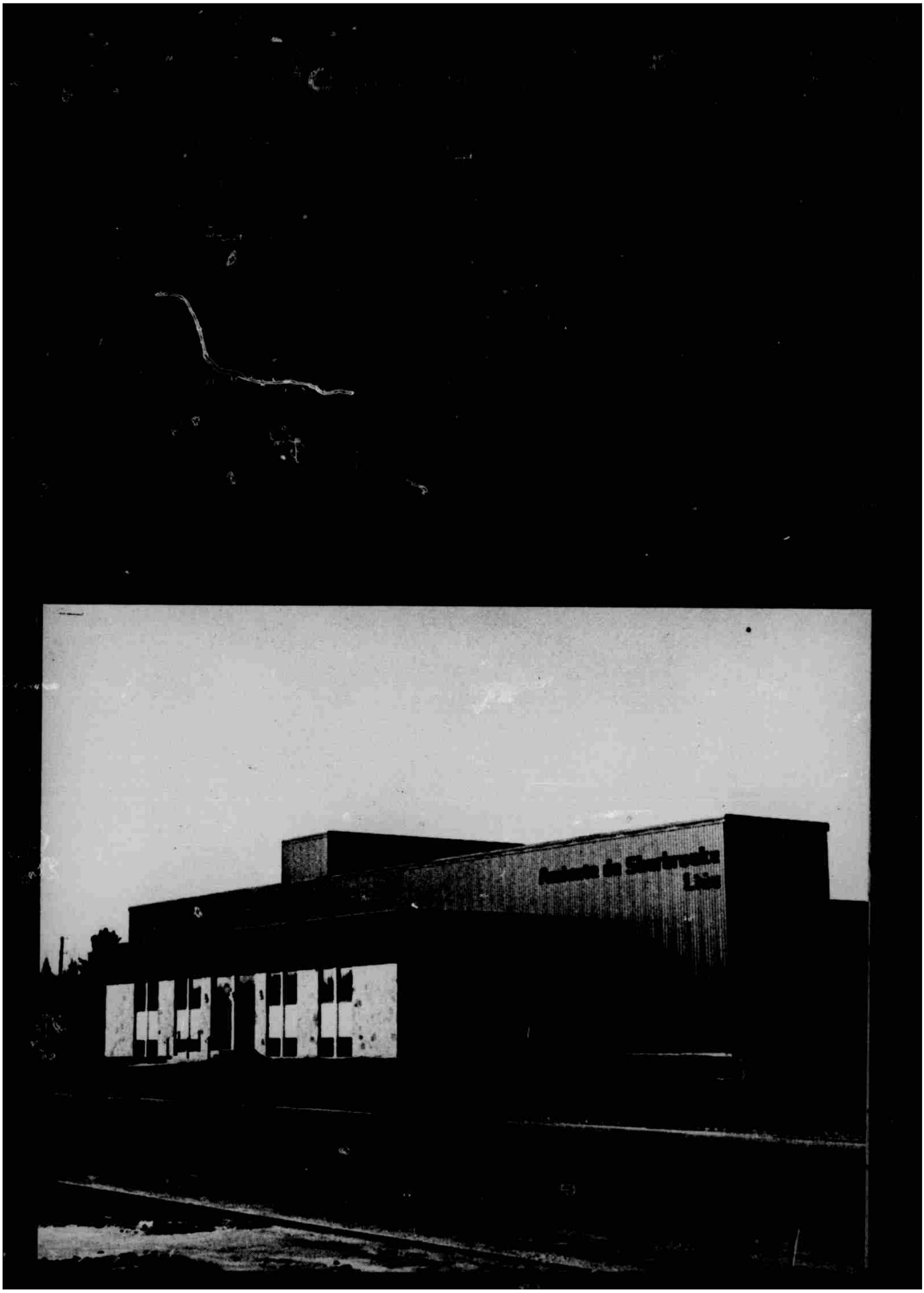


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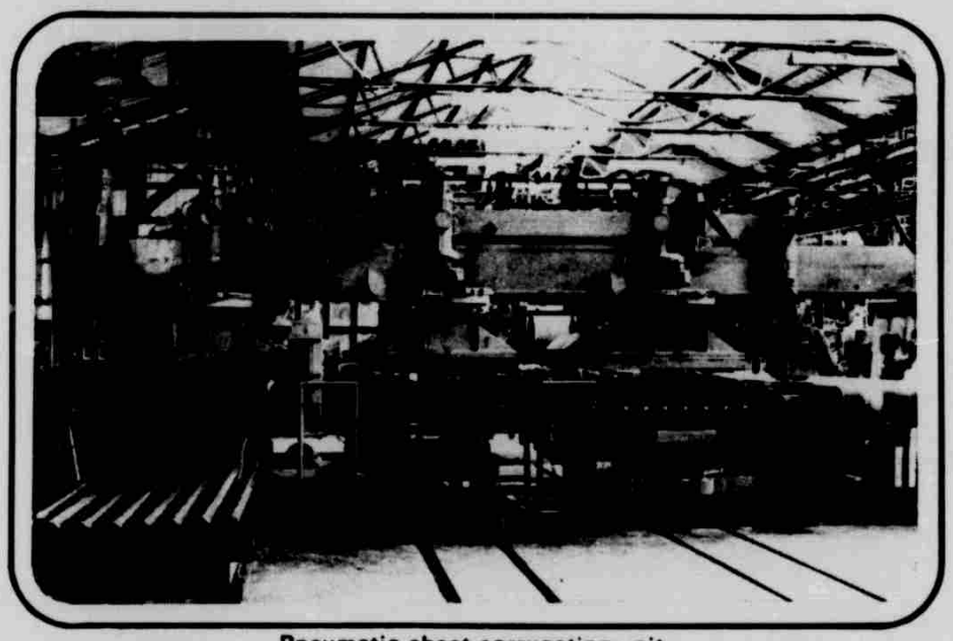
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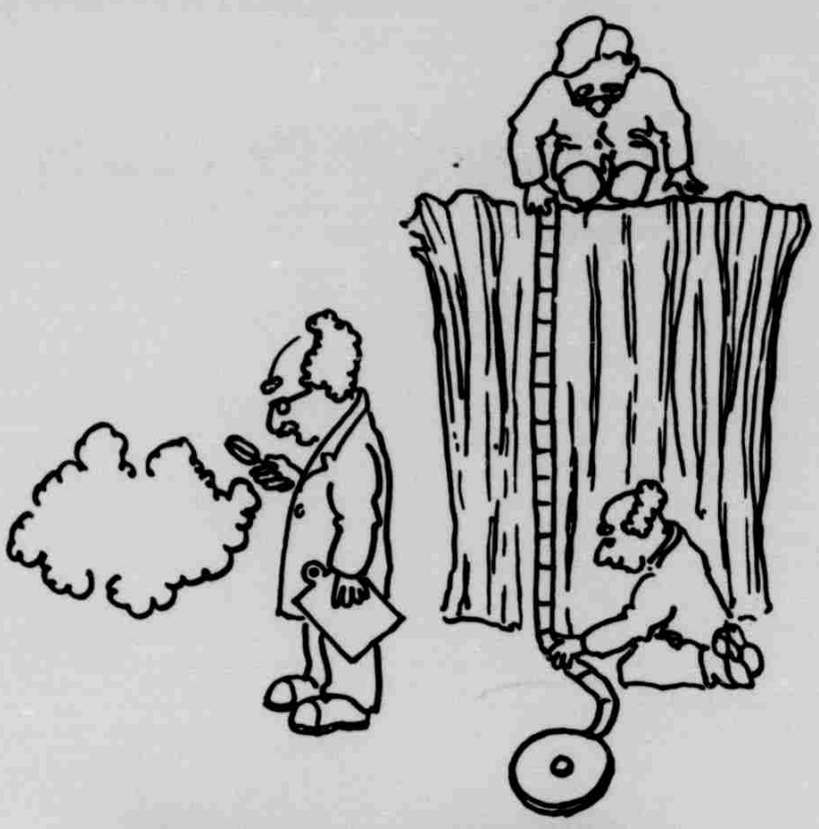
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IMPROVEMENTS IN SUCTION BOX COVERS

Robalit 61 suction box covers for asbestos cement machines as manufactured by Leripa, of Vienna, Austria, were described in the August 1972 issue of ASBESTOS. The following article, based on a lecture given by Dr. R. Poeschl of Leripa at the Elof Hansson Symposium in Durban, Republic of South Africa, in March 1976 outlines developments in the manufacture and use of Robalit 61 covers since that time.

Since the introduction of Robalit 61 suction box covers for use on paper machines and their subsequent adaptation to asbestos cement machines, they have been placed in service in over 2,500 paper and asbestos cement plants in 90 countries. As might be expected, experience in operation has led to changes in cover design and methods of manufacture which have resulted in substantially improved operation and extended service life for covers made from this unique plastic material.

As noted previously, Robalit 61 is a form of polyethylene having an ultra-high molecular weight and incorporating molybdenum disulphide as a lubricant. These characteristics and a hardness of Shore 78-80 result in a product having an extremely low coefficient of friction combined with excellent wear resistance. The molded product is not subject to cracking or splintering, it can withstand temperatures up to 130°C and it is unaffected by any chemicals associated with the asbestos cement process.

The basic raw material is purchased in granular form. Experience has shown that the most satisfactory forming process is compression molding. Standard presses form sheets measuring 1 x 2 meters. Since asbestos-cement pipe machines require covers longer than 2 meters, it is necessary to weld such sheets together to obtain one-piece covers of sufficient length for these machines. The welding process causes internal stresses in the finished covers and also alters the molecular structure of the polyethylene. Welded covers tend to warp and wear rapidly at the welds and hence roughen up the felts.

To avoid these problems, Leripa developed its own sintering presses capable of molding sheets 10 meters long by 1.2 meters wide. From these sheets can be made one-piece, weldless covers to suit any presently used machine. These presses operate at high pressures under precisely controlled temperatures

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and with long cycles to permit slow and complete cooling of the sheet under full pressure. The result is a product which is highly compacted, fully homogenized and free from internal stresses.

Starting with flat sheets from the presses it is possible to supply suction box covers with any desired pattern of perforations. It has been firmly established that a symmetrical herringbone pattern of slots is by far the most suitable for the main (wet) boxes of asbestos cement machines. The pattern can be designed to provide any desired open area, making it possible to tailor the suction box cover to provide the required air flow through the felt at a predetermined vacuum. For example, a wide herringbone pattern with relatively great open area per unit length is suitable for sheet machines where the length is limited. On pipe machines, due to their greater width, total open area must be limited by reducing the size of the slots forming the herringbone pattern, by using a single longitudinal slot, or by using a combination of slots having a total open area compatible with the capacity of the machine's vacuum pumps.

Robalit 61 is also finding use as covers for felt conditioner and auxiliary (inverted) boxes, wear strips on felt knocker bars and doctor blades for continuously cleaning felt guide rolls. It has also been used as a single cover plate to replace the rollers in roller boxes and achieves the same reduction in drag for which roller boxes were originally adopted. Wherever it has been applied it has demonstrated an ability to reduce felt wear and driving power and to frequently result in appreciable production increases.

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COMPANIES & PRODUCTS

GARLOCK OF CANADA TEXTILE MILL

A 40,000-square-foot asbestos textile mill has been built in Sherbrooke, Quebec, by *Garlock of Canada Ltd.* The mill went "on stream" in February of this year, was officially opened April 23, 1976, and has a production capacity of over 2-million pounds a year. All of the needed raw materials are drawn from local asbestos mines. In attendance at the formal opening were representatives of Colt Industries, Inc. (the parent company), Garlock and Federal and Provincial Governments and local dignitaries.

The mill is a joint venture between Garlock of Canada and the Government of Quebec. According to R. B. Pilmer, President of Garlock of Canada, the design of the mill incorporates the most advanced technology available today and enables it to successfully operate below the two-particle limit in all operating departments. In designing the dry process facility, Garlock started with pollution control equipment and, in effect, built a structure and installed equipment around the pollution control system.

