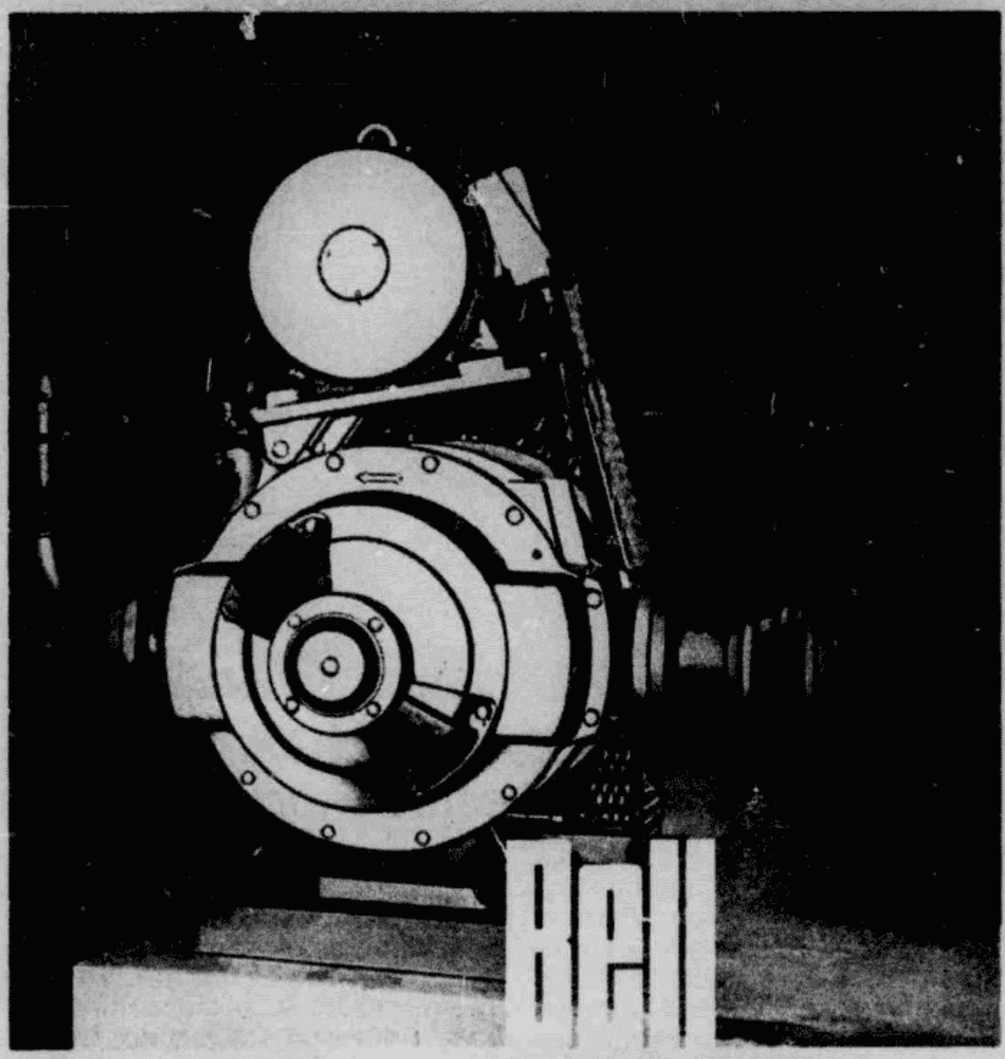


▲ Waterring vacuum pumps
type E 10 without water separator
— cleaning cycle approximate 1 year —
on a 4 m pipe machine

Bell Engineering Works Ltd.
CH — 6010 Kriens / Lucerne
Telex 78 167 bell ch
Switzerland

Manufacturer of Asbestos Cement Machines and Asbestos Board Machines

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Slurry preparation equipment

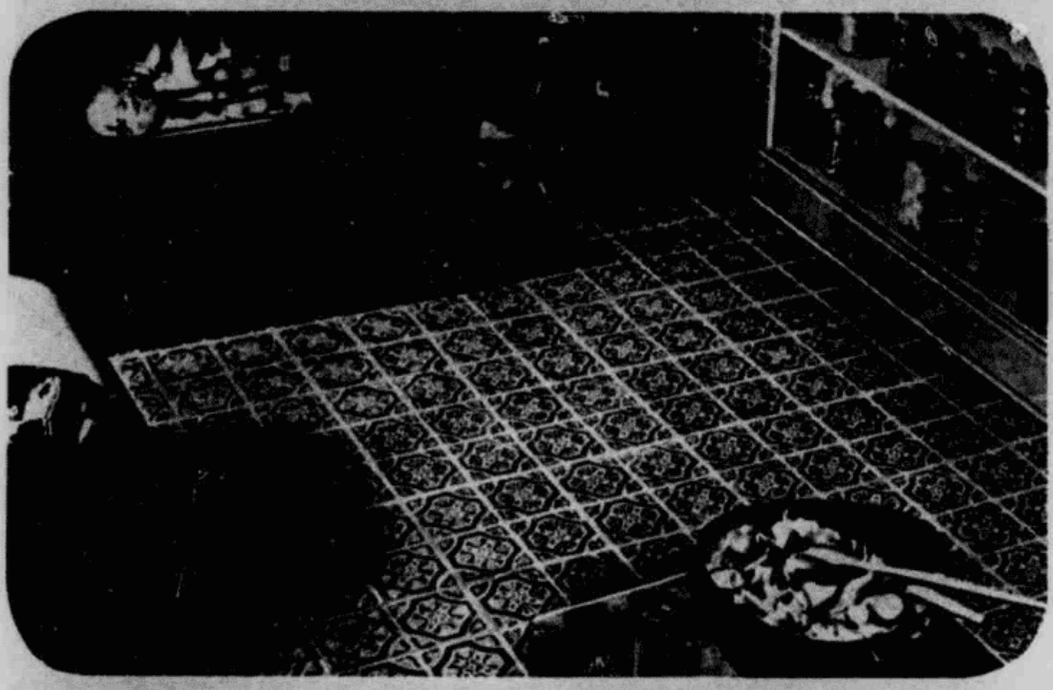
Sheet machines
Stamping machines for cutting slates and sheets
Presses for high density sheets
Stacking and stripping plants
Corrugators

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

Auxiliary Equipment
Waterring vacuum pumps

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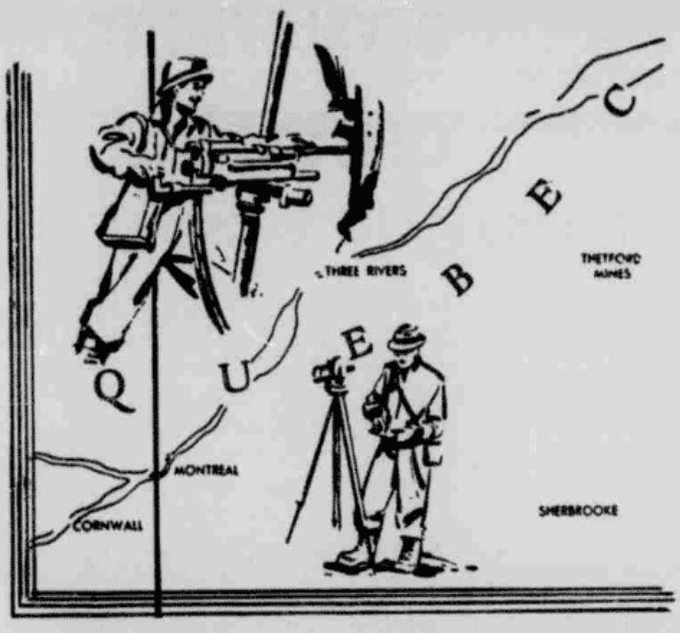
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ASBESTOS

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QAMA—A BRIEF HISTORY

We are grateful to Paul A. Filteau, Executive Vice President of the Quebec Asbestos Mining Association, for permission to print this brief story on the "reason for being" of QAMA. The information was excerpted from the introductory chapter of "Environmental Hygiene in Asbestos Mines" — the Memorandum presented by the Association to the Quebec Committee For The Study of The Health Conditions Of The Asbestos Industry. The Memorandum supports QAMA's conclusion, based on sound medical and scientific findings, that a "five fibers per cubic centimeter of air" standard is an acceptable and safe level of exposure to asbestos. A copy of the entire Memorandum is available from the Quebec Asbestos Mining Association.

QUEBEC ASBESTOS MINING ASSOCIATION

The Quebec Asbestos Mining Association was incorporated in 1931. Its member companies include five Quebec asbestos producers—Asbestos Corporation Ltd., Bell Asbestos Mines Ltd., Canadian Johns-Manville Co. Ltd., Carey-Canadian Mines Ltd. and Lake Asbestos of Quebec Ltd.

One of the main objectives of QAMA is to encourage a collaborating attitude between the members of the Association and between the Association itself and other organizations, public bodies, etc., in an effort to find a solution to the problems of the asbestos industry such as working conditions, dust in the atmosphere and growth.

Another of its objectives is to develop and improve the mining and processing of asbestos, in general, by contributing to the establishing of uniform standards concerned with the quality of asbestos fibers and by promoting technical research and economic and scientific studies.

The QAMA Standards for the production and classification of asbestos fibers, adopted by the Association, are recognized universally for the qualification of asbestos fiber. In addition, the technology used by asbestos mines in countries other than Canada (such as the Republic of South Africa, Rhodesia, Australia and Russia, in its most recent plants) is based on that created and established by the member companies of QAMA.

Quebec asbestos mines produce about 35% of all Chrysotile produced in the world, including the USSR. As a group, these Quebec mines directly create some 6,400 jobs in the mining, concentrating and processing of ore—and, indirectly, some 65,000 people, who form the combined total population of the communities in Quebec where asbestos mining operations constitute the economic mainstay, depend financially for their future on the asbestos industry in that Province.

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THE INSTITUTE OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH

In 1966 QAMA created The Institute of Occupational and Environmental Health. It is directed by a Scientific Committee which groups selected scientists from Canada, the United States and Europe, each of whom must have a recognized competence in the field of health and asbestos and who may not be related in any way to any industry.

Since its creation the IOEH has endeavored to promote scientific research into the influence of asbestos on health. Each member of the Scientific Committee individually studies each request submitted to the group and then the entire Committee meets to discuss the matter, after which the Committee presents its recommendations to QAMA.

QAMA has always acted according to the recommendations of the Scientific Committee. Furthermore, the subsidies granted are not given directly to the researcher involved but to the Institute or University to which he is attached. Whatever the results obtained from any of the research projects, they are published. The Association advises it has never attempted to prevent the publication of a result which was not to its advantage or to that of any or all of its member companies.

The works so created and encouraged by QAMA and IOEH constitute a most important worldwide contribution to the progress of science in the field of the biological action of asbestos.

IOEH has received over $4-million from QAMA since 1966, covering 25 research projects. Separated into five groups the first of the projects compares epidemiological studies at Chrysotile mines in Canada with those of Chrysotile mines in Italy and Anthophyllite mines in Finland. The second group of subsidies includes epidemiological studies in the asbestos-cement industries and at shipyards. A third group includes epidemiological studies on mesothelioma occurring in the general populace. A fourth group includes studies on the physico-chemical state and transformation of asbestos fibers during the various technological stages from mining through to end uses—and relates them to studies of the health of workers exposed to asbestos fibers during the various stages. A fifth group includes studies of the "dynamic in vivo" of asbestos and on the mechanism of the biological action of asbestos, i.e., studies on the penetration, deposition and retention of fibers in the lungs and the biological response or reactions of cells to asbestos fiber.

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IOEH has also received the necessary funds and authority to take measures to find and coordinate, on a worldwide basis, all available data concerned with the subject of asbestos and health. For that purpose the Institute established new contacts and maintained existing contacts with various organizations and agencies which already had begun this type of research or who were agreeable to actively contributing to such research.

The institute owns one of the most complete libraries in the world dealing with asbestosis and other diseases related to asbestos exposure. This library is available to anyone who wishes information or consultation in connection with asbestos-related health problems.

COMMITTEE FOR ENVIRONMENTAL CONTROL

In addition to medical research, QAMA contributes to the fight against dust. For many years a Committee for the Protection of the Environment and an engineering specialist in the field, employed by the Association, have been working toward improving environmental conditions.

