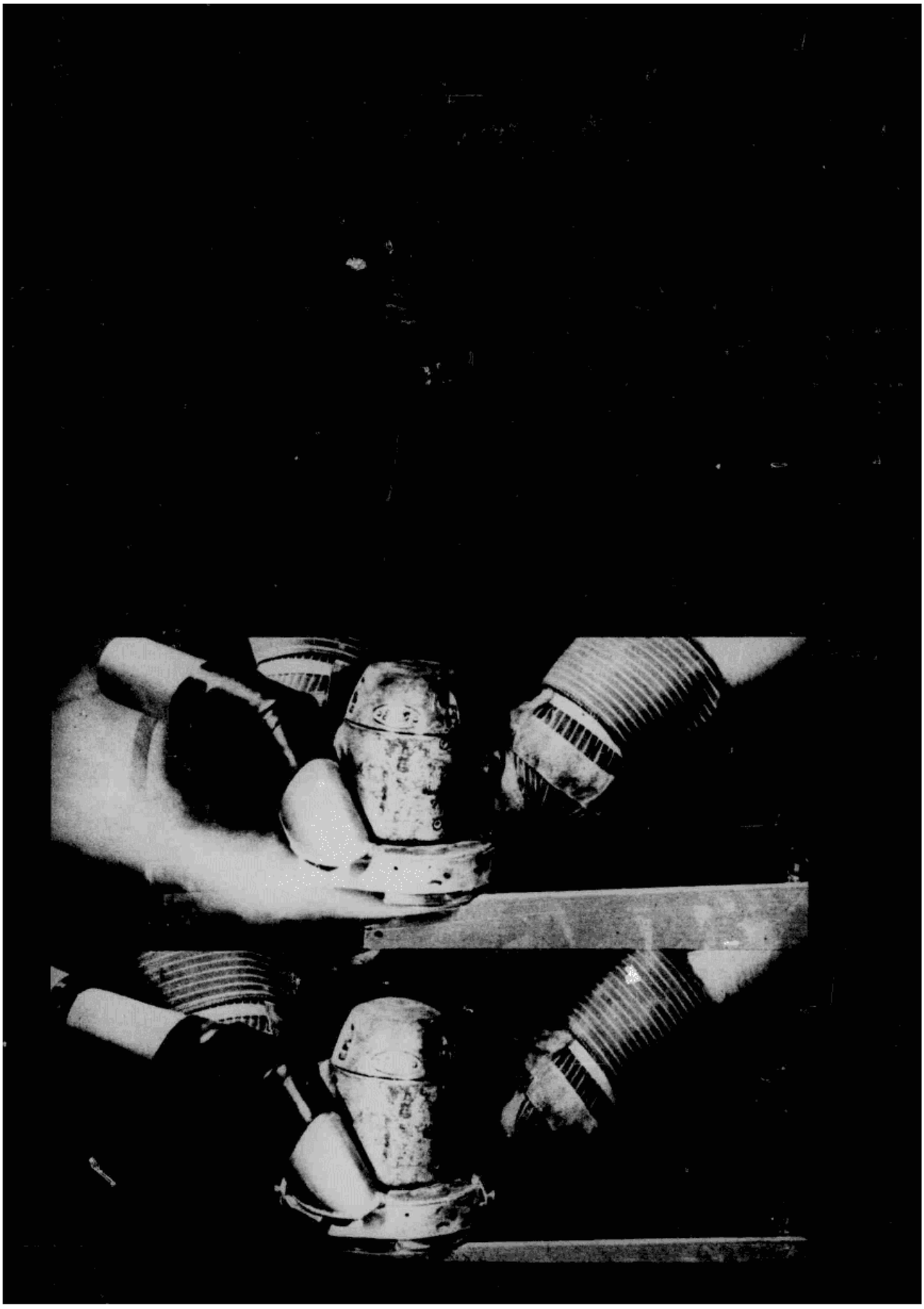
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