A substantial portion of the output of the Garlock mill will be consumed internally and the remainder will be sold in the North American market in the form of yarn and cloth. By mid-1976 the mill will be operating on a three-shift basis with approximately 70 employees.

A photograph of the new asbestos textile mill at Sherbrooke appears on the front cover of this issue of ASBESTOS.

RHEINSTAHL NOW PART OF THYSSEN

By resolution passed at a recent General Meeting of *Rheinstahl AG*, Bielefeld, West Germany, the name of the company has been changed to *Thyssen Industrie AG* to indicate its affiliation with the Thyssen Group of Companies. As the manufacturing center of the Thyssen Group, the former Rheinstahl is now operating under the firm of Thyssen Umformtechnik/Bergbautechnik, with factory divisions located at Duisburg, Bielefeld and Remscheid. A variety of moulds for the asbestos cement industry is included among the company's versatile range of industrial activities, capital goods and client-oriented services. Since the beginning of this year the firm has been producing profiled sheets over 9.000 mm long, without welding. According to the company, this is the first time anyone has offered sheets of such a length made in one piece.

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VAG TO MAKE WALLBOARD

The Planning Commission of Morrisville, Vermont, has endorsed the plans of *Vermont Asbestos Group* to build a plant to produce a new type of wallboard for the general construction industry. The project must also be approved by the U.S. Environmental Protection Agency, the State Health Department and the VAG Board of Directors. Morrisville was selected because of its available siding on the St. Johnsbury and Lamoille County Railroad. The plant is expected to be in operation before the end of this year and to create more than 60 jobs at the outset for residents of Lamoille County which has the highest unemployment rate in Vermont. Research on the new wallboard has been underway for over a year. The manufacturing process makes use of VAG's asbestos tailings.

UNIDO SERVICES

The *United Nations Industrial Development Organization* regularly offers information on industrial opportunities and on technologies adapted to developing countries. Information on the following items is available from UNIDO Newsletter, P.O. Box 707, A-1011 Vienna, Austria: a technology to recycle asbestos-cement factory waste (Reference #ACE-58); and data concerning the search by a company in India for financial and/or technical collaboration for the construction of a plant to produce 30 tons per day of various kinds of insulation paper (Reference #95.3).

NEW LINE FROM SOUTHERN

In addition to cloth, *Southern Asbestos Company*, Charlotte, North Carolina, has expanded its CLEANGARD process to include asbestos cord, tape, rope, wick and tubing. The textiles are available in a variety of bright colors to identify specific uses. Examples are the selection of bright orange for maintenance cloths and the adoption of blue and green by the safety clothing industry for protective garments and gloves.

CERTAIN-TEED CHANGES NAME

At the Annual Meeting of *Certain-teed Products Corporation*, Valley Forge, Pennsylvania, shareholders approved an amendment to the corporation charter changing the name of the firm to *Certain-teed Corporation*, effective May 28, 1976.

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THRU THE ENVIRONMENTAL MAZE

HEALTH REPORT FROM CANADA

Late last month Canada's Health Minister released a report aimed at protecting the health of at least 20,000 Canadian workers exposed to asbestos dust. The report was compiled by a group of Federal and Provincial health officials which made 15 recommendations to reduce the incidence of diseases related to asbestos exposure. The recommendations were concerned with smoking, protective clothing, respiratory devices, work practices, warning labels and the establishment of a limitation of two fibers per cubic centimeter of air at worksites. The two levels of government were urged to set up educational programs for workers, employers, medical personnel, union officials and the general public on the subject of asbestos health hazards. The report notes there is a risk not only to workers but to residents near asbestos processing and textile mills, to individuals living by roads on which asbestos is trucked and to inhabitants of houses which contain asbestos insulation.

EEC PROPOSAL

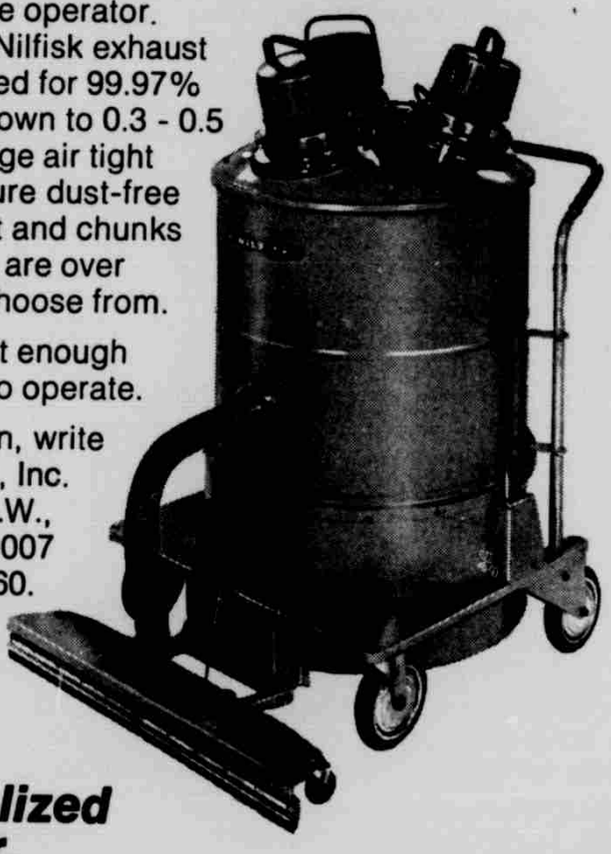
As part of its action program on the environment, the European Economic Community prepared for submission to the Council of Ministers a proposal for a directive on waste disposal. Laws regarding the disposal of toxic waste already exist in most Member States of the EEC but there is great variation among them. The proposal is intended as a step toward harmony. Included in the proposal are requirements that Member States take the necessary measures to dispose of waste without endangering human health and without risk to water, air and soil. Waste is defined as any residue from a production or utilization process. The definition does not attempt to classify types of waste or distinguish between toxic and non-toxic materials. It does, however, include a requirement for authorization by the cognizant authority before waste is treated, stored or dumped. Further, it is proposed that the permission be subject to conditions stipulating type and quantity of waste, method to be used and precautions to be taken.

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FRANCE SETS DUST LIMITS

The French Caisse Nationale de Securite Sociale (CNSS) produced a code of arrangements for health and hygiene where workers may be exposed to risk from asbestos dust. As a normal procedure, CNSS arranged that the measures be adopted for a one-year experimental period. After a study of the trial experience, which will take place in the Nantes Region, the measures could be extended to all areas covered by the Social Security Code. A technical note dealing with the limits of asbestos dust concentrations in work places and applicable methods of measuring has been published by the National Institute of Research and Health in collaboration with the Chambre Syndicale de l'Amiante. The limit values are similar to those established in the United Kingdom and in accordance with the sampling methods developed by the U.K. Asbestosis Research Council.

HOLLAND DRAFTS RULING

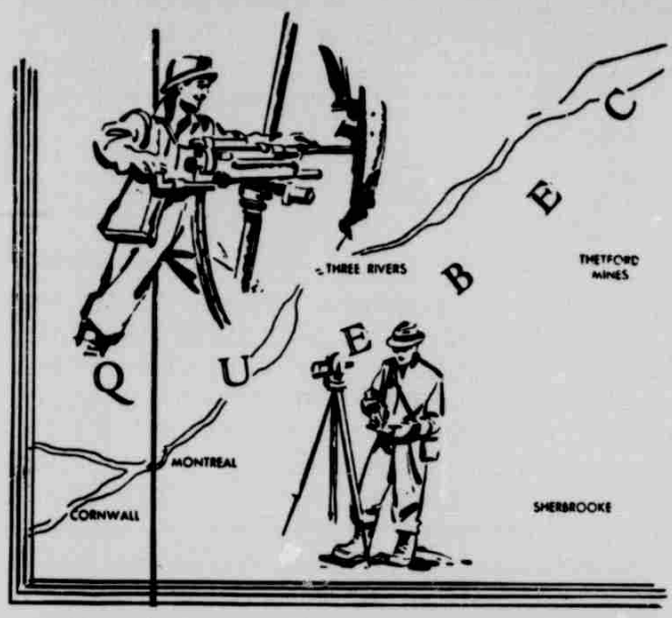
Objections to certain aspects of the proposed Dutch Asbestos Regulations have been raised by the Asbestos Information Committee/Benelux to the Social Economic Council-Labour Legislation Committee at the Hague. The draft regulations are based on a system of prohibition subject to appeal, meaning that permission may be granted to manufacturers to start or continue manufacturing if the Department of Labour is satisfied with the measures for control which the firm is implementing or proposing. AIC/Benelux points out the impossibility of any basic planning for future investment in the face of uncertainty as to the granting of dispensations. Other objections were presented including the adverse effect on constructive efforts to establish effective control and the apparent disregard in the regulations of current views held by international medical and scientific experts on the feasibility of safely using asbestos materials.

ISI FORMS ENVIRONMENTAL COMMITTEE

In the wake of increasing industrialization and urbanization, standards and standardization have been playing a vital role in tackling the problems of air, water and noise pollution. Conscious of its responsibility, the Indian Standards Institute entered the field over a decade ago and now has available a series of standards covering various aspects of measurement, sampling and testing, tolerance limits, terminology, codes and equipment

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specifications relevant to the efficient and safe disposal of industrial and municipal wastes and effluents. A culmination of this endeavor is the recent constitution by ISI of an Advisory Committee for Environmental Protection to ensure proper coordination between pertinent committees and agencies. [ISI Bulletin]

POLITICAL PRESSURES IN SWEDEN

Political pressures continue for the most extreme application of the new Swedish Asbestos Regulations, issued during the latter half of last year. It is feared that these pressures may make it virtually impossible for the manufacture of asbestos-cement products to continue in Sweden. An adverse impact on the import of vital asbestos-containing materials is also envisioned. At the request of the Swedish Asbestos Information Group, a delegation representing the International Asbestos Standing Committee, supported by medical and other experts from Germany and the United Kingdom, visited Sweden last October to discuss occupational and environmental health problems associated with asbestos with Swedish authorities and other interested parties. While it appears the exchange of data effected some moderation of the views of those present it is doubtful whether the political pressure for a more extreme approach will be successfully resisted. The view has been expressed that only friction material makers will be regarded as indispensable and then only under most stringent and costly controls. This Magazine received notification from Skandinaviska Eternit AB, Lomma, that due to the new asbestos regulations in Sweden the company will unfortunately have to close down during the course of this year.

U.K. ASBESTOS STUDY

A major review of health risks from asbestos is to be carried out by a top-level Committee in the United Kingdom. It is eventually to make recommendations covering all risks from asbestos including its release into the working and general environments. The Committee could either satisfy itself that present safeguards are adequate or recommend improvements. The composition of the Committee is to reflect a wide range of scientific, medical and practical expertise and is to be representative of industry.

(The above items concerned with asbestos and health in the European Economic Community, France, Holland and Sweden are based on data which appeared in News Letter No. 1, issued November 1975 by the International Asbestos Information Conference Standing Committee.)

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MARKET CONDITIONS

GENERAL BUSINESS

Practically all signs point to a continuing, moderately paced recovery in general business. The Government's index of leading economic indicators portends further improvement in the economy and statistics used to measure actual performance confirm that the rebound has proceeded pretty much on schedule. However, there are some cross-currents at work which are still causing many businessmen to exercise considerable restraint in setting their courses of action for the immediate future and for the longer term.

For example, surveys incidate the rate of increase in consumer confidence has recently slowed and this could presage a leveling off in retail sales which have been the bellwether of the business recovery thus far. New car sales continue at a healthy pace but the strike of rubber workers against the "big four" tire makers promises to be of long duration and could affect car builders' ability to deliver at present rates. The terms on which this strike is settled could influence coming negotiations in other industries and hence may serve as a measure of the probable inflationary effects of labor adjustments for the balance of the year. The greatly improved profits of the auto companies offer an inviting target for the auto workers union and a strike against one of the manufacturers some months from now seems quite likely.