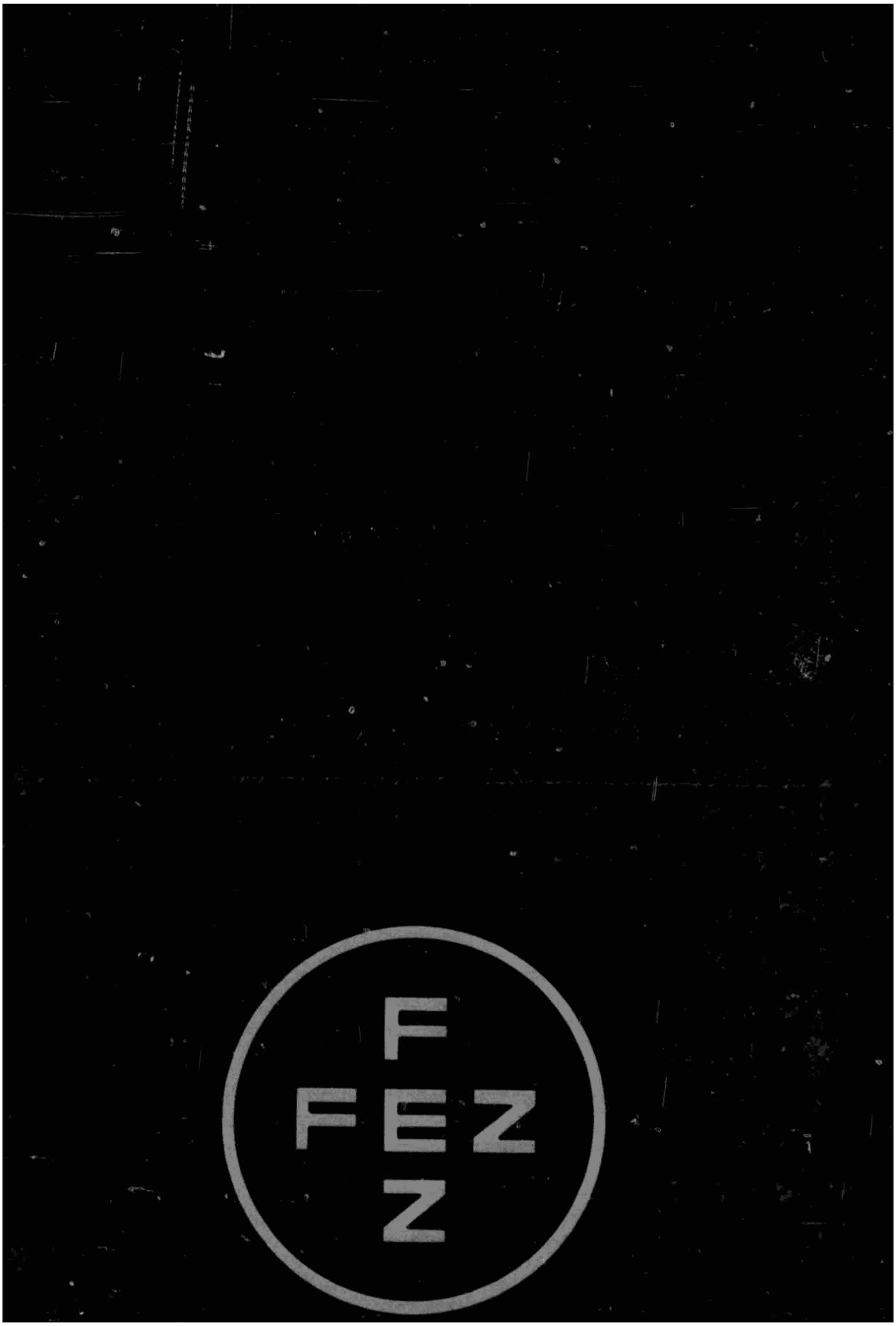
Even though all QAMA member companies are competitors in the marketplace, they have agreed to share any information related to environmental control via a QAMA Technical Subcommittee whose members include a representative of each member company. Consequently each mine experimenting with a new system or method of dust collection communicates the results of the testing to all other member companies through the Subcommittee. To open a wider spectrum of research, and to eliminate duplication of effort and save resources, the Subcommittee supplies pertinent sketches and specifications to companies outside the membership of QAMA.

The Committee for Environmental Control financially encourages practical research in the fight against dust, including the initiation of university research on such studies as the effectiveness of respiratory masks and on the vegetation of tailings piles.

Finally, the Quebec Asbestos Mining Association actively exchanges information with other technical committees, national and international, who share its same objectives.

QAMA and its member companies are to be commended for their untiring and continuing efforts toward better working conditions, a safer work environment and growth and progress for the Asbestos industry.

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AIA/NA CONFERENCE REPORT

Following are a few of the highlights of the productive Third Annual Industry-Government Conference held last month by the Asbestos Information Association / North America.

Environmental Protection Agency—Among EPA's several ongoing studies concerned with asbestos are the identification of natural and manmade sources of asbestos; the leaching of fibers from a/c pipe; analytical and monitoring techniques; health risks from exposure by ingestion; and asbestos as a contaminant in drinking water and in waterways near asbestos mines and factories.

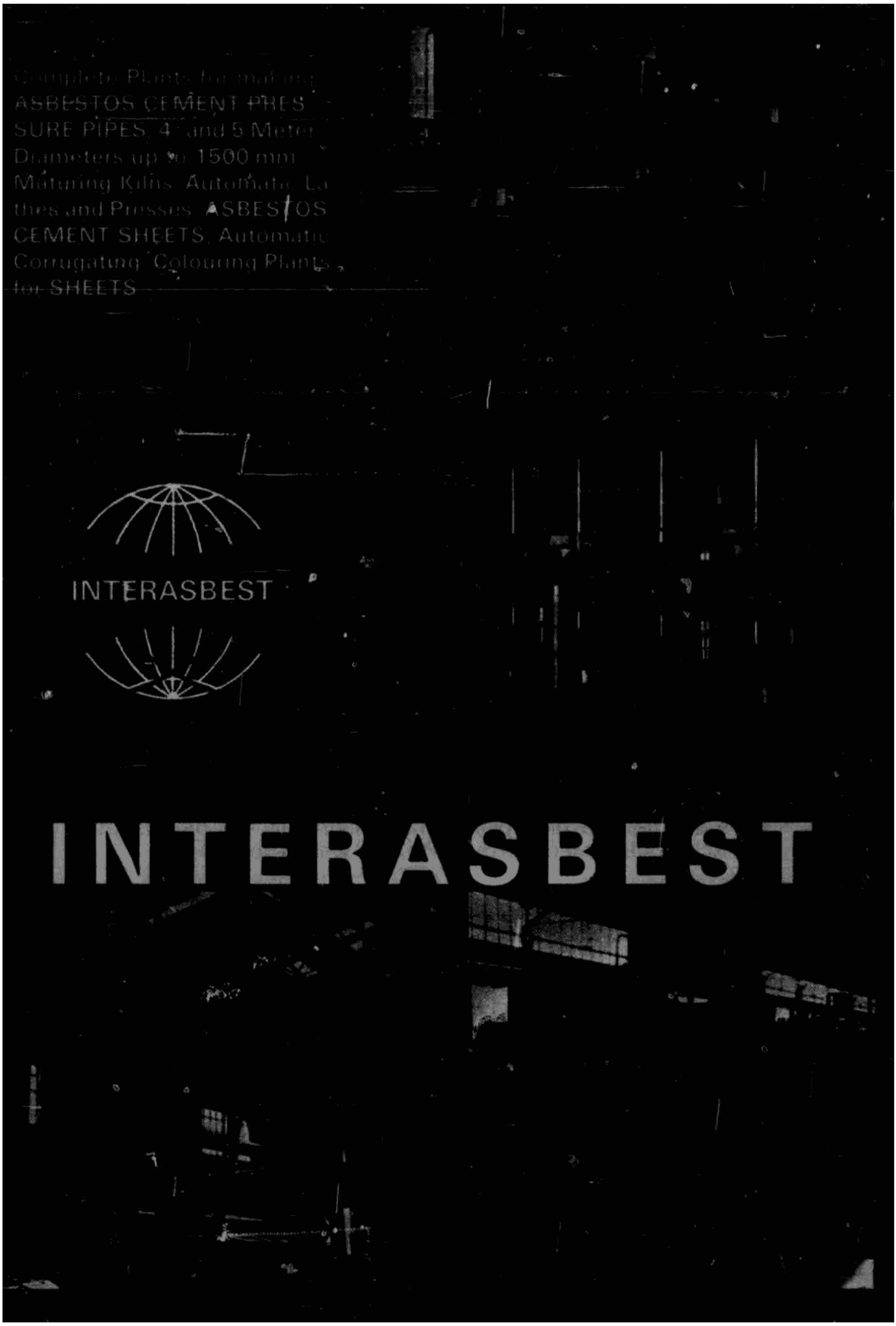
Occupational Safety and Health Administration—Regarding the asbestos manufacturing standard, AIA/NA was commended for submitting detailed, complete and useful data on the impacts that would accrue if the proposal were to become a regulation. OSHA's inflationary impact statement is expected shortly and it seems reasonable to anticipate a hearing before the end of this year. Concerning the forthcoming construction proposal, OSHA has engaged Research Triangle Institute for an engineering feasibility study and an inflationary impact analysis. AIA/NA is independently undertaking a similar study to discern the impact of a construction standard on the asbestos manufacturing industry.

United Steel Workers of America, AFL/CIO—Labor is putting forth an intense effort toward the creation of a system that would permit the continuance of public discussions on the health issue, to the end that some positive, affirmative action will be taken toward bettering the work environment. Concern was expressed that government is considering economic feasibility when setting standards.

Summarization—Based on current medical knowledge, the Asbestos Industry believes there is a dose-response relationship between asbestos and the diseases which it causes—and the present two-fiber level is sufficient to protect the workforce during a working lifetime. Until it can be established this is not a safe level, we should not pay the price of severely damaging or destroying a valuable industry. The present incidence of disease now being observed is a product of very high exposures to airborne asbestos in the past. The Industry should continue its all-out effort to make this point with the regulatory authorities and if it ultimately does not have the kind of standard required to run its businesses, the unsatisfactory regulation should be challenged in the courts. In any event, businessmen should act responsibly and should not be satisfied with a two-fiber level in any case where that level can be lowered. Interestingly enough, the final decision will be made by the American people in the marketplace and through the political process. It will be the consuming public who will ultimately decide at what point occupational safety and health becomes more expensive than the benefits derived therefrom.

A Positive Future—In reflecting on the evolution during the past 3-4 years from a situation of oversupply to one of shortages, one spokesman at the Conference expressed optimism regarding the expected growth in demand for asbestos and confidence that the Industry can efficiently and safely use asbestos fiber and asbestos-containing products.

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COMPANIES & PRODUCTS

NEW RESIN-ASBESTOS COMPOUND

Ube Cycon Ltd., Tokyo, Japan, has developed a synthetic resin-asbestos compound, called ASLAC, which is said to offer improved impact strength, rigidity, dimensional stability and heat and crack resistance over other thermoplastic materials. It is composed of a blend of asbestos and latex, an intermediate product of acrylonitrile-butadiene-styrene (ABS), and manufactured by a process totally unique from the conventional methods of producing plastics composites reinforced with inorganic fillers.

One of the problems in making a composite of thermoplastics and asbestos fibers is the difficulty of attaining sufficient adhesion between resin and fibers. In the technique to manufacture ASLAC, asbestos fibers are fully opened via a wet method so as not to cause fiber breakage. In this fully-opened condition the asbestos fibers, usually Chrysotile, adsorb the plastic materials resulting in additional strength of the finished product.

ASLAC is available in international markets in the form of thick sheets. Standard size is 1200mm x 2400mm with thicknesses from 3mm to 40mm. Sheets measuring 1800mm square can also be supplied.

Ube Cycon has commenced producing ASLAC in pellet form via a small-scale pilot plant. The pellets will not be available overseas until domestic markets are well established.

CERTAINTEED SHARES PURCHASED

Saint-Gobain-Pont-a-Mousson, Paris, France, and *Turner & Newall Ltd.*, Manchester, England, have agreed that SGPM will purchase from T&N 1,650,740 common shares of *CertainTeed Corporation*, Valley Forge, Pennsylvania, constituting all of the shares of CertainTeed presently owned by T&N and representing approximately 12.7% of the common shares of CertainTeed currently outstanding. The transaction has been approved by both Boards of Directors and approval is expected shortly from the French government and the Bank of England. The proceeds of the sale amount to US$34,665,540. With the purchase SGPM will hold about 52% of the outstanding voting shares of CertainTeed.

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asbestos processors

EXPANDING IN QUÉBEC WHERE THE MAJOR SUPPLIERS OF FIBRE ARE WELL ESTABLISHED DOES OFFER ADVANTAGES THAT YOU SHOULD EXPLORE - - AND QUÉBEC IS WILLING TO ASSIST YOU TO DO JUST THAT.