On the inflation front, the Federal Reserve Board has taken some steps to slow the growth of the money supply after the sharp gains of April and early May. As a result, short-term interest rates have risen and banks' prime rates have also increased. Despite protests from the more liberal elements in Congress, the Fed seems determined to prevent a resurgence of inflation. Thus far, the slight tightening of the credit reins has not appreciably dampened the economic recovery and it is difficult to fault the Fed's policy when we consider the fact that we are still experiencing a basic inflation rate of around 6% per annum. A plus factor in the inflation picture is the fact that the OPEC nations decided to make no increase in the price of crude oil for the remainder of 1976.

Building contract awards are holding steady due to continuing growth in residential construction, particularly in the area of single-family housing but, thus far, the widely anticipated housing boom has not materialized.

Congress is considering numerous changes in the tax laws to ensure continuation of the economic recovery and, coinci-

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dentally, to spread the tax load "more equitably." It seems certain that some previous tax cut provisions will be extended but the revisions will be subject to so many compromises that their size and shape is unpredictable at this time.

The Presidential primaries are attracting much attention. Mr. Carter has an impressive lead among the Democrats but Messrs. Ford and Reagan are running a very close race on the Republican side. None of the candidates has come forth with anything resembling a "platform" in the true sense of the word. However, results so far indicate the public is disenchanted with big Government as exemplified by Washington, D. C., and is looking for new faces rather than brand new policies. There is an apparent antipathy toward big spending and extreme liberals in politics which bodes well for the future of the Country regardless of who finally wins the Presidential election.

MOTOR VEHICLE FACTORY SALES

Year 1975—Motor vehicle factory sales from plants in the *United States* totaled 8,985,012 for the Year 1975 against 10,058,569 for the prior year. The breakdown for the latest year is 6,712,852 passenger cars (down 618,404) and 2,272,160 trucks and buses (down 455,153). Factory sales from plants in *Canada* totaled 1,433,310 in 1975 against 1,548,342 in 1974.

First Quarter 1976—Sales from *U.S.* plants amounted to 2,880,549 during the first three months of 1976 compared with 1,767,126 in the like 1975 period. The breakdown for the latest three months is 2,163,897 passenger cars (up 869,478) and 716,652 trucks and buses (up 243,945). *Canadian* factory sales totaled 421,703 from January-March 1976 against 335,085 for the first quarter of 1975. [Motor Vehicle Manufacturers Association of the U.S., Inc., Detroit, Michigan]

UPDATE FROM DODGE/SWEET

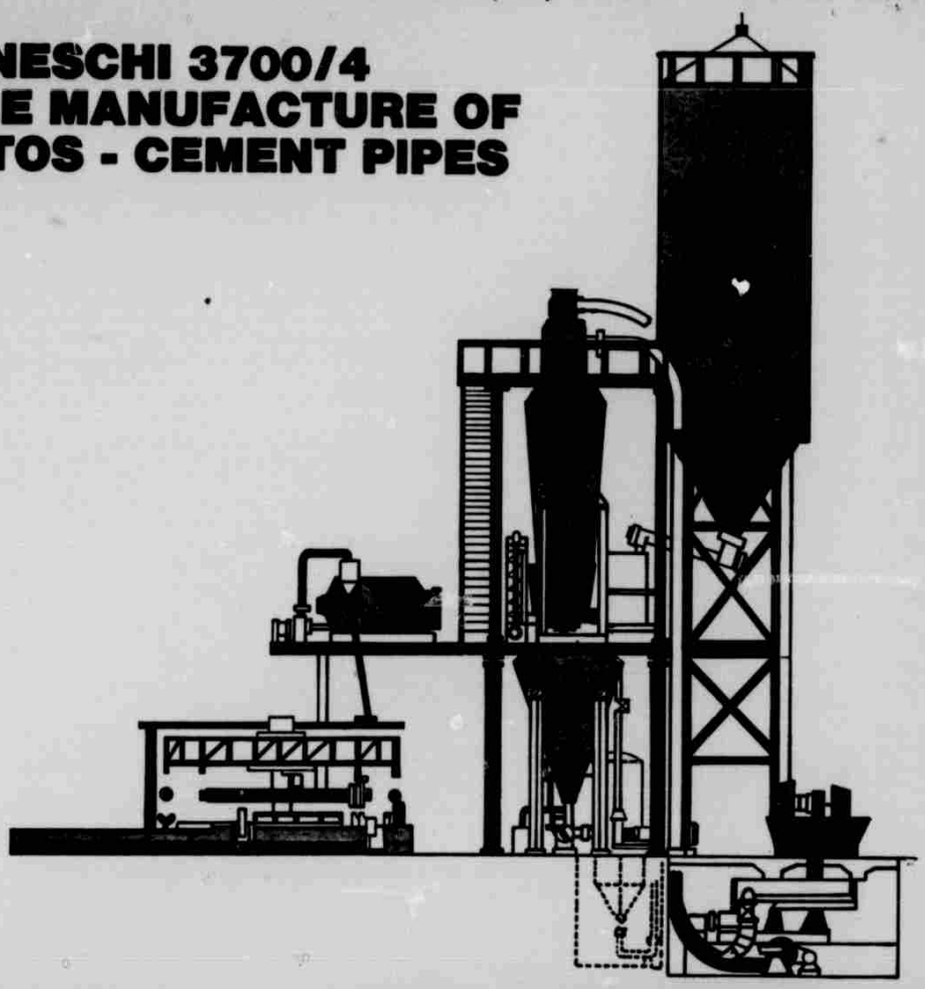
The construction market will undergo a number of significant changes this year as the economy continues to move from recession to recovery, it was reported by McGraw-Hill Information Systems Company. According to the latest update of the *1976 Dodge/Sweet's Construction Outlook*, total construction contract value in 1976 will advance 12% to $102.5-billion with almost all of the increase due to housing.

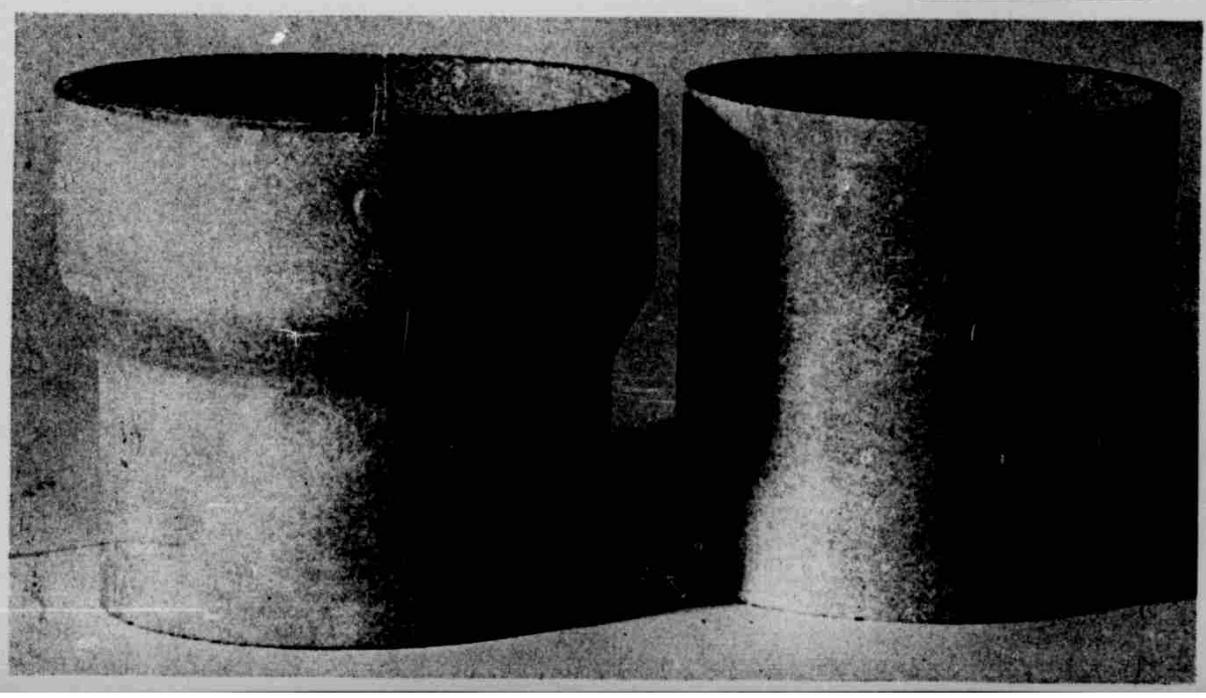
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PRODUCTION—IMPORTS—EXPORTS

AUSTRALIAN A-C SHEET PRODUCTION

Production of non-acoustic, asbestos-cement sheets for the *Year Ended June 1975* totaled 42,156,000 square meters. Comparable output for the three prior years is: 44,128,000 square meters to June 1974; 39,802,000 square meters to June 1973; and 36,647,000 square meters to June 1972. . . . A-C sheet production for the *Three Months Ended September 1975* amounted to 10,228,000 square meters, 2.35-million square meters less than the like quarter a year earlier. [Australian Bureau of Statistics, Canberra]

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 127,188 short tons in *February 1976* and 162,345 tons in *March 1976*. The cumulative total for the *First* Quarter of 1976 was 411,720 tons: 324,194 tons from Quebec plants and 87,526 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first three months of 1975 was 318,651 tons. [Statistics Canada, Ottawa]

SOUTH AFRICAN OUTPUT & EXPORTS

Production of asbestos for the *Year 1975* totaled 354,710 metric tons, 21,438 tons more than in the prior year. The breakdown for 1975 is: 88,411 tons of Amosite; 1,912 tons of Anthophyllite; 99,660 tons of Chrysotile; and 164,727 tons of Cape Blue. . . . *Exports* for the *Year 1975* were valued at R86,805,680, ahead R35-million over 1974. By variety of asbestos, the values for 1975 are: R25,974,773 for Amosite; R208,036 for Anthophyllite; R10,454,554 for Chrysotile; and R50,168,317 for Cape Blue. [Department of Mines, Johannesburg]

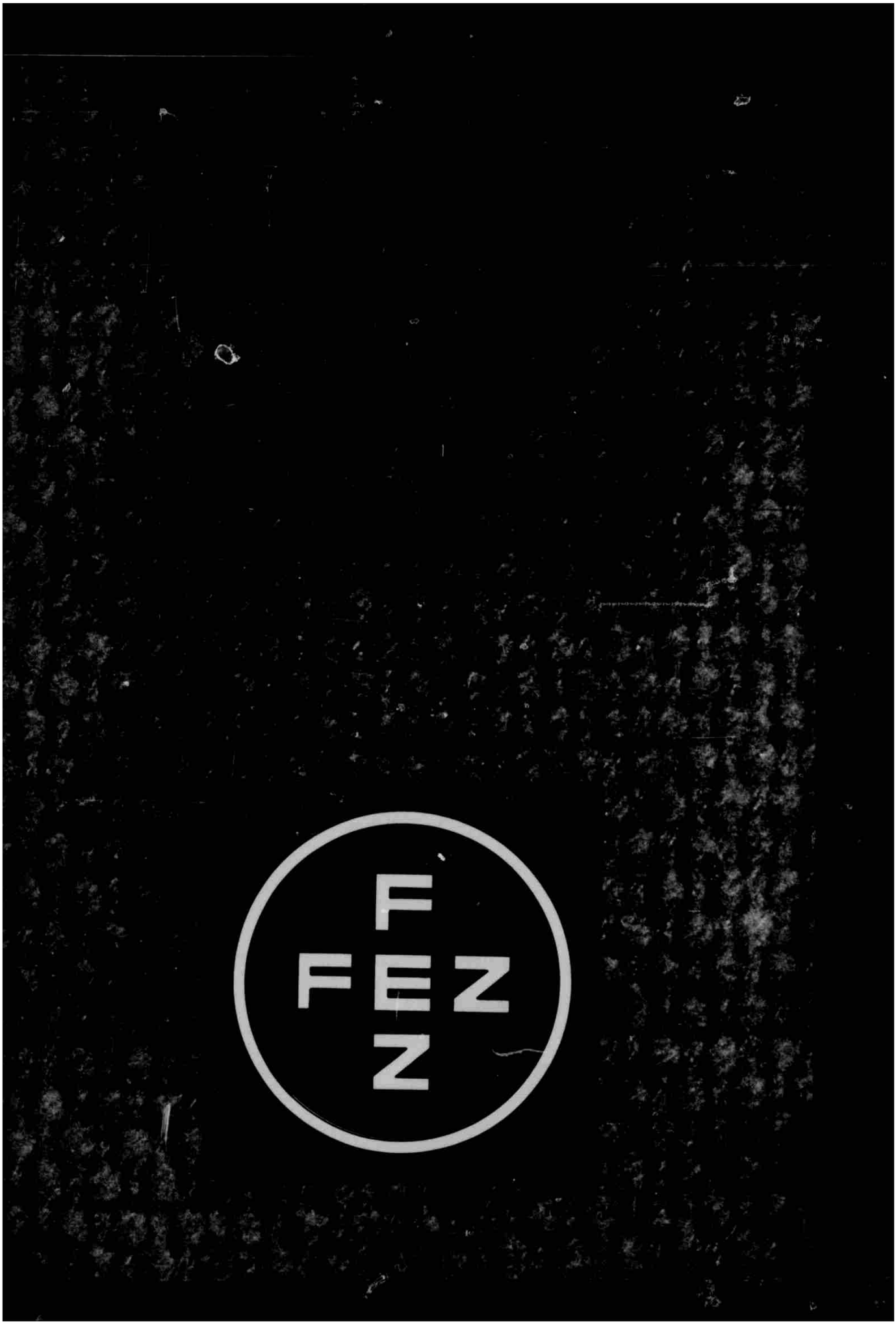
TAIWAN ASBESTOS STATISTICS

During the *Year 1975*, Taiwan *produced* 1,737 metric tons of asbestos compared with 2,957 tons in 1974 and 5,308 tons in 1973. . . . From *January-November 1975* Taiwan *exported* 7.5 metric tons of asbestos and *imported* 11,355 tons. Taiwan also exported some woven and compressed asbestos cloth, tapes, joint sheetings, shingles and pipes. [Department of Mines, Taipei]

GSA STOCKPILE AWARDS

On May 11, 1976, 100 short tons of Crocidolite were awarded to one company at a cost of $165.00 per ton. We believe there remains for sale 5,840 tons of Amosite and 1,495 tons of Crocidolite.

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

FEBRUARY 1976

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	514	$ 223,015
Crocidolite (Blue), South Africa	s.tons	1,658	827,164
Chrysotile, Crudes, Canada	s.tons	188	83,613
Rhodesia	s.tons	288	303,983
Chrysotile, Spinning Fibers, Canada	s.tons	430	302,121
Chrysotile, Other, Canada	s.tons	44,713	8,891,429
Mexico	s.tons	4	906
South Africa	s.tons	154	89,138
Other Crudes & Fibers, Canada	s.tons	296	26,123
Germany (West)	s.tons	13	37,101
South Africa	s.tons	20	2,239
		48,278	$10,786,832

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	577,249	$ 708,431
A-C pipes, tubes & fittings	Lb	668,099	70,825
Other asbestos-cement articles	Lb	725,094	92,479
Other asbestos articles		..	441,298
			$ 1,313,033

JANUARY-FEBRUARY 1976

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	699	$ 302,462
Crocidolite (Blue), South Africa	s.tons	2,700	1,313,715
Chrysotile, Crudes, Canada	s.tons	188	83,613
Rhodesia	s.tons	378	359,012
Chrysotile, Spinning Fibers, Canada	s.tons	895	636,363
Chrysotile, Other, Canada	s.tons	88,959	17,638,155
Mexico	s.tons	5	1,229
South Africa	s.tons	190	111,926
Other Crudes & Fibers, Canada	s.tons	1,763	288,352
Germany (West)	s.tons	823	179,840
South Africa	s.tons	269	96,615
USSR	s.tons	1,835	319,079
		98,704	$21,330,361

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	1,125,843	$ 1,549,357
A-C Pipes, tubes & fittings	Lb	938,161	100,900
Other asbestos-cement articles	Lb	2,655,009	425,489
Other asbestos articles		..	953,418
			$ 3,029,164

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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

FEBRUARY 1976

UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	1,904	$ 566,475
Waste and refuse	s.tons	1,956	513,227
		3,860	$ 1,079,702
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	1,567,630	$ 236,216
Other a-c fiber-cement articles	Lb	1,101,397	242,428
Gaskets	Lb	57,802	138,462
Packing	Lb	267,947	429,302
Heat or sound insulation		..	186,320
Textiles & yarns	Lb	1,369,897	572,025
Protective clothing		..	58,629
Mfrs. other than friction materials		..	1,049,354
Clutch facings & linings for auto. use	No	43,220	84,454
Other clutch facings & linings	No	81,142	31,292
Brake linings for automotive use	Lb	885,772	750,050
Other brake linings	Lb	249,496	254,168
			$ 4,032,700

JANUARY-FEBRUARY 1976

UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	2,907	$ 951,350
Waste and refuse	s.tons	3,459	933,411
		6,366	$ 1,884,761
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	4,087,428	688,803
Other a-c fiber-cement articles	Lb	2,804,974	524,395
Gaskets	Lb	129,192	265,109
Packing	Lb	693,465	1,266,450
Heat or sound insulation		..	467,647
Textiles & yarns	Lb	1,540,412	777,106
Protective clothing		..	142,058
Mfrs. other than friction materials		..	1,719,082
Clutch facings & linings for auto. use	No	140,371	205,189
Other clutch facings & linings	No	81,662	34,515
Brake linings for automotive use	Lb	1,658,801	1,396,406
Other brake linings	Lb	384,154	386,118
			$ 7,872,878

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EXPORTS FROM CANADA

From: Statistics Canada

FEBRUARY 1976

UNMANUFACTURED ASBESTOS:	CRUDE	MILLED GP 3	MILLED GP 4&5	SHORTS GP 6-9
Western Europe	..	828	20,657	10,548
Eastern Europe	..	170	1,141	200
Middle East	..	..	1,009	457
Africa	..	..	350	460
Asia	..	123	6,200	13,010
Oceania	..	..	4,876	556
So. & Cen. America & Antilles	..	216	6,314	3,546
United States	20	637	13,124	36,787
	20	1,974	53,671	65,564

The total amount of unmanufactured asbestos exported in *February 1976* was 121,229 short tons, valued at $34,750,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 259,000
Asbestos brake linings & facings	159,000
Asbestos-Cement building materials	695,000
Other basic asbestos products	180,000
	$1,293,000

JANUARY-FEBRUARY 1976

UNMANUFACTURED ASBESTOS:	CRUDE	MILLED GP 3	MILLED GP 4&5	SHORTS GP 6-9
Western Europe	..	1,776	39,811	23,864
Eastern Europe	..	240	4,741	280
Middle East	..	26	3,124	557
Africa	..	..	1,591	680
Asia	..	197	13,938	24,192
Oceania	..	..	7,573	934
So. & Cen. America & Antilles	..	417	13,263	7,560
United States	20	1,022	23,662	67,158
	20	3,678	107,703	125,225

The total amount of unmanufactured asbestos exported in *January-February 1976* was 236,626 short tons, valued at $68,372,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 335,000
Asbestos brake linings & facings	233,000
Asbestos-Cement building materials	1,212,000
Other basic asbestos products	393,000
	$2,173,000

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Asbestos. We couldn't live the way we do without it.

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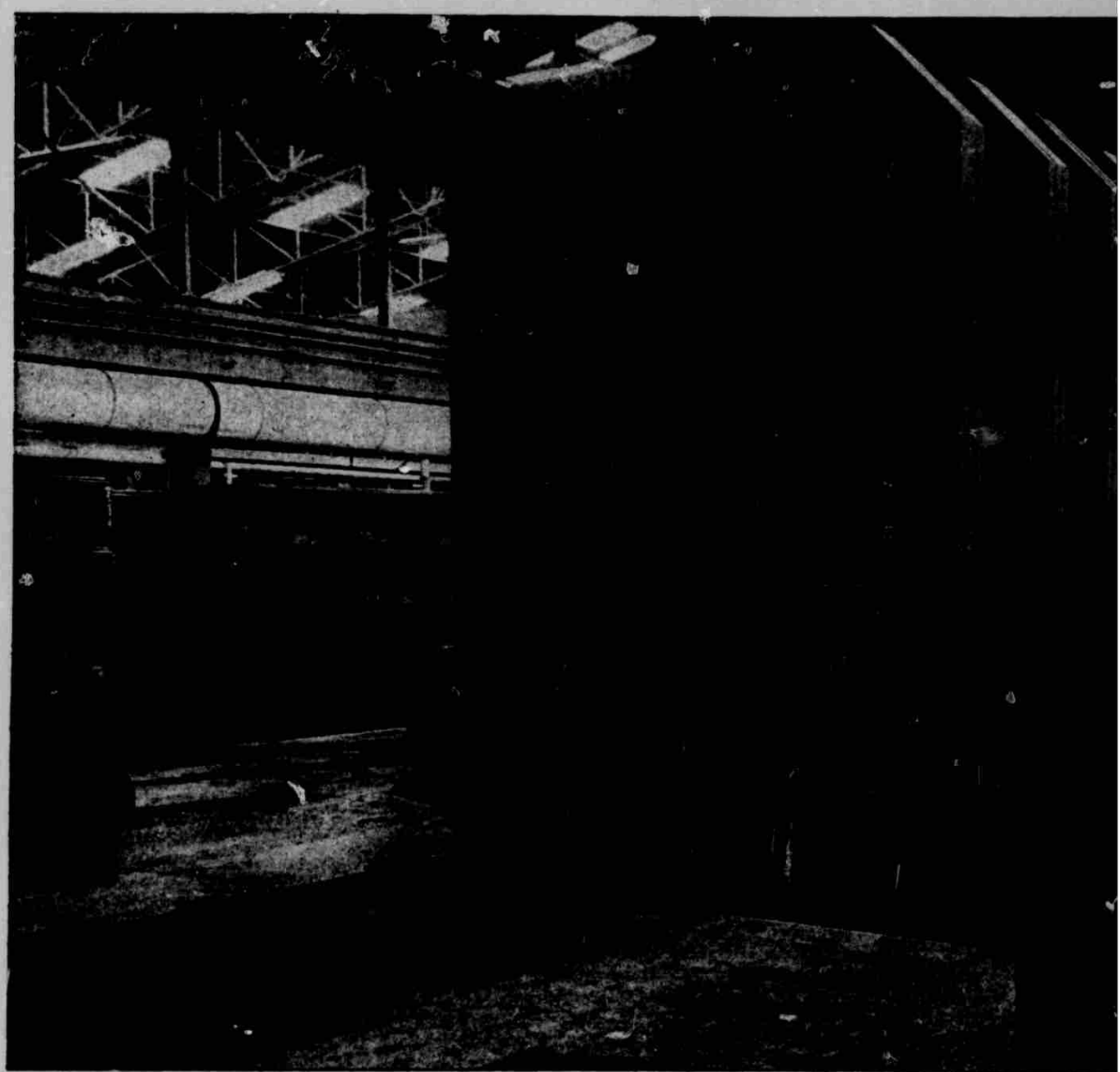
Asbestos Corporation Limited,
Sun Life Building,
Montréal, Québec H3B 2X6,
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Graafstroomstraat 51, Rotterdam-3008, **NETHERLANDS.**
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Our Program
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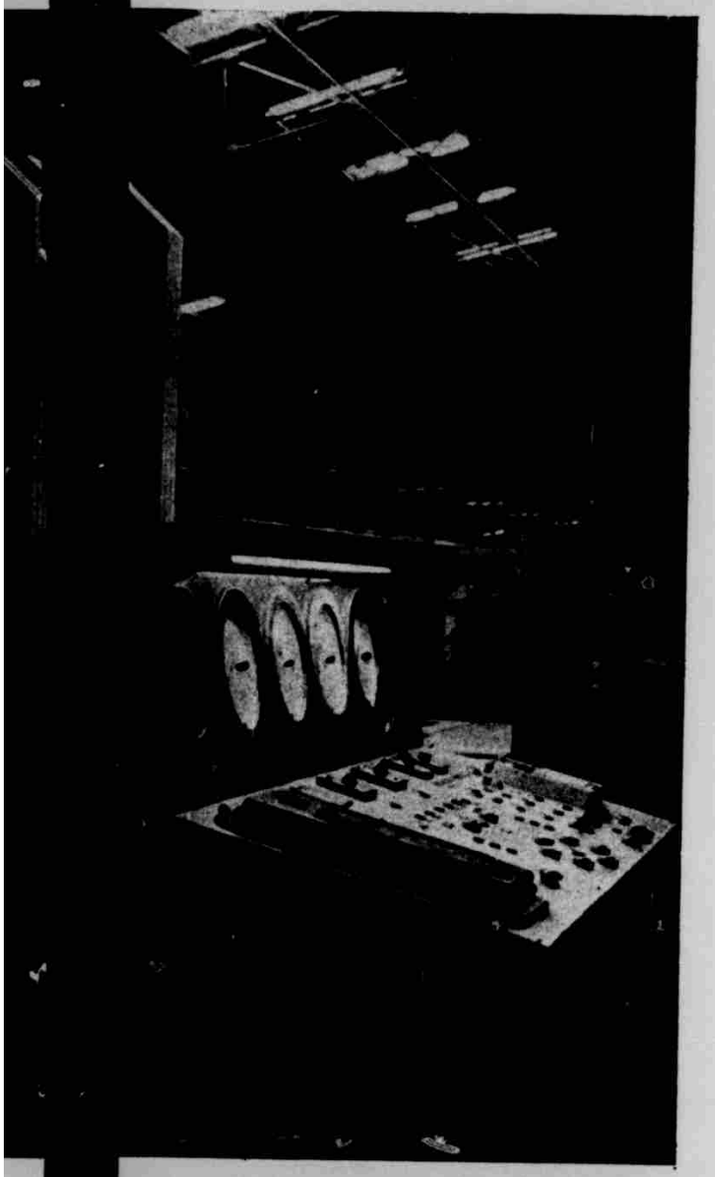
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flat and corrugated asbestos-cement sheets,
asbestos-cement tiles,
compound boards for prefabricated houses,
window sills,
stairs and other asbestos-cement products,
hydraulic presses for asbestos-cement sheets hydraulic punching presses for the manufacture of small size shingles out of asbestos-cement hydraulic pipe testing presses;
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12 000 tons press for the production of asbestos-cement sheets size of finished sheets: 1600 x 4000 mm