TO FIND OUT MORE ABOUT OUR VARIOUS INCENTIVES AND INDUSTRIAL DEVELOPMENT PROGRAMS KINDLY CONTACT THE INDUSTRIAL PROMOTION BRANCH.



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1, Place Ville-Marie
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Telex: 051-3523

NEW USE FOR LITAFLEX

New technologies call for new materials and Rex Asbestwerke, Schwabisch Hall, West Germany, reports that its "litaflex" asbestos foam is suitable for application in the metallurgical engineering field. The proper insulation in Cowper stoves (blast furnaces) must hinder corrosion of the steel mantle and thermic overstress of the casing. A spokesman for Rex Asbestwerke says that because "litaflex" asbestos foam meets these high standards, it is used by the manufacturing concern, Käfer-Ferm, Newcastle, Republic of South Africa.

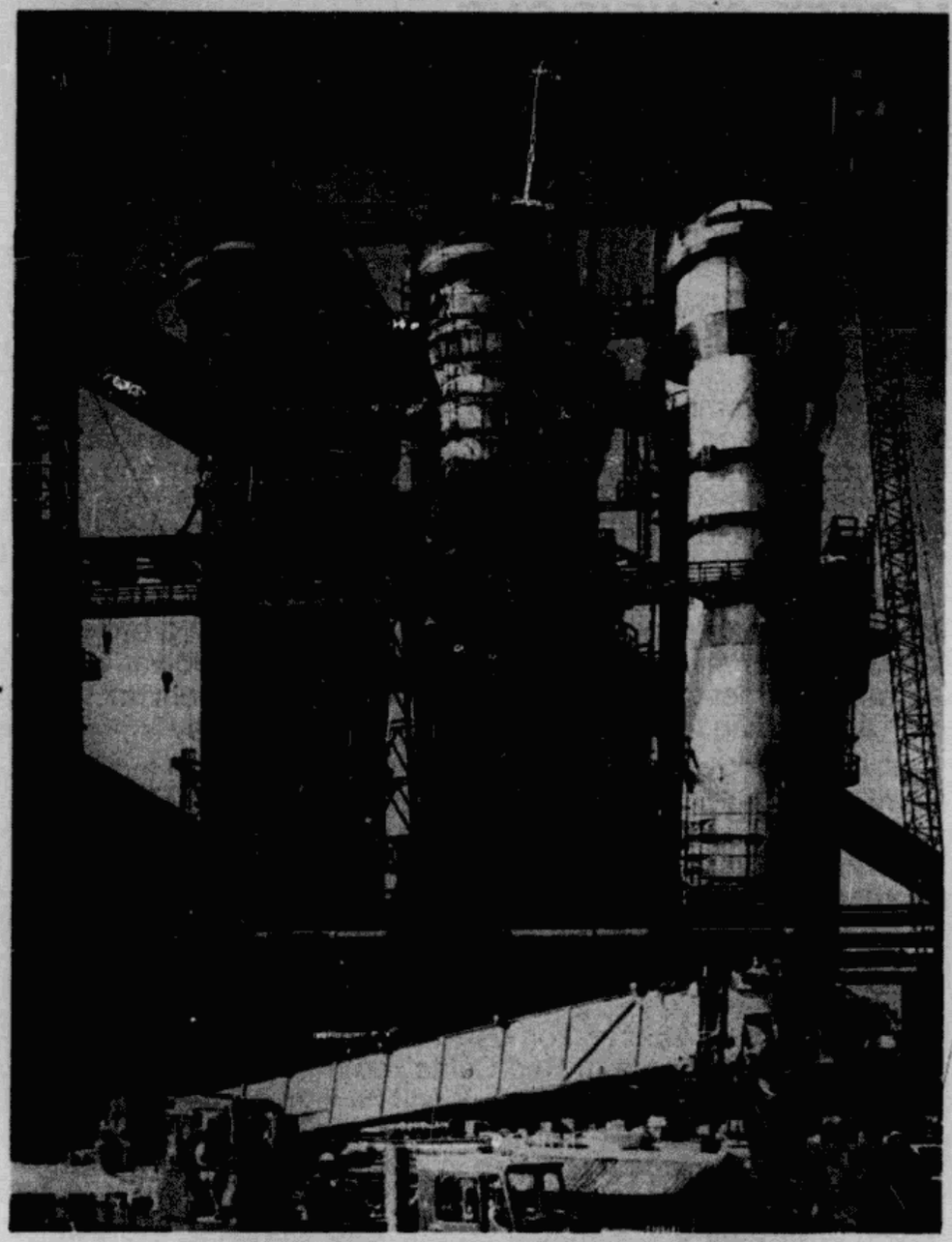
ERRATA

The July 1976 issue of ASBESTOS, on the front cover and page 6, carried a story of the utilization of Glasal panels to face all sides of the impressive National Employer's House in Johannesburg, Republic of South Africa. It was stated that the panels were an asbestos-cement product of *Everite Ltd.* In actuality, Glasal panels are manufactured by *Eternit,* Belgium, and marketed in South Africa by Everite. We are grateful to G. R. Midgley, Everite's Advertising Manager, for suggesting this clarification.

INDUSTRIAL OPPORTUNITIES

Yugoslavia—Technology, equipment and expertise are sought for a plant to produce gaskets and gasket materials for internal combustion engines. A joint venture is preferred with a partner investing up to 49% in technology and equipment but with direct sale and license agreement also feasible. Sales of $6-million per year are projected with markets in the Federal Republic of Germany, France, Italy, the United Kingdom and all East European countries. . . . *United States*—Licenses are available for a new process that turns powdery substances almost dustless by integrating them into a web formed from submicroscopic fibers of unsintered polytetrafluoroethylene (PTFE) named Teflon K. The treated powders improve heat transfer and material losses can be cut as much as 25%. Technology has been used successfully on more than 150 different materials. [UNIDO Newsletter, a publication of the United Nations Industrial Development Organization]

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solves any function of insulation in any range of technic.

for instance: insulation of a Cowper stove (blast furnace) with litaflex, made by Messrs. Käfer-Ferm at Newcastle/South Africa.

REX ASBESTWERKE, Graf von Rex GmbH & Co. KG.
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MARKET CONDITIONS

GENERAL BUSINESS

The pace of recovery, which slowed to a walk during the third quarter, seems poised for considerable improvement during the balance of the year. Consumer demand is strengthening after a summer lull, industrial production has turned up rather sharply and there are increasing indications that capital spending is about to break out of its protracted slump.

In mid-September several large banks lowered their prime rates to 6¾% and yields on Treasury-bills declined to just above 5%, accompanied by similar softening in other short and long term interest rates, leading to a rally in the bond market. So long as these conditions exist there is little danger of credit tightening to a point where it would impede the current economic upswing. In truth, demand for bank loans has remained unusually low for this stage of an economic recovery but the banks have been reluctant to lower their relatively high rates. While a lower prime may stimulate lending activity, there are other factors at work which are tending to limit demand for short term money.

While lower food prices have recently offset rises in industrial commodities, holding the rate of inflation below 6%, unfavorable weather has caused crop losses which may result in higher food prices to consumers next year. These, if accompanied by the threatened increase in the price of imported oil, would contribute to a renewed upsurge in the general price level, reaffirming the fact that inflation is not dead.

On the international front, the death of Mao Tse Tung has given rise to much speculation as to the identity of his successor and the future course of Red China, both internally and in relationship to the rest of the world. It will be some time before answers will become known. Also of great interest was the recent election in Sweden which resulted in defeat for the Social Democratic Party after 44 years in power. While no major changes in existing programs are anticipated, the vote indicates a growing disaffection for, and probable end to, further expansion of the welfare state with its attendant heavy tax burden and restrictions on individual initiative.

The Presidential campaign is now well under way and, as might be expected, the main topics of discussion are unemployment, inflation and taxes, all of which can be effectively used to evoke vociferous crowd reactions. Such reactions are apt to be highly emotional and are more easily aroused by attacking rather

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than by defending an incumbent administration. Thus, Mr. Carter's forces enjoy a slight tactical advantage over those of Mr. Ford. To what extent they can exploit this advantage remains to be seen.

ASBESTOS FIBER

Demand continues strong for all grades of asbestos fiber. Unofficial figures show Canadian shipments of asbestos for the First Six Months of 1976 totaled 824,770 short tons vs 543,295 tons for the same period in 1975.

To date, demand for all fiber grades is still exceeding supply and this situation should continue through this year and into the next. It appears the U.S. economy is on the threshold of a well-balanced upswing which should result in further improvement in all U.S. markets for asbestos fiber.

Shipments to overseas countries, where large quantities of asbestos cement grades are consumed, remain strong as companies continue to restock their inventories. This trend should persist through 1976 and into 1977.

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

JUNE 1976

UNMANUFACTURED ASBESTOS:

Amosite	s.tons	..	$ ..
Crocidolite (Blue), South Africa	s.tons	414	195,419
Chrysotile, Crudes, Rhodesia	s.tons	276	301,755
South Africa	s.tons	158	83,606
Chrysotile, Spinning Fibers, Canada	s.tons	700	756,319
Chrysotile, Other, Canada	s.tons	54,541	11,243,593
Mexico	s.tons	3	657
Other Crudes & Fibers, Canada	s.tons	1,668	291,121
Hong Kong	s.tons	2	345
Mexico	s.tons	52	21,624
South Africa	s.tons	692	353,026
USSR	s.tons	1,107	264,490
		59,613	$13,511,955

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	618,544	$ 891,562
A-C pipes, tubes & fittings	Lb	2,226,202	185,952
Other asbestos-cement articles	Lb	2,909,548	451,122
Other asbestos articles		..	573,786
			$ 2,102,422

JANUARY-JUNE 1976

UNMANUFACTURED ASBESTOS:

Amosite, Canada	s.tons	20	$ 469
South Africa	s.tons	1,151	503,663
Crocidolite (Blue), South Africa	s.tons	4,712	2,315,466
Chrysotile, Crudes, Canada	s.tons	289	125,175
Mexico	s.tons	234	125,486
Rhodesia	s.tons	1,095	1,115,230
South Africa	s.tons	351	193,918
United Kingdom	s.tons	119	55,992
Chrysotile, Spinning Fibers, Canada	s.tons	2,394	2,053,568
Chrysotile, Other, Canada	s.tons	298,988	60,006,713
Germany, West	s.tons	1,086	202,826
Mexico	s.tons	17	3,919
South Africa	s.tons	396	217,440

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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.

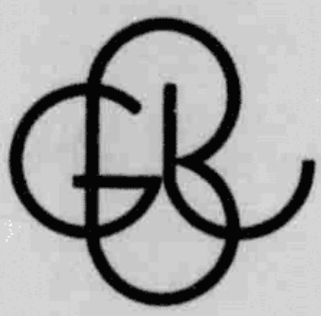
— Auxiliary machines for special sheet profiles.

— 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.



U.S. IMPORTS—CONTINUED

Other Crudes & Fibers, Canada	s.tons	8,759	1,450,342
Germany, West	s.tons	823	179,840
Hong Kong	s.tons	2	345
Mexico	s.tons	52	21,624
South Africa	s.tons	1,953	898,889
USSR	s.tons	6,700	1,292,721
		329,141	$70,763,626

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	3,556,082	$ 5,009,052
A-C pipes, tubes & fittings	Lb	4,438,751	419,142
Other asbestos-cement articles	Lb	9,697,008	1,575,228
Other asbestos articles		..	2,879,499
			$ 9,882,921

AUSTRALIAN A/C SHEET PRODUCTION

Production in Australia of flat, corrugated, molded and grooved asbestos-cement sheets for the *Nine Months To March 1976* totaled 30,374,000 square meters, 2.1-million square meters less than in the same period last year. [Bureau of Statistics, Canberra]

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use) amounted to 116,083 short tons in *July 1976*, 45,443 tons more than in July 1975. The cumulative total for the *First Seven Months of 1976* was 944,243 tons: 768,090 tons from Quebec plants and 176,153 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January-July 1975 was 613,985 tons: 453,010 tons from plants in Quebec and 160,975 tons from plants in the other four Provinces. [Statistics Canada, Ottawa]

CANADIAN PRODUCT IMPORTS

Imports of various asbestos-containing products for the *First Quarter 1976* were valued as follows: vinyl-asbestos floor and wall tiles—$31,000 (26,109 square yards); asbestos cloth, dryer felts and sheets—$886,000; asbestos packing—$384,000 (293,291 pounds); asbestos brake linings—$1,265,000; asbestos clutch facings—$155,000; asbestos-cement shingles and siding—$44,000; asbestos-cement boards and sheets—$97,000; other asbestos building materials—$1,429,000; and other asbestos basic products—$691,000. [Statistics Canada, Ottawa]

Asbestos Magazine, 1976, October 1976
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The bigger the building, the more important fire-proofing becomes.