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LATEST ASBESTOS PRICES

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

No. 1 Crude (Soft)	$ . .	$2750.00
No. 2 Crude (Soft)	: .	1750.00
AAA	. .	1250.00
Group No. 3—Nonferrous Filtering—Plastic	715.00—	800.00
Group No. 4—Nonferrous Filtering—Plastic	700.00—	800.00
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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Time for The 100% Performance

And time to think about all that goes into making a medal winner.

Albany's 100% synthetic Asbestos Cement Felt for Sheet Machines was designed, woven, and needled for one job only. Tailored for control of drainage and an exact specified finish, Albany's AC Felt is made for work and better production.

Endurance is built in. So is your profit!

You win in this business by staying the winner and performing 100%.*

ALBANY

*Ask your Albany Felt Sales Representative to review the records.

ALBANY FELT COMPANY OF CANADA LTD.
Cowansville. Quebec. Canada

When making your plans to attend the Summer Olympics in Montreal, please plan to visit our plant in Cowansville just a few miles away. You'd be most welcome.

THE MINING SCENE

KILBORN REPORTS TO WOODSREEF

Kilborn Engineering Ltd., of Toronto, Ontario, has completed a study for *Woodsreef Mines Ltd.* of current and future asbestos mining operations of Chrysotile Corporation of Australia Pty. Ltd., at Barraba, New South Wales, Australia. According to the Kilborn Report, Chrysotile Corporation has mineable ore reserves of 40.28-million metric tons in the North Orebody and 7.15-million tons in the South Orebody. Kilborn is of the opinion that to maximize profitability, the company should increase its output and could do so to 116,000 tons of fiber annually. This would involve new capital expenditure of $4.1-million. Based on the foregoing, it is estimated that the net present value of future cash flow, appropriately discounted, is $34.4-million.

McADAM/CAMPBELL CHIBOUGAMAU PACT

McAdam Mining Corporation Ltd. has entered into an agreement with *Campbell Chibougamau Mines Ltd.* whereby it can earn a 50% interest in Campbell's Q Project—96 claims in Roy Township, near Chibougamau, Quebec. The site is located 5 miles west of McAdam's main asbestos project at Roberge Lake, McCorkill Township. Campbell acquired the ground initially as a copper prospect some years ago but subsequent work revealed widespread showings of asbestos fiber. Drilling at the Q-3 hole returned several hundred feet of asbestos-bearing serpentinized dunite containing wide zones of up to 20% asbestos fiber in parallel veinlets. This is within a favorable structure 5000 feet long and 2500 feet wide.

The actual target date for production at Roberge Lake is 1980, with plans to produce 100,000 tons of fiber per year from the milling of 3-million tons of ore. [The Northern Miner]

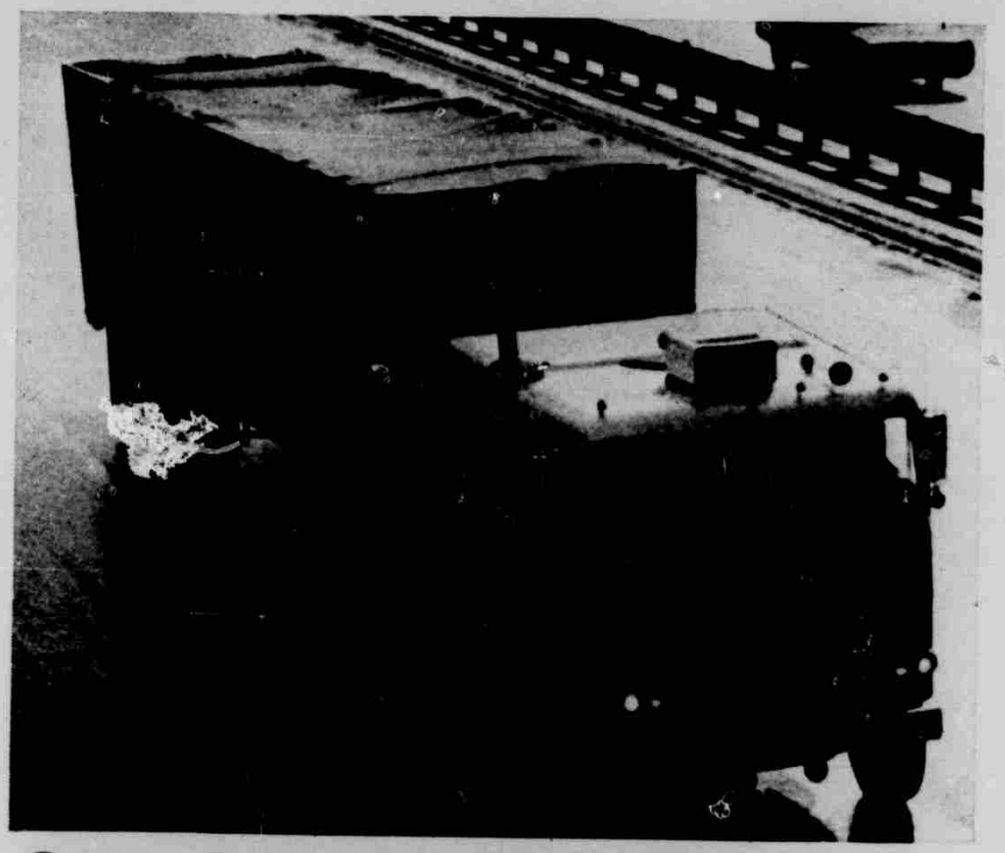
SOUTH AFRICAN PACKAGING

All shipments of asbestos from the Republic of South Africa to the United States are now made in 18-metric-ton containers, says R. C. Wareham, President of *Special Asbestos Company*, Milwaukee, Wisconsin. The shipments are meeting U.S. regulations on weight and at no premium charge. The cost per ton has been reduced from $144.00 to $91.20 and includes pallet and all packaging charges.

PATHFINDER STUDY

Pathfinder Resources Ltd., Vancouver, British Columbia, has a final feasibility study on its asbestos holding at Cleveland Township, Quebec. The project is subject to the procurement of financing which is not available at this time. [The Northern Miner]

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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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ANNUAL REPORTS—1975

CASSIAR ASBESTOS CORPORATION LTD.

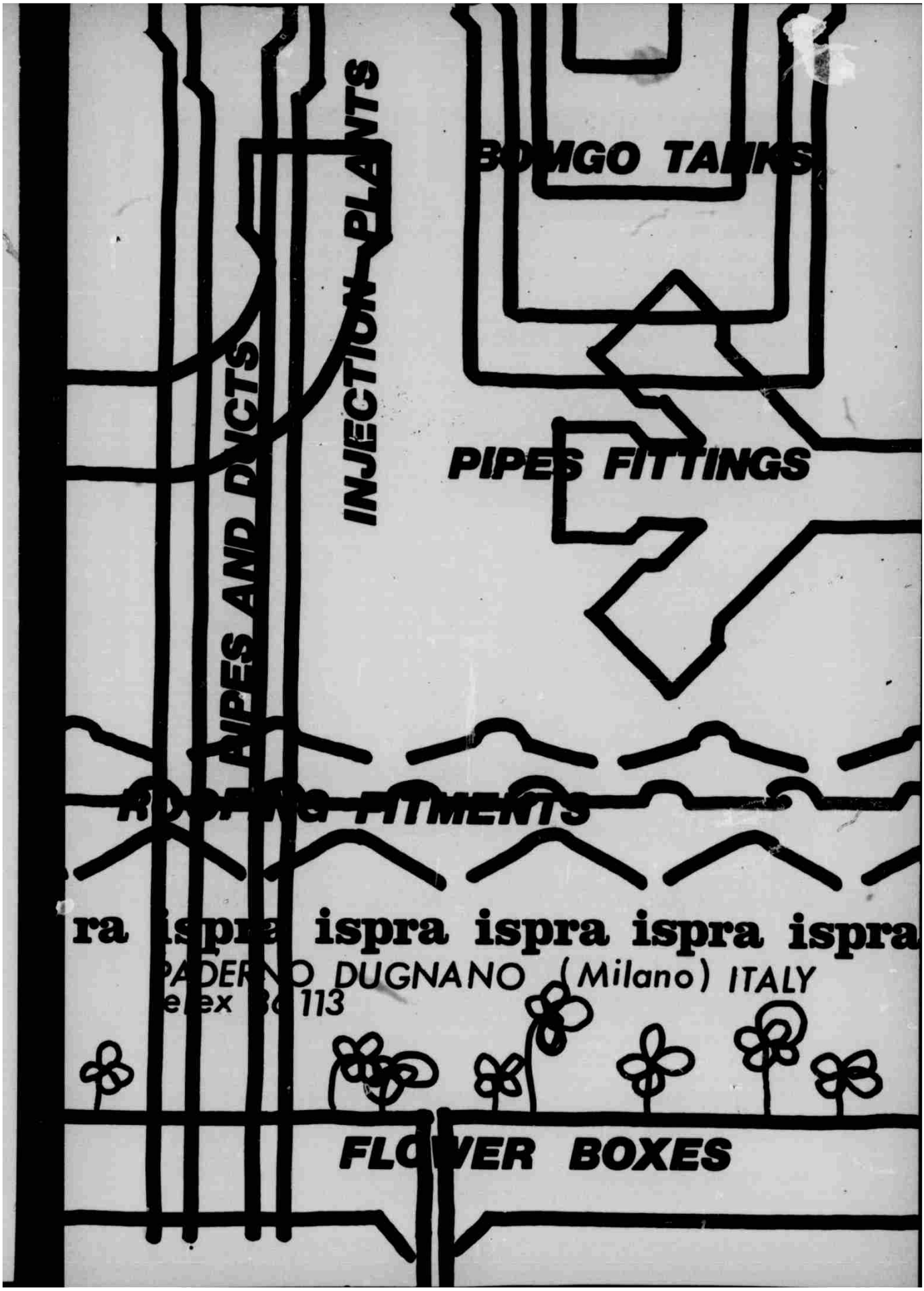
Cassiar Asbestos Corporation Ltd. reported an increase in 1975 over 1974 in the quantity of asbestos fiber sold and the average selling price, resulting in a net income of $8.3-million or $1.51 per share. This is a marked improvement over 1974 when a net loss of $2.1-million was sustained after a non-recurring write-off of $3.3-million. Cassiar's net income takes into account $9.5-million for taxes and royalties which includes almost $4 million for the 1975 British Columbia Mineral Land Tax. The Land Tax paid in 1974 was $256,763. At the Cassiar Mine at Cassiar, British Columbia, $4-million and $1.5-million respectively were spent on the 300-ton-per-hour tramline system and the primary concentrator.