That's why today's buildings have asbestos-cement walls and even floors containing asbestos.

Asbestos contains fire, cannot burn and holds up after metal and glass have melted down, giving vital time for people to escape.

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Yah Sheng Chong Yung Kee Co. Ltd., 198 Nanking East Rd., Section 2, Taipei, TAIWAN.
Other representatives world-wide.

FELT SHIPMENTS FROM CANADA

Canadian shipments of *asbestos, cotton and synthetic dryer felts and fabrics* for the *First Half 1976* totaled 1,946,195 square feet valued at $5,182,743 to domestic papermills and 361,679 square feet valued at $979,956 to foreign papermills. Shipments of *woven and/or needled wet felts and jackets* amounted to 617,431 pounds valued at $8,261,633 to Canadian papermills; 11,428 pounds valued at $81,026 to Canadian manufacturers of asbestos-cement pipes and/or sheets; and 316,963 pounds valued at $4,049,497 to foreign papermills and makers of asbestos-cement pipes and/or sheets. [Statistics Canada, Ottawa]

CYPRUS FIBER PRODUCTION

Production of asbestos in Cyprus for the *Year 1975* totaled 35,022 short tons valued at £2,673,045, ahead 4,007 tons in quantity and £618,875 in value over the prior year. Production in the *First Half 1976* reached 11,184 tons valued at £1,061,030 compared with 14,462 tons valued at £1,054,610 for the same six months a year earlier. [Ministry of Commerce & Industry, Mines Department, Nicosia]

INDIA A/C PRODUCTION

The monthly average of asbestos-cement products manufactured in India during the *First Nine Months of 1975* was 39,500 metric tons, compared with the four prior full years of 35,000 tons in 1974, 35,000 tons in 1973, 32,000 tons in 1972 and 33,000 tons in 1971. [Journal of the National Buildings Organization, New Delhi]

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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Keeps you abreast of all developments. Each issue contains about 100 abstracts relating to the manufacture of asbestos-based products. Special chapters on asbestos mining, asbestos-cement, friction and asbestos-reinforced plastics. Annual subscription £19.50; back copies half price. Order from:

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Pneumatic sheet corrugating unit

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

JUNE 1976

UNMANUFACTURED ASBESTOS:

Fibers not further processed than beaten, washed or graded to length	s.tons	2,418	$ 790,257
Waste and refuse	s.tons	2,143	408,516
		4,561	$ 1,198,773

MANUFACTURED ASBESTOS PRODUCTS:

A-C shingles & clapboard	Lb	2,936,550	$ 530,883
Other a-c fiber-cement articles	Lb	3,435,352	648,230
Gaskets	Lb	37,600	159,328
Packing	Lb	620,619	855,651
Heat or sound insulation		..	469,204
Textiles & yarns	Lb	2,100,800	861,233
Protective clothing		..	37,032
Mfrs. other than friction materials		..	1,080,861
Clutch facings & linings for auto. use	No	78,291	156,998
Other clutch facings & linings	No	4,657	12,242
Brake linings for automotive use	Lb	802,219	669,204
Other brake linings	Lb	259,062	253,192
			$ 5,734,058

JANUARY-JUNE 1976

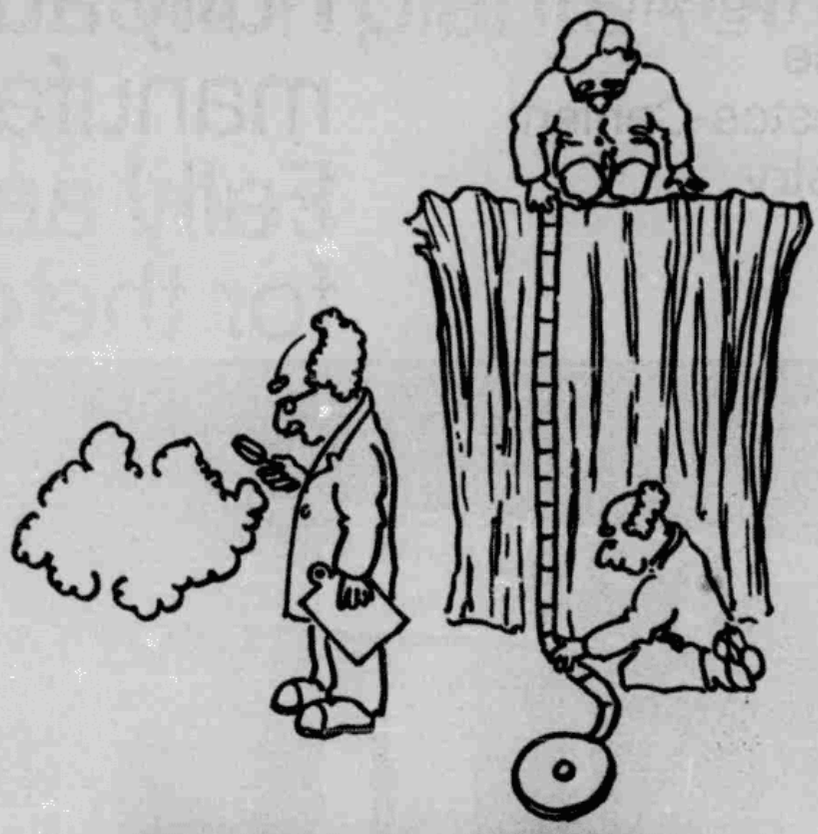
UNMANUFACTURED ASBESTOS:

Fibers not further processed than beaten, washed or graded to length	s.tons	12,481	$ 3,960,534
Waste and refuse	s.tons	15,075	3,220,106
		27,556	$ 7,180,640

MANUFACTURED ASBESTOS PRODUCTS:

A-C shingles & clapboard	Lb	15,262,366	$ 2,571,675
Other a-c fiber-cement articles	Lb	12,830,523	2,488,494
Gaskets	Lb	358,947	817,441
Packing	Lb	2,211,384	4,437,635
Heat or sound insulation		..	2,273,455
Textiles & yarns	Lb	7,923,236	3,546,621
Protective clothing		..	458,299
Mfrs. other than friction materials		..	6,490,180
Clutch facings & linings for auto. use	No	364,518	637,864
Other clutch facings & linings	No	100,963	89,488
Brake linings for automotive use	Lb	5,181,830	4,351,482
Other brake linings	Lb	1,286,225	1,332,971
			$29,495,605

Asbestos Magazine, 1976, October 1976
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Amosite from Cape

With its outstanding filtration characteristics, Amosite in asbestos cement products improves drainage, speeds production.
Its longer fibres add flexibility and strength and for insulation there is nothing better.
Of course, much of this depends on the suitability of the fiberisation techniques employed. And on the application of the right amphibole fibre for the job—two very special good reasons for contacting Cape, the world's largest producers. Our technical service people will be happy to advise on any aspect.

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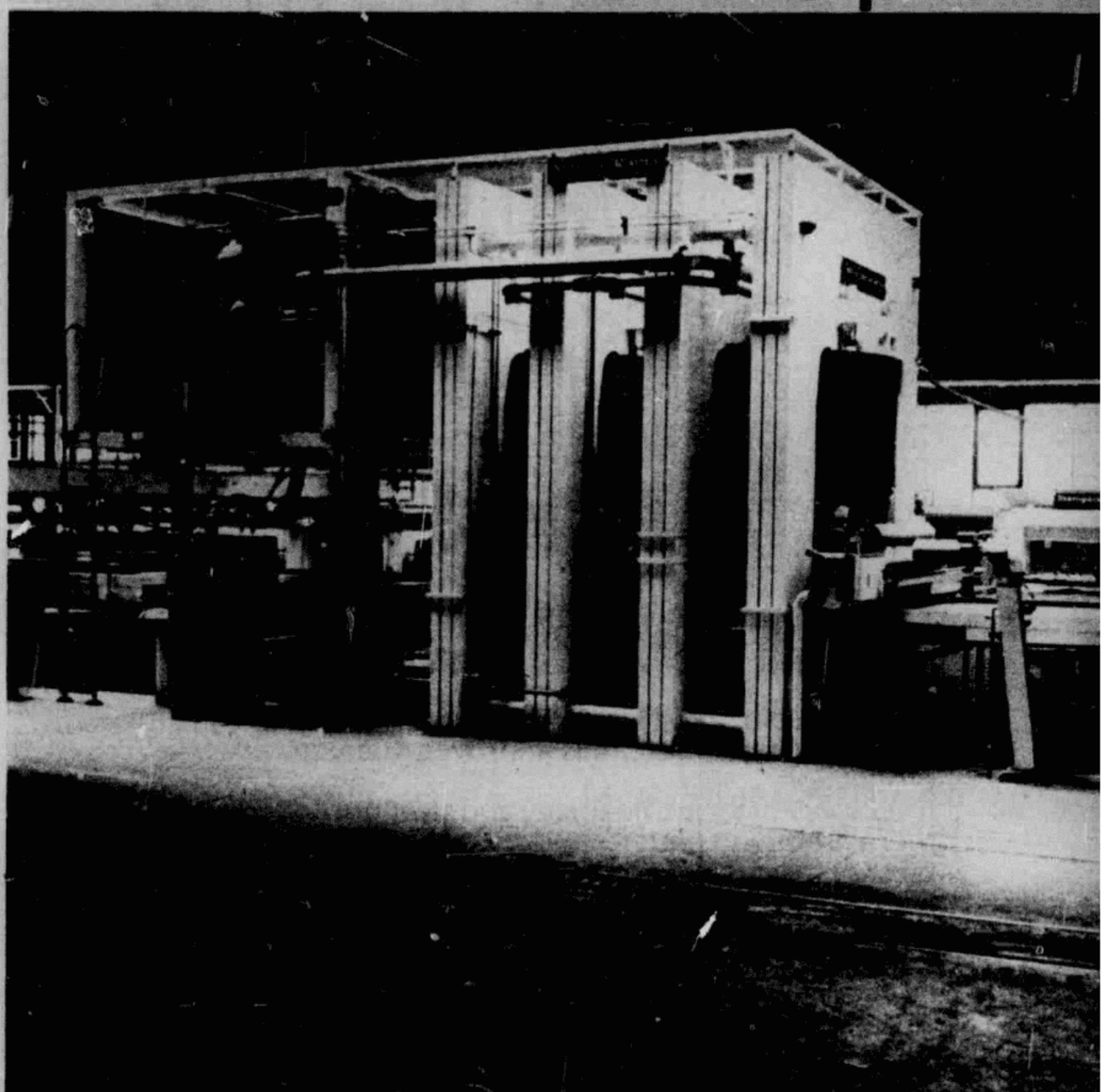
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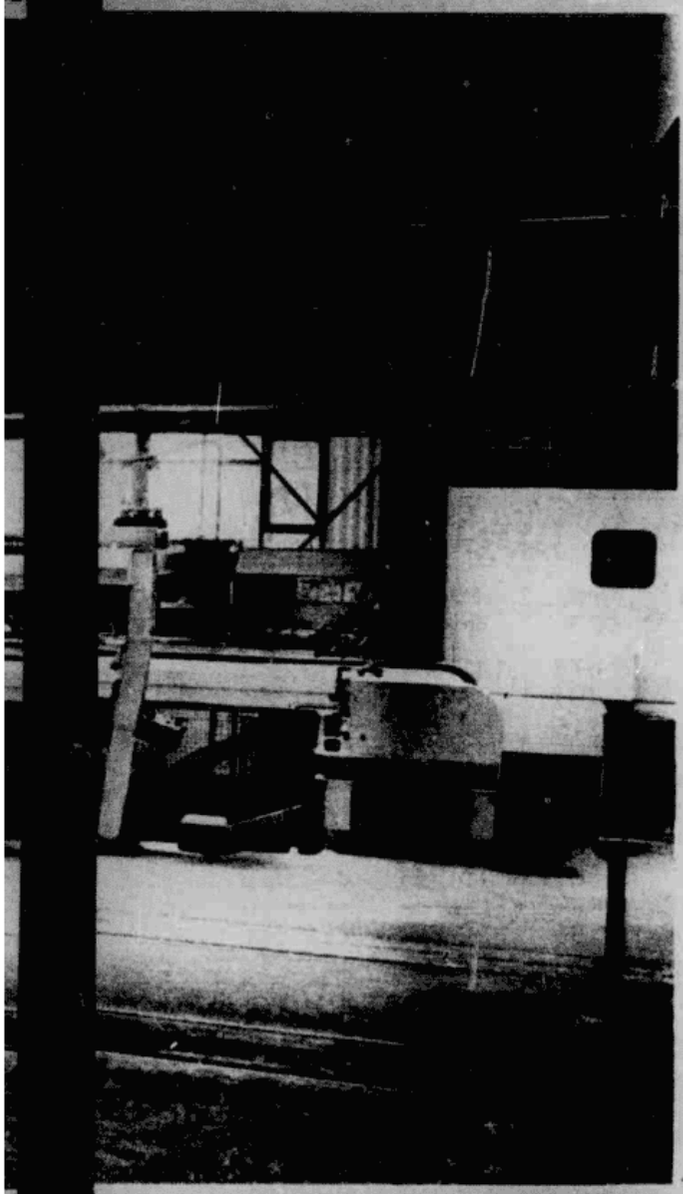