Asbestos Sales—During 1975 Cassiar sold 199,404 tons of asbestos valued at $79.5-million, compared with a 1974 quantity of 183,982 tons and a value of $53-million. Of the total value of the fiber sold, $40.9-million was attributable to the Cassiar Mine and $38.6-million to the Clinton Mine. The increased amount realized per ton of fiber in 1975 reflects the effect of two price increases on all Cassiar and Clinton grades, a 20% increase on January 1, 1975, and an 8% rise effective August 1. The market, particularly for asbestos-cement-pipe grades, is strong and should continue so through 1976.

Cassiar Mine—At Cassiar, British Columbia, 934,754 tons of ore were mined. After rejection in the primary concentration plant, 799,976 tons were left for refinery processing. The recoverable grade of ore mined was 8.93% compared with 8.11% in 1974. During the year, 798,149 tons of concentrate were treated to produce 83,504 tons of fiber. The new concentrator was commissioned in the fall of 1975. Unusually wet ore from the mine during the ensuing few months made it difficult to achieve the improved efficiencies anticipated. The flattening of the overall slope of the footwall from 47° to 37° is proceeding on schedule. On the hanging wall adequate safety catchments have been re-established and ore mining is currently underway in the pit bottom. A new waste phase with wider operating benches has been started. . . . *Environment*—In 1974 Cassiar formulated a comprehensive plan to reduce dust counts in the Cassiar Mill including an up-grading of the existing 500,000-cubic-feet-per-minute baghouse and the installation of a system to provide an additional 480,000 cubic feet of air per minute. A central vacuum system together with the enclosure of all dust-producing equipment will aid in keeping working areas clean, which, in turn, will assist in controlling airborne fiber and dust levels. An improved dust collection and vacuum cleaning system is being installed in the mine crushing plant and to prevent workers from carrying fiber into the community, a new change house and laundry is to be constructed.

Clinton Mine—At Clinton Creek, Yukon Territory, 1,947,078 tons of ore were mined—1,083,160 tons from the Porcupine orebody and 863,918 tons from Snowshoe. After rejection, 1,407,453 tons of con-

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centrate remained for mill processing. The recoverable grade of ore mined was 5.85% compared with 4.37% in 1974. After treating 1,385,648 tons of concentrate, the Clinton Mine produced 113,928 tons of fiber. . . . *Territorial Regulations*—In 1975 a Yukon Territorial Government Task Force was established to determine standards for airborne asbestos within the Yukon. The Task Force has recommended that the present Territorial standard of 5 fibers per cubic centimeter of air be reduced to 2 f/cc by July 1978.

Exploration—When the current capital expenditure programs at the Cassiar Mine have been completed it is the company's intention to again turn its attention to exploration with a view to finding a replacement for the Clinton Mine which will be phased out of production in 1978 when ore reserves will have been depleted. The first target for exploration will be Cassiar's deposit at Kutcho Creek. The option on the Pyke Asbestos project in New Zealand was dropped during the year.

TURNER & NEWALL LTD.

For the year ended December 31, 1975, the Turner & Newall Group reported total sales to external customers valued at £257,256,000, £21.5-million more than in the previous year. Direct exports from the United Kingdom including sales to overseas subsidiaries amounted to £54,588,000 against £46,701,000 in 1974. Profit after taxation reached £11,335,000 in 1975 compared with £10,458,000 a year earlier. Long-term programs of vertical integration in the mining of asbestos and in the manufacture of products largely based on asbestos have been accompanied by active growth into other product fields associated with T&N's principal markets. As a result, non-asbestos products now constitute more than 40% of worldwide sales and over half the sales in European markets. The Group is made up of 24 overseas subsidiaries and 17 associated companies. In Rhodesia T&N has important wholly-owned mining and manufacturing companies from which it has been cut off since shortly after the declaration of independence in that country in November 1965.

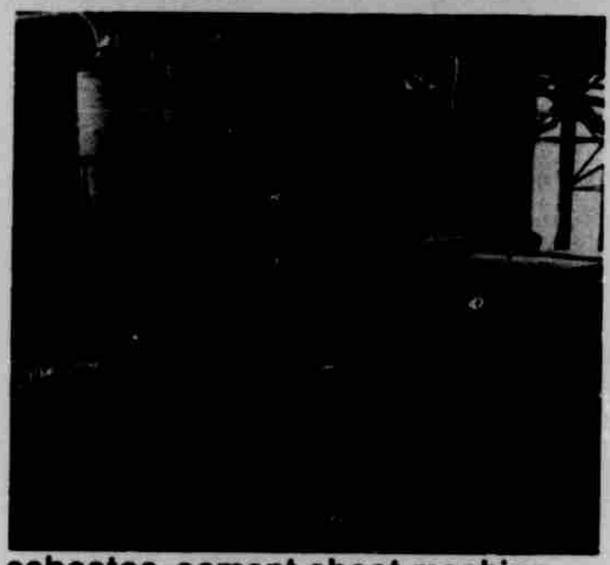
Building, Construction & Insulation Materials—Total sales reached £94-million in 1975 against £80-million in 1974 and trading profit amounted to £9-million in 1975 compared with £6-million in 1974. U.K. markets for construction materials were depressed. Demand was strong for thermal insulation products, both in the U.K. and abroad. Demand in the U.K. for asbestos-cement building materials produced by TAC Construction Materials Ltd. was significantly less than in 1974 due to the low level of construction. A substantial increase in exports, particularly of a-c pipes to the Middle East, partly offset this reduction and exports accounted for almost 20% of sales revenue in 1975. For the Group's overseas companies demand for a-c building materials and pipes was strong, sales revenues increased 33% and aggregate trading profits rose 38%. The new a-c pipe factory being built for Unipipe (Pty) Ltd. at Bloemfontein, Republic of South Africa, will commence produc-

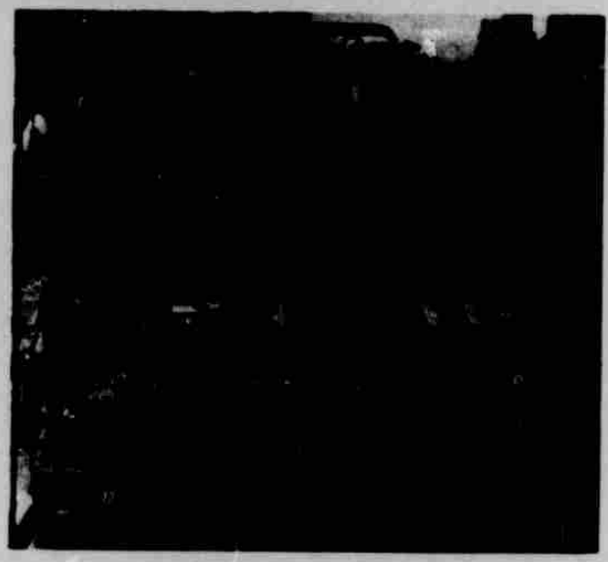
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WEHRHAHN



asbestos-cement production hall





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tion in 1976. In Canada demand for a-c pipes for water and sewerage systems was excellent and for the third consecutive year the plant of Atlas Asbestos Company worked at full capacity. The two subsidiaries in Nigeria experienced a level of demand for building materials and pressure pipes which exceeded the capacity to produce. Production capacity at Kaduna, Nigeria, is being increased.

Plastics & Industrial Materials—Total sales reached £95-million in 1975 against £92-million in 1974 and trading profit amounted to £4.5-million compared with £9.9-million in 1974. The year was difficult for the chemicals and plastics industries throughout the world. Overstocking by customers in 1974 was followed by prolonged liquidation of stocks which continued for most of 1975. Late in the year demand began improving and plant utilization returned to more satisfactory levels. In contrast, home and, particularly, export markets for asbestos-based and other industrial materials remained buoyant during most of the year. Sales of TBA Industrial Products Ltd. increased 30% in value over the previous year and trading profits, after stock appreciation, rose 75%. Despite continued shortages of higher grade fibers, asbestos textiles had a good year and made an important contribution to total profit. The glass fiber reinforcement division suffered from poor demand which was substantially lower than production capacity. The value of exports of belting products rose 40% above the record achieved in 1974.

Automotive & Industrial Components—Total sales reached £77.6-million in 1975 against £72-million in 1974 and trading profit amounted to £6.9-million compared with £6.3-million in 1974. Although original equipment demand for the products of the Group's automotive components companies based in the U.K. and continental Europe was depressed throughout the year, T&N's strength in replacement markets and effective management action to reduce costs enabled these companies to increase their trading profits by nearly 16%. The trading experience of the overseas subsidiaries was similar to that of the European companies.

Mining & Distribution of Asbestos Fibers—Total sales reached £23-million in 1975 against £20.6-million in 1974 and trading profit amounted to £1.6-million compared with £3.4-million in 1974. Demand for asbestos fiber was strong throughout 1975 and grades used in the manufacture of asbestos textiles were in short supply. Prices remained firm but profits fell as a result of the prolonged strike in Canada. The capital expenditure program on the mill extension and on improvements to meet environmental standards continued at Bell Asbestos Mines Ltd. Production at Havelock Asbestos Mines (Swaziland) was at the same level as in 1974. Selling prices improved significantly and, as a result, profits increased. The shipping situation at Maputo (formerly Lourenco Marques) was very difficult but improved in the second half of the year, enabling some reduction in stocks awaiting shipment. Since the end of the year these problems have become worse and it remains to be seen whether they can be overcome by shipment through South African ports. The mining operation of Dublin Consolidated Asbestos Mines in South Africa again produced a useful profit. Two of its small mines have been sold.

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ASBESTOS STOCK QUOTATIONS

Close—May 18, 1976

Abitibi Asbestos	C$1.00
Advocate Mines	C$1.90
Armstrong Cork	28½
Armst. Cork (pfd 3.75)	50
Asarco	16½
Asbestos Corporation	C$29.875
Bendix	42¾
Bendix (pfd 3)	87
Carlisle	16¼
Cassiar Asbestos	7⅛
Certain-teed Products	19
Charter Conso.	pence 154
Colt Industries	47¾
Colt Ind. (pfd 1.60)	26
Colt Ind. (pfd 4.25)	69½
Conwest	C$3.75
Flintkote	19
F-kote (pfd-A 4.50)	59
F-kote (pfd-B 2.25)	29
GAF Corporation	14⅞
GAF (pfd 1.20)	20⅞
Gulf & Western	23⅞
G&W (warrants)	6¼
G&W (pfd 3.87)	91
G&W (pfd 5.75)	72
IC Industries	19
IC ind (pfd 6)	84
IC Ind (pfd 3.50)	39¾
Jim Walter Corporation	41½
Jim Walter (pfd 1)	11⅝
Jim Walter (pfd 1.60)	46
Johns-Manville	29
Kennecott Copper	34
Maremont	14⅞
McAdam Mining	C$.39
National Gypsum	15⅜
Pathfinder	C$.37
Porter, H. K. (pfd 5.50)	67¼
Raybestos-Manhattan	33
Rio Algom	C$33.25
Royal Industries	7½
Supradur	Bid 4⅜ ; Asked 4⅞
Union Carbide	72
Uniroyal	9¼
Uniroyal (pfd 8)	79¼
United Asbestos Inc.	4 5/16
Woodsreef Minerals	C$.66



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MEN ON THE MOVE

AMATEX CORPORATION

Edward A. Morris, formerly a Marketing Manager for Uniroyal Fiber and Textile, has joined Amatex as Sales Manager, Southern District. Throughout the South and part of the Southwest, Mr. Morris is responsible for the industrial sales of the company's line of asbestos and fiber glass yarns, tapes and fabrics.