Siempelk

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ic production plants for the of:

ic press lines ction of:



flat and corrugated asbestos-cement sheets

asbestos-cement pipes

highly compressed asbestos-cement sheets

Fully automatic press lines for: laminating of flat asbestos-cement sheets

Fully automatic press lines for the production of building elements

hydraulic presses for asbestos-cement-sheets

hydraulic stamping presses for edge trimming and cutting-to-size

hydraulic pipe testing presses

hydraulic pipe bursting presses

12.000 tons short-cycle press and 315 to stamping press for the production of asbestos-cement sheets
size of finished sheets: 1600 x 3600 mm
cycle time: 12 seconds

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EXPORTS FROM CANADA

From: Statistics Canada

JUNE 1976
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,062	25,016	13,065
Eastern Europe	..	50	1,060	501
Middle East	..	..	1,438	599
Africa	..	..	810	140
Asia	..	160	10,592	12,700
Oceania	..	..	5,408	899
So. & Cen. America & Antilles	..	83	6,651	2,353
United States	..	974	16,064	43,402
	..	2,329	67,039	73,659

The total amount of unmanufactured asbestos exported in *June 1976* was 143,027 short tons, valued at $41,189,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 200,000
Asbestos brake linings & facings	177,000
Asbestos-Cement building materials	1,027,000
Other basic asbestos products	273,000
	$1,677,000

JANUARY-JUNE 1976

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	10	5,678	141,081	88,843
Eastern Europe	..	494	7,809	1,364
Middle East	..	215	7,768	3,246
Africa	..	..	4,231	3,279
Asia	..	728	48,551	68,414
Oceania	..	5	25,090	3,782
So. & Cen. America & Antilles	..	1,109	41,735	16,752
United States	20	3,567	75,941	236,829
	30	11,796	352,206	422,509

The total amount of unmanufactured asbestos exported in *January-June 1976* was 786,541 short tons, valued at $224,771,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$1,282,000
Asbestos brake linings & facings	843,000
Asbestos-Cement building materials	4,289,000
Other basic asbestos products	1,360,000
	$7,774,000

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Producers of

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& Fibres



Sales Representatives

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Cassiar Asbestos Corporation Limited

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THE MINING SCENE

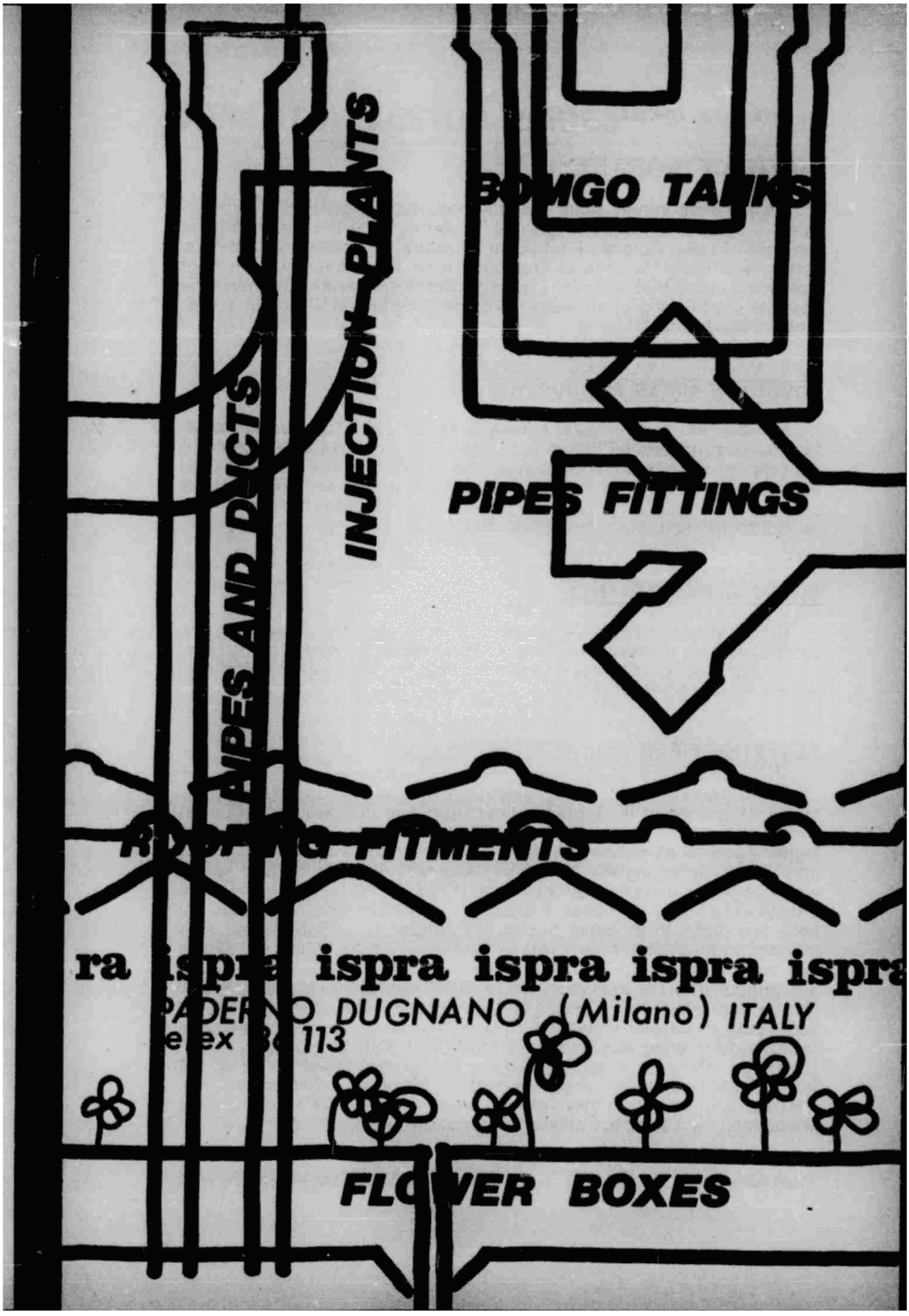
WOODSREEF MINES LTD.

Woodsreef Mines Ltd. reported a net operating profit of A$895,000 for the nine-month period to July 31, 1976, excluding exploration, capital and development expenditures. As a comparison, the net operating loss for the same period a year earlier was $2,658,000. After extraordinary income from profit on the sale of the company's old mining fleet, net profit for the latest period was $1,021,000. Sales revenue reached $13,375,000 against $7,489,000 and fiber production amounted to 45,788 metric tons compared with 33,601 tons. Operations at the *asbestos mine and mill at Barraba, New South Wales, Australia*, showed a significant improvement over the comparable period in 1975. In the current nine months, ore was derived exclusively from the North Pit. In the same period in 1975, 48% of the ore came from the South Pit. Improvements in milling techniques permitted the production of a consistently higher grade or fiber. This coupled with price increases in 1975, accounted for an over 30% increase in revenue per ton of fiber. . . . The results from the three-hole program carried out by Woodsreef's wholly-owned subsidiary, *Yulgilbar Exploration Ltd.*, on an area at Baryulgil, 66 kilometers northwest of Grafton, New South Wales, have been analyzed in conjunction with information from a large number of shallower holes drilled in the same area a number of years ago. The analysis produced encouraging data and it has been decided to proceed with a ten-hole 3,000 meter program to delineate areas of mineralization and to give an indication of the potential tonnage in the target area. . . . *Five exploration licenses in N.S.W.* have been approved by the N.S.W. Department of Mines. The licenses were taken out with the primary objective of further exploration for asbestos. . . . Woodsreef Mines acquired a 95% interest in *ten mineral claims in Western Australia*. The area was previously held by Antelope Exploration Pty. Ltd. and offers potential for Chrysotile asbestos development.

STUDY IN THE SUDAN

According to Mining Magazine, the 70,000-square-kilometer *Qala en Nahal-Ingessana Hills area*, largely in Blue Nile Province near the Ethiopian border, was selected for photo-geological study and airborne geophysical surveys under the auspices of the United National Development Program in 1968. During regional mapping and prospecting, numerous occurrences were noted of asbestos as well as of chromite, talc and magnesite. . . . In 1968 and 1969 some detailed prospecting was carried out on the Kukur asbestos deposit in the western Ingessana Hills and on an asbestos-bearing zone north of the village of Fadamiya. . . . Detailed investigations since then have indicated 16-million metric tons of ore, grading 3% Chrysotile asbestos, in a deposit in the Ingessana Hills. Bulk sampling and drilling is scheduled, as well, on a second asbestos-bearing area.

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TANZANIAN TREMOLITE

A geological survey team recently undertook a general reconnaissance project in the *Mara Region* of Tanzania, near the Kenya border just east of Lake Victoria. Past scant literature describes the asbestos variety reported in the area as Tremolite. Also, it has been learned from a reliable source that there is talk at the Ministerial level concerning the possible establishing of an asbestos cement factory in Tanzania sometime in the future.

ADVOCATE MINES PRODUCTION

For the first half of 1976 *Advocate Mines Ltd.*, Baie Verte, Newfoundland, produced 45,266 tons of asbestos, nearly 12,000 tons more than during the same period a year earlier. Fiber shipments reached 50,825 tons compared with 26,070 tons, percentage recovery from ore crushed was 4.56% against 2.69% and waste-to-ore ratio was 4.08:1 vs. 3.28:1 for the first six months of 1975.

CITLEC SEEKS PARTNER

Citlec Minerals Ltd., Vancouver, British Columbia, is seeking the participation of a major company in its asbestos prospect at *St. Cyr, Richmond County, Quebec.* Citlec estimates the property contains approximately 50-million tons of ore-grade material.

ASBESTOS FIBER PRICES TO INCREASE

Johns-Manville Corporation announced a 14% increase in the prices for all 21 grades of its asbestos fiber, effective January 1, 1977; applicable in both the United States and Canada. The boost is attributed to higher costs in all phases of J-M's asbestos mining operations. . . . Immediately following the J-M move, *Asbestos Corporation Ltd.* said it will raise prices for asbestos fiber in the U.S. by 14% for all grades, also effective the first of next year. Asbestos Corporation reported it does not have any plans to increase prices in Canada. . . . Subsequent to a meeting in mid-September, *Cassiar Asbestos Corporation Ltd.* said it was planning a 15% price rise for its asbestos fiber products in Canada but reduced it to 7% to comply with Anti-Inflation Board guidelines. The discount applies only in Canada and is effective December 1, 1975, the same date as Cassiar's planned 15% price increase outside Canada—being made to bring its pricing in line with that of other producers. . . . During an interview, a spokesman for *Woodsreef Mines Ltd.* told the National Miner that his company would be raising its asbestos prices in the near future and that they would average out near the 14% increase announced by Canadian asbestos producers.

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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 December 1, 1975 — *Canadian Dollars*

No. 1—Crude	$	$3496.00
No. 2—Crude		1899.00
No. 3—Spinning Fiber	891.00—	1463.00
No. 4—Asbestos Cement Fiber	492.00—	829.00
No. 5—Paper Fiber	278.00—	392.00
No. 6—Paper and Shingle Fiber	236.00—	244.00
No. 7—Shorts	89.00—	198.00

CASSIAR — *Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of January 1, 1976 — *Canadian Dollars*

	Cassiar Mine	
C-1		$3149.00
AAA	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1820.00
AA	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1447.00
A	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1102.00
AC	Grade—Nonferrous Spinning Fiber/Canadian Group 3	794.00
AK	Grade—Asbestos Cement Fiber/Canadian Group 4	566.00
AS	Grade—Asbestos Cement Fiber/Canadian Group 4	490.00
AX	Grade—Asbestos Cement Fiber/Canadian Group 5	449.00
AY	Grade—Asbestos Cement Fiber/Canadian Group 5	315.00
AZ	Grade—Asbestos Cement Fiber/Canadian Group 6	233.00
	Clinton Mine	
CP	Grade—Asbestos Cement Fiber/Canadian Group 4	531.00
CT	Grade—Asbestos Cement Fiber/Canadian Group 4	481.00
CY	Grade—Asbestos Cement Fiber/Canadian Group 5	315.00
CZ	Grade—Asbestos Cement Fiber/Canadian Group 6	233.00

VERMONT — *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of January 1, 1976 — *U.S. Dollars*

Grade 4T—Fiber	$	$ 418.00
Grades 5D thru 5R—Fiber	275.00—	324.00
Grade 6D—Waste	—	200.00
Grades 7D thru 7T—Shorts	83.00—	160.00
Grade 7TF—Floats (Shorts)	—	72.00
Grade 8S—Shorts	—	54.00
Hooker No. 1—in 50-lb. woven poly bags/*eff. 12/1/75*		970.00
Hooker No. 2—in 100-lb. woven poly bags/*eff. 12/1/75*		485.00

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ANNUAL REPORTS—1976

JAMES HARDIE ASBESTOS LTD.

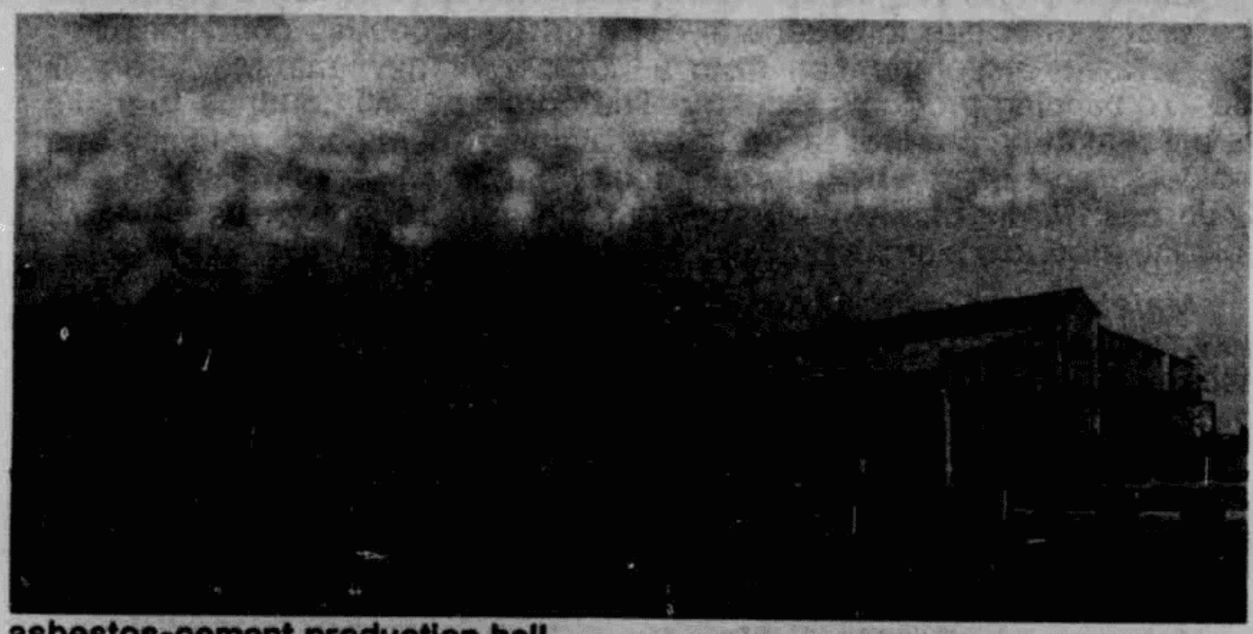
For the year ended March 31, 1976, Group sales rose from A$120.7-million to $143.4-million, an increase of 18.8%, and net operating profit after tax and before extraordinary items rose from $10.5-million to $14.7-million, an increase of 40.5%. After the addition of extraordinary items and the deduction of the interests of minority shareholders, the net profit attributable to James Hardie Asbestos Ltd. stockholders rose from $8.8-million to $14.3-million, an increase of 62.3%. Points to be considered when comparing the figures for 1975 and 1976 are that in the latest year company tax was reduced from 45% to 42.5%, there were no investment write-offs and inflation in Australia and New Zealand had increased at the rate of about 15% per annum. Also, government was restraining expenditures on contracts for housing, water, sewerage and telecommunications; the construction of new private homes was at a depressed level and markets for irrigation were practically non-existent. . . . During the year Hardie Asbestos borrowed the equivalent of $18-million in Australian currency for major expansion projects, the most notable of which are the construction of building products factories at Wacol, Queensland, and Tangerang, Indonesia; the improvement of existing facilities in Australia and New Zealand; and the up-dating of amenities and industrial health and welfare.

Australia—James Hardie & Coy. Pty. Ltd., the principal subsidiary of the Hardie Group, produced a very satisfactory profit for the year. The traditional flat sheet products called Hardiflex and Versilux did well; there was a steady growth in the use of corrugated roofing sheets as fencing; and a higher proportion of a/c products are being used in new home construction. . . . Although the a/c pipe market continued to be depressed there were several major projects during the year that bear mention, such as the introduction of a/c pressure pipes in bore applications in the Perth metropolitan area, the supply of a pipeline from Myponga to Victor Harbor in South Australia and of water and sewerage lines to Albury-Wodonga Growth Center; and extensions and new water supply projects at Saraji, Queensland, and Pilbara, Western Australia. Preliminary planning for the design of the new a/c pipe plant at Berrima Junction is well advanced. . . . The most unique of the several major projects of the Research and Engineering Division was the development of a technique for the use of a/c pipe, in conjunction with steel, as foundation piling for wharves, bridges and buildings.

New Zealand—Housing construction and government spending were reduced dramatically, a freeze was placed on local government borrowing and higher costs prevailed for fuel, power and other services. In spite of a severely reduced market situation, there was greatly improved marketing and production performance and export opportunities were and are being pursued vigorously.

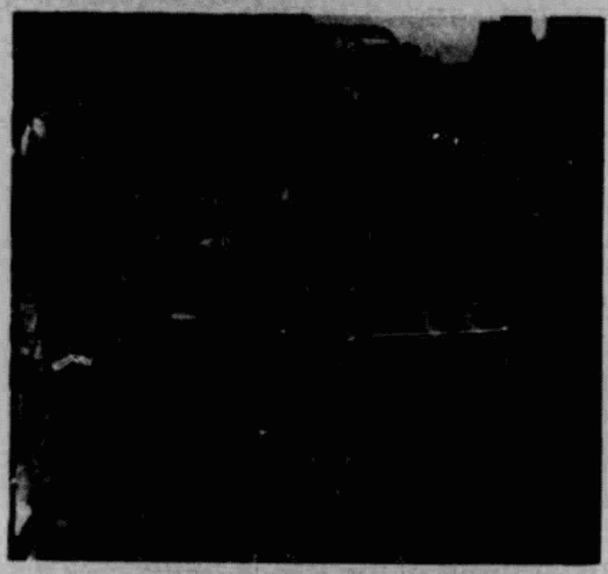
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asbestos-cement sheet machine

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Indonesia—P. T. Harflex Asbes Semen produced a lower profit than the year earlier due to a general downturn in economic conditions and an increase in competition from a number of new manufacturers in the a/c building products industry. The company will continue to make its present main product range of a/c building sheets and moldings and molded products for which there is good future market potential. . . . P. T. James Hardie Indonesia completed the construction of its new a/c building products plant and is building an a/c pipe factory.

Malaysia—As with all world economies, Malaysia suffered some downturn and there were reductions in government spending. United Asbestos Cement Berhad began producing with its new sheet machine in January of this year.

UNITED ASBESTOS INC.

Net income reported by United Asbestos Inc., Montreal, Quebec, for the year ended March 31, 1976, reached $1,869,721. This compares with $5.5-million for the preceding 12-month period and $2.8-million for the calendar year 1971. . . . In the Directors' Report to Shareholders it was noted that the world asbestos demand picture continues to remain bullish to the extent that consumers, particularly for asbestos-cement products, are seeking long-term purchasing contracts. Recent authoritative industry surveys, based on an increased rate of demand of 4.5% annually coupled with diminishing reserves, indicate a short-fall of over 500,000 short tons by 1980. . . . As of January 1, 1976, estimated ore reserves at the Black Lake, Quebec, undertaking (in which United Asbestos receives no less than 50% of the net proceeds) are 100,892,000 tons with an average fiber content of 3.08%. Estimated ore reserves at the Midlothian Mine near Timmins, Ontario, are 30-million tons with an average fiber content of 7.5%. Additional reserves of 120-million tons at Midlothian are indicated at a depth of 1,000 feet. Asbestos content in the ore is based on recovery of 70% a/c grades and 30% short fibers. Some 70% of the Black Lake fibers are in the longer grades which are utilized in brake linings, gaskets, safety clothing and a/c pipe.

Opening the Midlothian Mine—A series of problems was encountered ranging from the lack of skilled personnel, late completion due to construction delays, an extended period of debugging of the complex automatic system during which there were uncovered many design and installation errors, and tune-up during a record cold and snowy winter. All of these problems plus the fact the company is trying out a brand new environmental control system contributed to a situation which left the plant open to attack on the issue of interior working conditions and the outside environment. In spite of the established fact that the air within the mill was cleaner on the average than in any asbestos mill in existence, it was not meeting standards in all areas and the Ontario Government authorities saw fit to halt milling operations on April 12, 1976, and ordered a general clean-up. This was accomplished in two

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weeks and operations were resumed but on a slower basis due to the need for more careful supervision and maintenance of dust control equipment. Company surveys throughout the plant have shown continued improvement and presently most of the plant areas are under the two fiber/cc per 8-hour average. These results have been confirmed by the Ministry of Mines and Natural Resources. In the meantime, modifications for flow sheet improvement for quality and customer requirements are being made and further improvements for correction of capacity deficiencies and manpower training are at hand. In addition a housing development in the nearby town of Matachewan is being executed to alleviate the problem of high labor turnover.

Private Placement—At the Annual Meeting held August 31, 1976, Dr. R. J. Merrill, President and Chief Operating Officer, reported that United Asbestos is making substantial progress on negotiations for a private placement of about $35-million in long-term financing with financial institutions in the U.S. Proceeds are to be used for the Midlothian asbestos project. Dr. Merrill stated the mine is operating at 35% to 40% capacity and management is aiming at a full capacity operation by the fiscal year-end of March 31, 1977.

ASBESTOS STOCK QUOTATIONS

Close—September 21, 1976

Abitibi Asbestos	C$.95
Advocate Mines	C$3.05
Armstrong Cork	28
Armst. Cork (pfd 3.75)	50¼
Asarco	16⅝
Asbestos Corporation	C$30.875
Bendix	41¾
Bendix (pfd 3)	85
Carlisle	14⅞
Cassiar Asbestos	C$5.75
Certain-teed Products	17¾
Charter Conso	pence 126
Colt Industries	50¼
Colt Ind. (pfd 1.60)	26¾
Colt Ind. (pfd 4.25)	70
Conwest	C$3.30
Flintkote	19⅞
F-kote (pfd-A 4.50)	60¾
F-kote (pfd-B 2.25)	28
GAF Corporation	13⅞
GAF (pfd 1.20)	20¼
Gulf & Western	17
G&W (warrants)	4
G&W (pfd 2.50)	37⅛
G&W (pfd 3.87)	81¼
IC Industries	20¼
IC Ind (pfd 6)	90
IC Ind (pfd 3.50)	41¼
Jim Walter Corporation	34
Jim Walter (pfd 1)	12
Jim Walter (pfd 1.60)	37⅜
Johns-Manville	30
Kennecott Copper	33
Maremont	18⅝
McAdam Mining	C$.38
National Gypsum	15⅛
Pathfinder	C$.33
Porter, H. K. (pfd 5.50)	69½
Raybestos-Manhattan	35⅜
Rio Algom	C$33.25
Royal Industries	7⅜
Supradur	Bid 4⅝; Asked 5⅛
Union Carbide	65⅛
United Asbestos Inc.	4
Woodsreef Minerals	C$1.00

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MEN ON THE MOVE

JOHNS-MANVILLE CORPORATION

At a Board Meeting held in New York City in early September, *W. Richard Goodwin* resigned as President, Chief Executive Officer and a Director, effective immediately. The J-M Board cited "irreconcilable policy differences" as the reason for the resignation, clarified later as differences related to style of management rather than any conflict concerning operational direction of the company. Wall Street analysts said the explanation was not surprising as Mr. Goodwin has long been known in financial circles as having a strongly distinctive style that reportedly clashed with the more traditional orientation of the rest of the J-M Directors. . . . Named to succeed Mr. Goodwin as President was *John A. McKinney*, a Director and formerly Senior Vice President-Legal Services and Secretary.