ASARCO INC.

Kenneth W. Nelson, Asarco Vice President for Environmental Affairs, was named President of Smelter Environmental Research Association, a new, non-profit corporation organized by Asarco and other leading metals and minerals firms of the U.S. to study the potential environmental and occupational health effects of emissions and effluents from smelting, refining and other metal and mineral processing.

Top appointments announced recently by Asarco include: *Norman Visnes*, Vice President-Mining, succeeding *T. A. Snedden*, retired; *Thomas C. Osborne*, Director of Exploration, succeeding *John J. Collins*, retired; and *Robert S. Gray*, Manager for Eastern Canada of Asarco Exploration Co. of Canada Ltd., succeeding *Richard L. Brown*, new Assistant Director of Exploration for the parent company.

CEMENT ASBESTOS PRODUCTS COMPANY

Bruce Klomfas, Plant Manager of Capco, a subsidiary of Asarco Inc., announced the appointment of *Bernd Simon* as Plant Engineer. Prior to joining Capco, Mr. Simon had been a Plant Engineer for Certainteed Products Corporation.

KILBORN ENGINEERING LTD.

J. G. Gauthier was elected Vice President and Managing Director of Kilborn (Quebec) Ltd., it was announced by *J. T. Dew*, President and Chief Executive Officer of Kilborn Engineering. Mr. Gauthier heads the new facility based in Montreal from which engineering and construction management services will be provided for the Quebec area and specialized services in the asbestos field will be available internationally.

UNITED ASBESTOS INC.

Harold F. X. Plate, Vice President-Sales, announced the appointment of *Nancy Innes* as Traffic Coordinator. She is responsible for coordinating Montreal Shipping Services with United's Midlothian Mine located near Matachewan, Ontario. Miss Innes had been employed by B & K Shipping and Elmac World Transport Ltd.

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M. S. BADOLLET—HONORED

Marion S. Badollet, well-known authority in the Asbestos Industry, received an Honorary Doctorate in Chemical Engineering from Vincennes University in recognition of his years of research on asbestos.

He retired in 1960 as Chief of Asbestos Fiber Research for Johns-Manville Corporation and is credited with establishing the J-M asbestos research program in 1938. His productive work led to several patents and the presentation of numerous technical papers to a variety of prestigious mineralogical organizations. Since 1963 he has been associated with the Health Research Institute of Fairleigh-Dickinson University, acting as a consultant on research into the effects on hamsters of exposure to asbestos. His most recent lasting contribution to the Asbestos Industry is the comprehensive reference book titled "Asbestos/A Remarkable Mineral Fiber."

On the same day he received the award from Vincennes University, he had the distinct pleasure of unveiling a plaque during ceremonies honoring one of his ancestors, John Badollet, who helped to settle the Mid-West in the late 1700's and early 1800's.

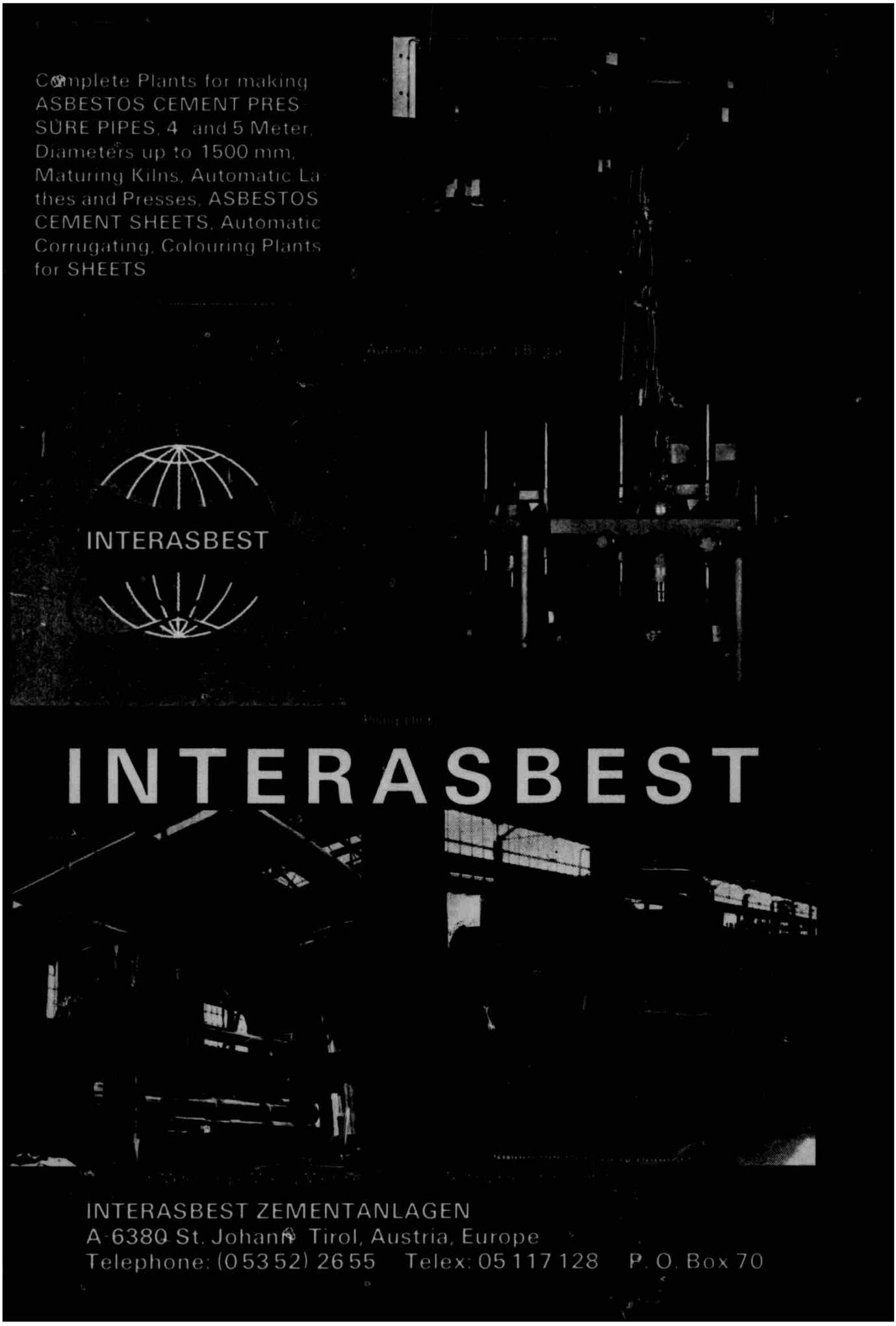
J. D. CHRISTIAN—RETIRED

Brigadier General John Despard Christian, C.B.E., BA Sc., P.Eng., retired as Chairman and a Director of Cassiar Asbestos Corporation Ltd. at the Annual Meeting on April 22, 1976. He is remaining with the company for 2-3 years in a consulting capacity.

Mr. Christian's career in the Asbestos Industry parallels the history of Cassiar Asbestos Corporation. In 1951, the year Cassiar was formed by Conwest Exploration Co. Ltd., Mr. Christian joined the firm as Consulting Engineer. He became General Manager in 1954, President in 1963 and Chairman of the Board in 1971. He served as Chairman and President from 1971 to 1973 and as Chairman during 1974 and 1975. Other positions held by Mr. Christian include a Director of Conwest Exploration and of Central Patricia Gold Mines Ltd. from 1953 to 1974 and Manager of Teck Exploration Co. from 1945 to 1951.

Mr. Christian is responsible for developing the Cassiar Mine, for bringing it to the production stage and for breaking into world markets to sell the fiber that was to be produced. In addition, under his guidance the Clinton Creek Mine was brought into operation, a Transport Division and a Supply Company to serve both mines was established and a marine wharf and warehouse was built at North Vancouver. In the President's Address given at the Annual Meeting, Mr. Peter Steen said that during the last 25 years, Mr. Christian has been totally involved in the Asbestos Industry and he is welcomed with respect by the asbestos mining and manufacturing communities throughout the world.

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BIRTHDAY GREETINGS to . . .

David C. Cook, Mine Manager, United Asbestos Inc., Midlothian Township, Ontario, July 15.

W. Ray Blankenship, Vice President-Sales, Pipe & Plastics Group, Certain-teed Products Corporation, Valley Forge, Pa., July 17.

Ronald L. Cutler, Vice President-Sales, Friction Products Group, Abex Corporation, New York City, July 17.

Harry A. Jensen, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, July 17.

W. R. Doughty, a Director, Cape Industries Ltd., London, England, July 18.

Wolfgang A. Guenther, Secretary, Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 18.

Roy A. Jann, Vice President-Marketing, RM Friction Materials Co., Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 19.

Frederick L. Page, Assistant to Senior Vice President, Mining & International Divisions, Johns-Manville, Denver, Colorado, July 20.

Victor L. Persbacker, Vice President-Administration, Abex Corporation, New York City, July 20.

William S. Simpson, Chairman of the Board & Chief Executive Officer, Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 21.

Paul E. Leclerc, Sales Director, Asbestos Corporation Ltd., Montreal, Quebec, July 22.

Robert C. Congdon, Eastern Regional Manager, Carey-Canadian Mines Ltd., Lebanon, New Jersey, July 23.

Dimitry Poutiatine, Director, Asbestos Fibre Division Sales, Johns-Manville Corporation, Denver, Colorado, July 25.

M. Sanfeliu, President, Frenos y Embragues S.A., subsidiary of BBA Group Ltd., Barcelona, Spain, July 25.

Nina Schwezoff, Vice Managing Director, Putten's Asbestos Organization, Johannesburg, Republic of South Africa, July 25.

Richard C. Wareham, President, Special Asbestos Company, Inc., Milwaukee, Wisconsin, July 26.

Michel Rodrigue, Plant Manager, British-Canadian Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, July 30.

J. P. Farrell, Managing Director, Cape Contracts Ltd., Barking, Essex, England, July 31.

W. Horace Beasley, Vice President-Controller, Cement Asbestos Products Company, Birmingham, Alabama, August 1.

B. G. Pewsey, Production Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, August 1.

T. A. Dougherty, Senior Vice President, Pipe & Plastics Group, Certainteed Products Corporation, Valley Forge, Pa., August 3.

N. George Belury, President & Chief Executive Officer, Abex Corporation, and Group Vice President-Commercial Products, IC Industries, Inc., New York City, August 4.

Joe B. Cordell, President & Chief Operating Officer, Jim Walter Corporation, Tampa, Florida, August 4.

Edward J. Killian, President, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, August 4.

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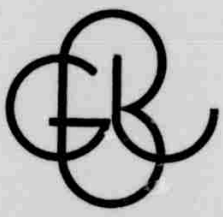
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John J. McDermott, Vice President & General Manager, Nicolet of California, Inc., Hollister, California, August 5.
H. Kenneth Passmore, Secretary-Treasurer & a Director, Hedman Mines Ltd., Timmins, Ontario, August 5.
C. G. Morgan, President, North American Asbestos Corporation, Chicago, Illinois, August 7.
A. Nelson Muncy, Vice President & Plant Manager, Jaquays Asbestos Corporation, Globe, Arizona, August 7.
R. C. Braun, Secretary-Treasurer, Niagara Insulations, Inc., Buffalo, New York, August 8.
Dewey E. Childers, Quality Control Manager, Southern Asbestos Company, Charlotte, North Carolina, August 8.
Thomas P. Jackson, Product Manager-Packing Rings & Textiles, Johns-Manville Corporation, Denver, Colorado, August 9.
R. A. Stapleton, Vice President & General Manager, Industrial Products Division, Johns-Manville Corporation, Denver, Colorado, August 10.
Melvin H. Baker, Honorary Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.
H. B. E. Stowe, General Manager, Shabanie Mine, Rhodesian & General Asbestos Corporation (Pvt) Ltd., Shabanie, Rhodesia, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.
G. A. McCammon, Vice President & Comptroller, Asbestos Corporation Ltd., Montreal, Quebec, August 12.
Paul Kotin, M.D., Senior Vice President-Health, Safety and Environment, Johns-Manville Corporation, Denver, Colorado, August 13.