On September 9, Mr. McKinney announced a realignment of J-M executive responsibilities resulting in the following appointments: *Dr. Fred L. Pundsack* as Executive Vice President-Operations and a Director and *Charles J. DeBiase* as Senior Vice President-Production and Technology. Dr. Pundsack had been Senior Vice President of the Research and Development Group and Mr. DeBiase had been Vice President for Production and Engineering. Mr. McKinney noted that the organization changes are designed to strengthen the effectiveness of a newly-formed Management Committee composed of Mr. McKinney, Chairman; Dr. Pundsack; Mr. DeBiase; F. H. May, Jr., Executive Vice President for Finance and Administration; *R. H. Cuje*, Senior Vice President for Corporate Marketing and Growth Planning; and *George W. O'Dair*, Senior Vice President-Finance.

RAYBESTOS-MANHATTAN, INC.

J. A. Kerns, Sales Manager, announced two executive appointments and a territorial reorganization as part of a continuing program to increase the sales effectiveness of the Original Equipment Division of RM Friction Materials Company, a division company of Raybestos-Manhattan, Inc. As a result, the former Chicago Region has been divided into two distinct areas with *Robert D. Mense* as Regional Sales Manager for the new Elmhurst Region and *James P. Hoffman* as Regional Sales Manager for the new Peoria Region. Both gentlemen had been District Managers of the former Chicago Region.

CEMENT ASBESTOS PRODUCTS COMPANY

Bruce Klomfas, Plant Manager, announced the appointment of *Kerry A. Rickert* as General Superintendent of Manufacturing for CAPCO, a subsidiary of Asarco Inc. Mr. Rickert had been a Shift Supervisor for CertainTeed Corporation and has been involved in asbestos-cement pipe production since 1965.

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BIRTHDAY GREETINGS to . . .

J. J. Mangan, President & Managing Director, Hedman Mines Ltd., Timmins, Ontario, November 16.
Gorden E. MacDonald, Vice Chairman, Asbestos Corporation Ltd., St. Louis, Missouri, November 19.
Louis J. Melillo, Operations Manager, Nicolet Industries, Inc., Ambler, Pennsylvania, November 19.
Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Ltd., Johannesburg, Republic of South Africa, November 19.
J. T. Ward, Assistant to the President, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, November 24.
A. J. P. Sabberwal, Managing Director, Asbestos Cement Ltd., a subsidiary of Turner & Newall Ltd., New Delhi, India, November 25.
W. I. Stewart, a Director, Cape Asbestos Insulations (Pty) Ltd., Benoni South, Republic of South Africa, November 25.
David P. Cortright, Marketing Manager, Paper Division, Nicolet Industries, Inc., Ambler, Pennsylvania, November 27.
E. J. Heath, Managing Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, November 27.
Russell L. Pellett, a Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, November 27.
B. B. Stevenson, a Director, Cape Industries Ltd., London, England, November 28.
John G. Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.
Walter A. Cooper, Manager-Environmental Communications, Health, Safety & Environment Department, Johns-Manville Sales Corporation, Denver, Colorado, November 30.
Nicholas Gritzuk, Chairman, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, December 1.
Jules LaPrairie, Manager, Atlas Asbestos Company, Coalinga, California, December 1.
Robert J. Collier, Vice President & Director of Divisional Advertising, Johns-Manville Sales Corporation, Denver, Colorado, December 3.
K. Fred Netter, President, Supradur Manufacturing Corporation, New York City, December 3.
James F. Reis, Product Manager for Asbestos Fiber Sales, Johns-Manville Corporation, Denver, Colorado, December 3.
Frank S. Williams, Product Manager, Southern Asbestos Company, Charlotte, North Carolina, December 3.
Irving F. Moore, President, Atlas Asbestos Company, Reno, Nevada, December 7.
Bernd Simon, Plant Engineer, Cement Asbestos Products Company, Van Buren, Arkansas, December 7.
F. A. Page, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, December 8.
Peter Steen, President, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, December 8.
George W. Townsend, Vice President, Mechanical Packings Group, Garlock Inc., Palymra, New York, December 10.

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C. W. Newton, Managing Director in charge of Mining and Distribution of Asbestos, Turner & Newall Ltd., Manchester, England, December 11.

ALBERT H. FAY—RETIRES

Albert H. Fay, Vice President-Marketing for the Gold Bond Building Products Division of National Gypsum Company, Buffalo, New York, retired August 31, 1976, after 23 years with the company and 40 years of service to the Asbestos Industry.

Mr. Fay joined the sales force of The Flintkote Company in 1936, was a product designer in the development end of the business when Flintkote built its first asbestos plant in 1937, became Product Manager, and in 1950 was promoted to Production Manager, Asphalt Roofing and Asbestos-Cement Products. . . . From 1950 to 1953, while Advertising Manager for Asbestone Corporation, New Orleans, Louisiana, he was instrumental in vastly increasing sales of the firm's a/c siding and flat and corrugated sheets. It was during those years that Asbestone constructed its a/c products plant in St. Louis, Missouri. . . . In 1954, one year after National Gypsum acquired Asbestone, Mr. Fay was named National's Sales Manager for Asbestos-Cement Products. He served as Director of Product Management from 1956 to 1965 and was named Vice President-Marketing in 1966 and Vice President-Research and Marketing in 1969. In 1974 he became Vice President-Marketing in charge of government affairs.

On behalf of Flintkote, Mr. Fay attended the organizational meeting of the Asbestos Cement Products Association, held in 1937 in Philadelphia, Pennsylvania. He served as a Director of ACPA from 1953 through 1962 and as President from 1962 through 1973, when the Association disbanded. . . . He was a charter member of the Asbestos Information Association/North America, representative of National Gypsum, and served as AIA/NA's first President in 1971. From 1971 to 1976 he served on the Board of Directors of the Association and was a member of its Executive Committee.

Among many other activities during his busy career, Mr. Fay was Vice Chairman, National Housing Center Council, National Association of Home Builders; President, National Home Improvement Council; Trustee, Niagara Frontier Housing Development Corporation; Director, Towne Homes, Inc.; and Director, Brand Names Foundation, Inc. . . . He received his Bachelor's and Master's degrees in Architecture at Columbia University, served in the U.S. Navy from 1944 to 1946 and holds the grade of Lt. USNR.

The best way to sum up Mr. Fay's dedication toward progress for the Asbestos Industry is to quote the message inscribed on the lovely silver tray awarded to him last month by the AIA/NA: *"Presented to Al Fay with Sincere Appreciation, Fond Affection and Best Wishes. President 1971-72. Director 1971-76."*

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VALUABLE LITERATURE

ASBESTOS—Colorful brochure issued by the Quebec Asbestos Mining Association; describes the various uses for and chemical properties of Chrysotile asbestos from Quebec; discusses how the mineral is produced and how it creates jobs, aids the economy and serves world markets; gives information on findings from years of research on asbestos and health. [8 pages; free copies available from QAMA, Room 320, 580 Grande Allee Est, Quebec G1R 2K2, Canada]

MINING ANNUAL REVIEW, 1976 EDITION—Authoritative review of the mining industry throughout the world; defines the industry's progress by product, by country and technologically, from prospecting through mining and mineral processing to the production and sale of the refined, marketable product. [US$19.00; 500 pages; order from The Mining Journal Ltd. or through ASBESTOS Magazine]

MIDDLE EAST TRADE LETTER—Newsletter dedicated to trade with the Middle East and North Africa; covers a broad span of information such as prospective joint ventures, rules and regulations, new businesses, large construction and development contracts secured by U.S. firms, companies whose products are available for trade, import/export/trading firms, contracts, surveys, feasibility studies, etc. [US$58.00 per year; issued bi-weekly; contact the Middle East Trade Letter, P. O. Box 3444, Charlotte, North Carolina 28203]

PHOTOCOPIES OF MOST OF THE FOLLOWING ARTICLES ARE AVAILABLE FROM THIS MAGAZINE.

ANTITRUST IMPLICATIONS OF CONVERSION TO THE METRIC SYSTEM—Remarks presented by Assistant Attorney General Thomas E. Kauper, Antitrust Division, U.S. Department of Justice, at the 2nd Annual Conference and Exposition of the American National Metric Council; discusses voluntary conversion to the metric system of measurement and proper preparatory steps to take to avoid running afoul of antitrust laws. [Standardization News, August 1976; a publication of the American Society for Testing and Materials; 5 pages]

A MANUAL FOR DETERMINING ETI ECONOMIC THICKNESS FOR INDUSTRIAL INSULATION—Francis A. Govan, Chairman of the Board of York Research Corporation, gives the concept, methodology and example applications for a manual developed under a U.S. Government grant for the determination of optimal economic thickness for industrial thermal pipe and block insulation. [NICA Outlook, August 1976; a publication of the National Insulation Contractors Association; 2 pages]

ASBESTOS TODAY—A talk by Peter Steen, President of Cassiar Asbestos, at a meeting of the Vancouver Branch of the Canadian Institute of Mining and Metallurgy; summarizes the asbestos/health issue, precautionary measures taken in the past, today's effective dust control technology and asbestos as a prime target in the news media. [Western Miner, March 1976; 2 pages]

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CURRENT IMPACT OF PRODUCT LIABILITY—Paul C. Nelson, of International Harvester Company, identifies various types of product liability lawsuits, methods of defense and the search for an expert witness. [Quality Progress, August 1976; 6 pages]

RECOMMENDED WORK PRACTICES—Five manuals published by the Asbestos Information Association/North America include: "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 each plus postage; order from AIA/NA or through ASBESTOS Magazine]

ASBESTOS: A REMARKABLE MINERAL FIBER—Reference book on asbestos by Marion S. Badollet; presents technical data on asbestos minerals and on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [$20.00 per copy; order from the author or through ASBESTOS Magazine]

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]

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U.S. 3,959,208—A friction composition for brake linings, clutches or the like is formed from a mixture of 20-80% by weight of A-stage phenol-formaldehyde resin, 5-40% of asbestos, up to 30% of kaolin or other finely divided filler and 1-20% of magnesium aluminate spinel or zinc aluminate spinel as a friction modifier to improve the coefficient of friction; Y. Baskin; assigned to Ferro Corporation, May 25, 1976; 5 pages.

U.S. 3,963,501—A compound for inhibiting misting of printing ink on high-speed presses is produced by shearing a mixture of Chrysotile asbestos fibers of optimum size and an organic vehicle so as to distribute asbestos micro-fibers through the vehicle; N. G. Zalesky; assigned to Garlock Inc., June 15, 1976; 4 pages.

U.S. 3,963,850—An adhesive which will not flow through porous substrates readily comprises asbestos fibers or floats, expanded silica and a carboxylated styrene-butadiene latex adhesive; R. C. Doss & F. B. Jones; assigned to Phillips Petroleum Company, June 15, 1976; 3 pages.

U.S. 3,965,284—In the chemical opening of asbestos, Chrysotile bundles are physically shredded, the shredded material dispersed in an aqueous soluble vinylic polymer polyelectrolyte and the resultant encapsulated fibrils treated with an inorganic or volatile organic base to insolubilize the polyelectrolyte coating; M. Xanthos & R. T. Woodhams; assigned to Canadian Patents & Development Ltd., June 22, 1976; 8 pages.

U.S. 3,966,576—Electrophoretic deposition of a thin asbestos diaphragm for use in chloride brine electrolysis; an electric potential is impressed through a solution containing Chrysotile asbestos and an anionic surfactant whereby the fibers are deposited on a metal cathode; W. W. Carlin; assigned to PPG Industries, Inc., June 29, 1976; 4 pages.

U.S. 3,967,012—A sealing and insulating coating for concrete or metal comprises a thermally coagulable mixture of styrene-butadiene rubber latex, colloidal polystyrene, polyurethane, natural rubber latex, polyethyleneglycol ether, polyvinyl methyl ether, asbestos fiber or floats and an anti-aging stabilizer; J. Ebner; assigned to Gundermann GmbH & Co. KG, June 29, 1976; 3 pages.

U.S. 3,967,043—The resistance of asbestos cloth, rope, tape, etc., to dusting is improved by immersing it in a reaction mixture of formaldehyde, melamine or urea and polyethyleneoxide or polyvinyl alcohol, and drying the article; T. Otouma & M. Nakamura; assigned to Nippon Asbestos Co. Ltd., June 29, 1976; 5 pages.

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CALENDAR OF EVENTS

ADHESION MEASUREMENT—Symposium on the adhesion measurement of thin films, thick films and bulk coatings; sponsored by the American Society for Testing and Materials; ASTM Headquarters, Philadelphia, Pennsylvania, *November 2-4.*

ASTM COMMITTEE MEETINGS—The following ASTM Committees will meet in *November:* G-2 on Erosion and Wear, ASTM Headquarters, Philadelphia, Pennsylvania (*5*); E-41 on General Laboratory Apparatus, ASTM Headquarters, Philadelphia, Pennsylvania (*8-9*); E-38 on Resource Recovery, Sheraton Inn, Des Moines, Iowa (*8-10*). Committees to meet at the Hilton Hotel, Denver, Colorado, include: D-30 on High Modulus Fibers and Their Composites (*15-17*); E-34 on Occupational Health and Safety Aspects of Materials Physical and Biological Agents (*15-17*); E-6 on Performance of Building Construction (*16-18*).

TOXIC SUBSTANCES IN THE AIR ENVIRONMENT—Specialty Meeting of the Air Pollution Control Association; Hyatt Regency Hotel, Cambridge, Massachusetts, *November 8-9.*

THE LUNG AND THE ENVIRONMENT—Workshop sponsored by The Johns Hopkins University School of Hygiene and Public Health; Baltimore, Maryland, *November 8-12.*

FIBROUS STRUCTURES FOR GAS AND LIQUID FILTRATION—Symposium of The Fiber Society, Inc.; Princeton, New Jersey, *November 9-10.*

POLLUTION ENGINEERING—International Congress and Exposition produced by Ciapp & Poliak; Convention Center, Anaheim, California, *November 9-11.*

COMPOSITE MATERIALS—Symposium of ASTM Committees D-30 on High Modulus Fibers and Their Composites and E-9 on Fatigue; Hilton Hotel, Denver, Colorado, *November 15-16.*

OCCUPATIONAL HEALTH HAZARDS—Training Course of the Industrial Health Foundation on the recognition, evaluation and control of occupational health hazards; included in the curriculum are gas and vapor sampling, particulate sampling, occupational health toxicology, hazardous materials and occupational noise; Hospitality Motor Inn, Pittsburgh, Pennsylvania, *November 15-17.*

MINERAL MANAGEMENT AND ENGINEERING—Seminars at McGill University, Montreal, Quebec: People and Work in the Mineral Industry, *November 15-17;* Mineral Processing Systems, *November 22-December 3;* Economic Analysis for Mine Operators, *December 6-8.*

BUILDING AND CONSTRUCTION—Exposition/Conference of The Producers' Council; McCormick Place, Chicago, Illinois, *November 17-19.*

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METRIC IMPLICATIONS FOR BUSINESS AND INDUSTRY—Conferences sponsored by Pennsylvania State University: *November 19* and *February 25* at the Hospitality Motor Inn, Pittsburgh, Pennsylvania; *November 22* at the PSU Campus, York, Pennsylvania.

CALLS FOR PAPERS—ASTM has issued a Call For Papers for its Symposium on Technical Standards in Products Liability Litigation to be held May 1977 and its Symposium on Pedestrian Friction to be held June 1977. Titles and abstracts should be submitted by *December 1*.

BLASTING TECHNOLOGY—International Symposium organized by the Chamber of Industrial Management for Upper Austria; Linz/Donau, Austria, *December 1-3*.

TOXIC SUBSTANCES/LAW AND REGULATIONS—Seminar produced by Government Institutes, Inc.; Twin Bridges Marriott Hotel, Washington, D. C., *December 9-10*.

NEW CONCEPTS OF OCCUPATIONAL MEDICINE UNDER OSHA—Special Course for industrial physicians sponsored by the Industrial Health Foundation; Dutch Inn, Lake Buena Vista, Florida, *December 13-17*.

ISRAELI ENGINEERS AND ARCHITECTS—4th World Congress of the Association of Engineers and Architects in Israel; Hilton Hotel, Tel Aviv, Israel, *December 13-20*.

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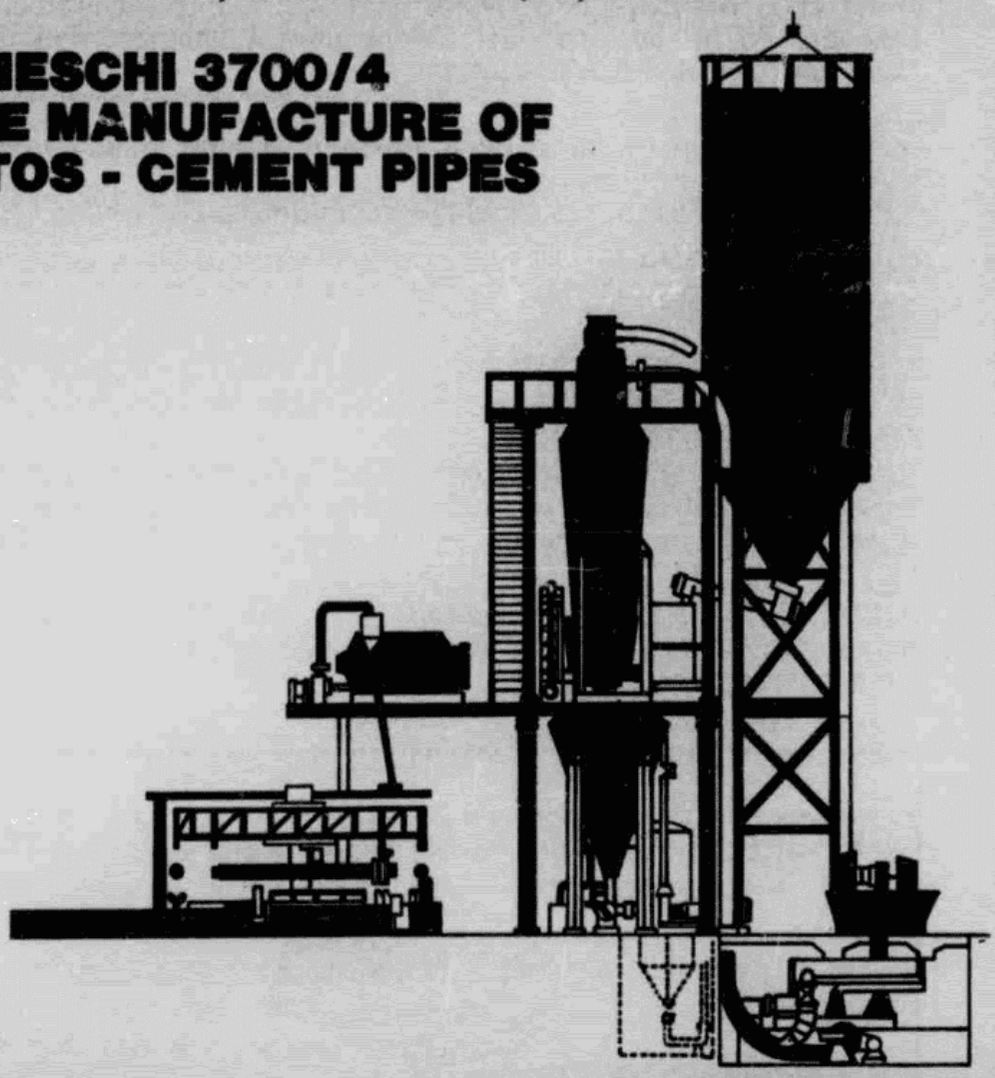
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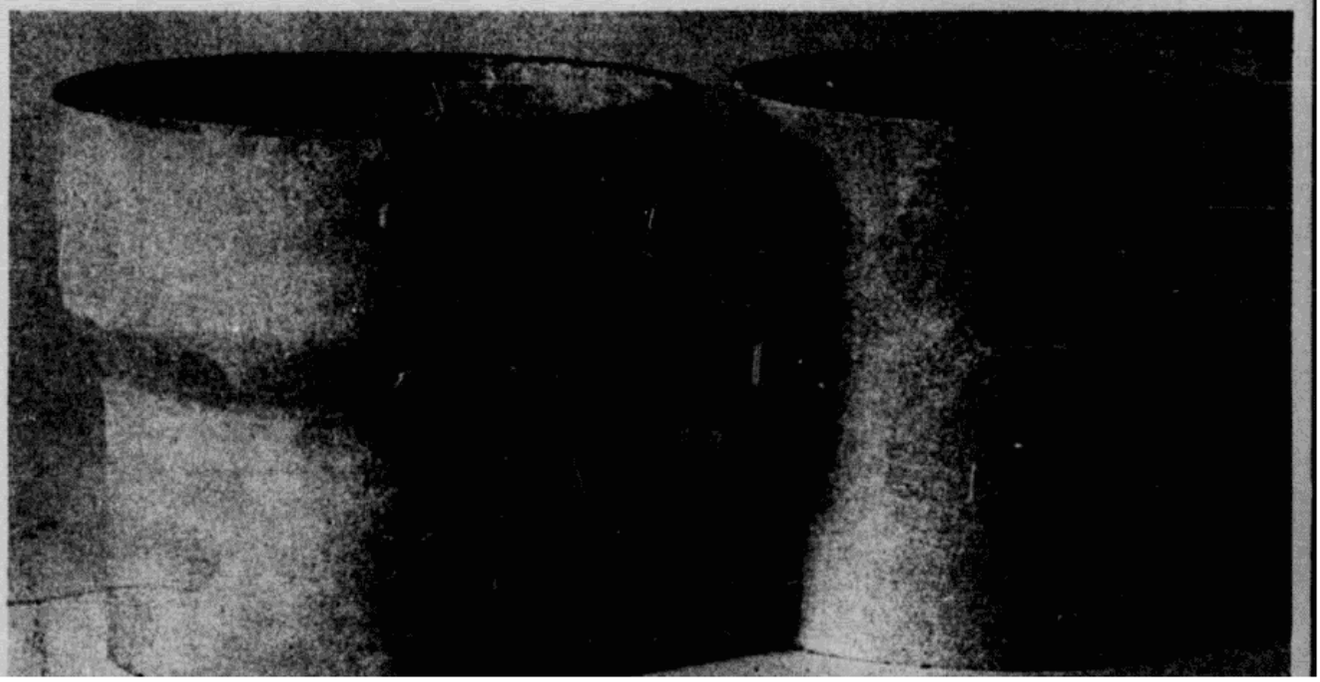
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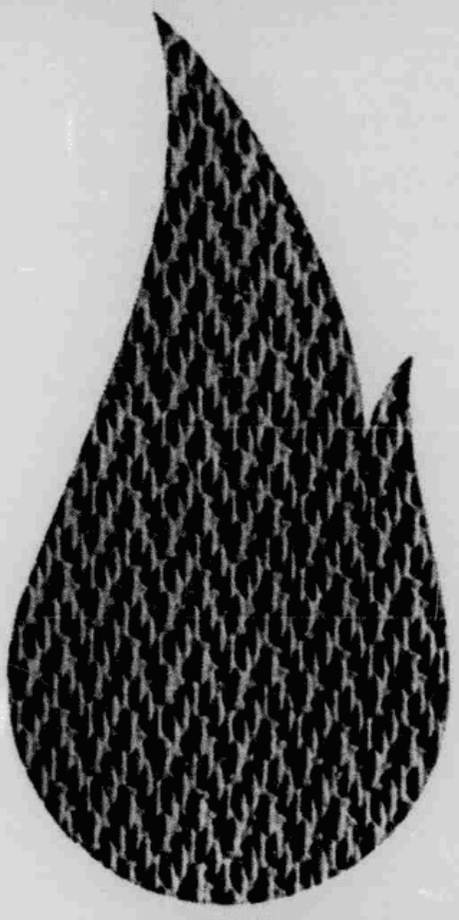
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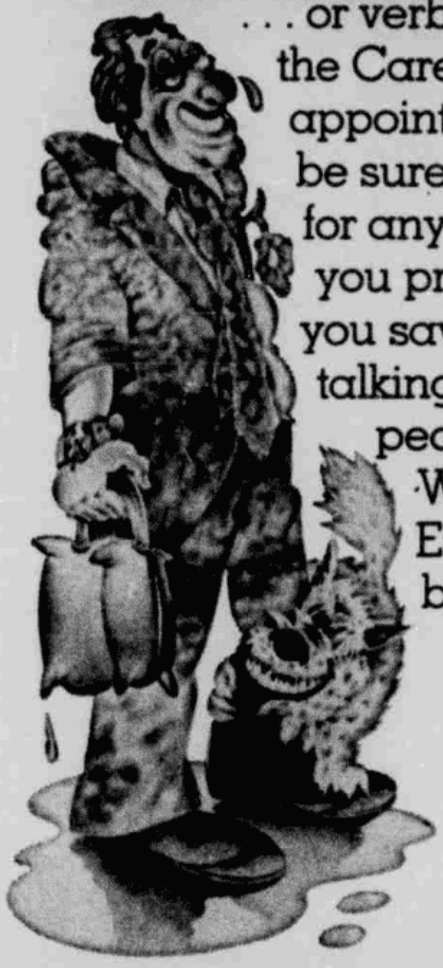
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