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 including postage.]

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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ARTICLES & PAPERS

MINERALOGY OF THE ANTHOPHYLLITE ASBESTOS DEPOSIT AT GOLYAMO KEMENYANE—Hydrotherma! veins formed in the clefts of serpentinized ultrabasic rocks in the Southern Rhodope Mountains of Bulgaria consist mainly of Tremolite and Anthophyllite asbestos; chemical compositions are given. [Written in Bulgarian; contact "Asbestos Bulletin," 22-23 North Street, Guildford, Surrey GU1 4TA, England]

STUDY OF THE STRUCTURE, PHYSICO-CHEMICAL AND MECHANICAL PROPERTIES OF CHRYSOTILE ASBESTOS USED IN THE ASBESTOS CEMENT INDUSTRY—Discusses the fibrillar structure and mechanical and surface properties of Chrysotile asbestos. [Translated from Russian; Copyright Reserved; Contact "Asbestos Bulletin"]

THE USE OF ASBESTOS FIBER IN PORTLAND CEMENT AND SULPHUR CONCRETES—Report on an investigation undertaken to determine the effect of fiber incorporation on the workability and mechanical properties of the concretes; article authored by V. M. Malhotra and A. Winer, Industrial Minerals Laboratory, Department of Energy, Mines and Resources, Ottawa. [Contact "CIM Bulletin," 1117 Ste. Catherine Street West, Montreal, Quebec]

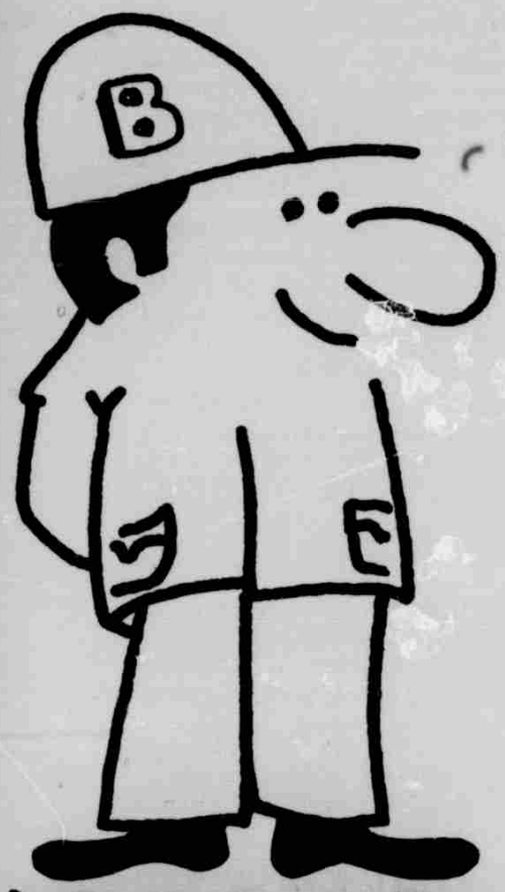
NEW PERMAFROST BLASTING METHOD DEVELOPED AT ASBESTOS HILL—Describes the difficulties with drilling and blasting at the Asbestos Hill open-pit operation of Asbestos Corporation Ltd.; the results of a study of the problem by Canadian Industries Ltd. were an accumulation of data on the problems of drilling and blasting permanently frozen asbestos ore and the development of a new slurry explosive that is still pliable at -30°F and has a critical diameter of 5" at -60°F. [Contact "Canadian Mining Journal," 310 Victoria Avenue, Montreal, Quebec]

ASBESTOS CEMENT—The following articles, written in Russian, appeared in recent issues of "Construction Materials"; photocopies are available from ASBESTOS Magazine at 20¢ per page: High Pressure Pipes in the Sucholoshchskogo Combine for Asbestos-Cement Plastics (1 page); Improving the Durability of Disc Knives for Cutting Semi-Finished Asbestos-Cement Articles (2 pages); Optimum Conditions of Pressing Large-Sized, Flat-Surfaced Asbestos-Cement Sheets (4 pages); The Effect of Small Components of Clinker and the Character of its Microstructure on the Properties of Asbestos Cement (2 pages); A Nomographic Method of Optimization of the Content of Raw Asbestos Cement Mixtures (2 pages); Method of Manufacture of "Unpressed" Flat Asbestos-Cement Sheets (2 pages).

SAFETY IN MINES—The ensuing articles, written in Yugoslavian with summaries in English, were printed in "Safety in Mines," a publication of Rudarski Institute: Effect of Mechanization Load on Work Stability of Open-Cast Mine Benches (7 pages); Analysis of Slope Stability as a Safety Measure in Open-Cast Mine and Disposal Area Operation (4 pages); Methodology of Experimental Introduction of Mining Methods in Mineral Material Deposits (8 pages).

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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 1,425,385—A panel for use in a catalytic combustion space heating appliance comprises two woven asbestos cloths laminated together and bearing on their external sides only a catalyst having catalytic action for the combustion; assigned to S.A. Francaise du Ferodo, February 18, 1976; 3 pages.

Canadian 977,483—A vinyl paste sealant for use on freshly cured epoxy metal coatings consists of a blend of a vinyl chloride dispersion resin, a vinyl chloride blending resin, a ketone-formaldehyde resin, calcium carbonate, a phthalate ester plasticizer, asbestos fibers, a particulate dessicant and a silane adhesion promoter; A. R. Bullman; assigned to Union Carbide Corporation, November 4, 1975; 20 pages.

Canadian 981,836—A composition for electroplating into articles of commerce consists of a polymer of acrylonitrile, butadiene and styrene, carbon black, titanium dioxide, a suitable pigment and asbestos fibers or powder; G. T. Dalal; assigned to The B. F. Goodrich Company, January 13, 1976; 10 pages.

Canadian 983,653—Granular prills for coating roofing shingles or other roofing materials are made by pelletizing a mixture of chlorinated paraffin or ammonium polyphosphate, polyvinyl acetate as a binder. asbestos fibers and a low-cost mineral filler; J. E. Meyer & R. C. Dean; assigned to GAF Corporation, February 17, 1976; 22 pages.

Canadian 983-752—A high-asbestos-content yarn is made from a water-laid ribbon of 55-95% by weight of asbestos, 0.5-10% of a cationic colloid and the remainder 3-denier cut rayon cellulosic fibers; the cationic colloid is condensed by heating; F. E. Edmonds and F. J. Rawlings; assigned to American Cyanamid Company, February 17, 1976; 10 pages.

Canadian 984,992—A friction composition for disc brakes, drum brakes, clutch facings and the like consists essentially of preferably about 20% by weight of finely divided nickel, 15% each of antimony sulfide and a phenolic resin, 45% of asbestos and 5% of graphite; nickel sulfide is formed in-situ; J. B. Lumb & M. Edwards; assigned to BBA Group Ltd., March 2, 1976; 11 pages.

U.S. 3,933,515—A composition for use in fabricating asbestos-cement sheets, boards or other articles having high resistance to thermal shock comprises 25-65% by weight of Portland cement or other hydraulic cement, 10-50% of Chrysotile-asbestos, 20-40% of silica four, diatomite, mica, asbestos tailings or other silica-containing material, preferably 1-5% of an organic porosity-enhancing additive such as nylon fibers, orlon fibers or sisal fibers, and optionally a hydromodifier; the

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organic additive prevents surface cracking of the product shape when it is saturated with water and then subjected to temperatures on the order of 700°C. for a period of one hour; J. C. S. Yang; assigned to Johns-Manville Corporation, January 20, 1976; 7 pages.

U.S. 3,933,726—A heat-vulcanizable asbestos polysiloxane composition of high tensile strength and excellent flexibility at both high and low temperatures comprises 15-94.75% by weight of a described organopolysiloxane polymer, 5-75% of asbestos, 0.1—8% of methyl acrylate as a curing catalyst, up to 60% of a silica filler and a small amount of a dihydrocarbon-substituted polysiloxane oil as a process aid; F. J. Glaister; assigned to General Electric Company, January 20, 1976; 10 pages.

U.S. 3,939,055—A laminated diaphragm for use in brine electrolysis cells is made by forming and drying a mat of Chrysotile asbestos and thereafter depositing additional Chrysotile asbestos on the formed mat on the side of the mat intended to face the anolyte; R. T. Foster; assigned to PPG Industries, Inc., February 17, 1976; 5 pages.

U.S. 3,943,220—In the wet forming of asbestos strand directly from a slurry, an aqueous slurry of asbestos and a wetting agent is extruded and aligned in a coagulating bath containing a gelling agent, to gel and convert the agent to a binder until the fibers are mechanically interlocked; I. Barnet & J. P. Reimschussel; assigned to Johns-Manville Corporation, March 9, 1976; 8 pages.

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CALENDAR OF EVENTS

PHOTOCHEMISTRY—12th Informal Conference; topics include laser photochemistry and isotope separation, environmental photochemistry and photochemical conversion of solar energy; National Bureau of Standards, Gaithersburg, Maryland, *June 28-July 1.*

METRIC CONVERSION IN BUILDING AND CONSTRUCTION—Seminars sponsored by the National Home Improvement Council in cooperation with National Business Conferences, Inc.; Miyako Hotel, San Francisco, California, *July 13-14,* Americana Hotel, New York City, *July 20-21.*

INSTRUMENT SOCIETY OF AMERICA—Courses sponsored by ISA: Process and Environmental Analytical Instrumentation; and Sampling and Sample Systems for Process and Environmental Instrumentation; Women's College, Denver, Colorado, *July 18-23.*

APPLIED X-RAY SPECTROMETRY AND X-RAY DIFFRACTION—One-week course of the Denver Research Institute; University of Denver, Denver, Colorado, *July 27-August 3.*

PARTICLE SCIENCE AND ENGINEERING IN THE PROCESS INDUSTRIES—Short Course; contact Engineering Foundation Conferences, 345 East 47th Street, New York, New York 10017; *August 1-6.*

MINERAL PROCESSES/THEIR ANALYSIS, OPTIMIZATION AND CONTROL—Summer School jointly sponsored by the University of British Columbia, the University of Arizona and the Colorado School of Mines; to be held at the University of British Columbia, Vancouver, British Columbia, *August 2-13.*

APPLICATIONS OF X-RAY ANALYSIS—Emphasis of the 1976 Conference will be on X-ray powder diffraction and X-ray fluorescence spectrometry; University of Denver, Denver, Colorado, *August 4-6.*

MECHANICAL BEHAVIOR OF MATERIALS—2nd International Conference held under the auspices of the Federation of Materials Societies; Sheraton Boston Hotel, Boston, Massachusetts, *August 16-20.*

INTERNATIONAL GEOLOGICAL CONGRESS—25th event sponsored by The Australian Academy of Science, the Geological Society of Australia and the International Union of Geological Sciences; University of Sydney, Sydney, Australia, *August 16-25.*

ANALYTICAL CHEMISTRY IN THE EXPLORATION, MINING AND PROCESSING OF MINERALS—International Symposium held under the auspices of the International Union of Pure and Applied Chemistry; organized by the Council for Scientific and Industrial Research in association with ten South African scientific institutions, Rand Afrikaans University, Johannesburg, South Africa, *August 23-27.*

INTERBYTMASH 76—Second International Exhibition of Municipal Service and Domestic Equipment; Moscow, Russia, *September 1-15.*

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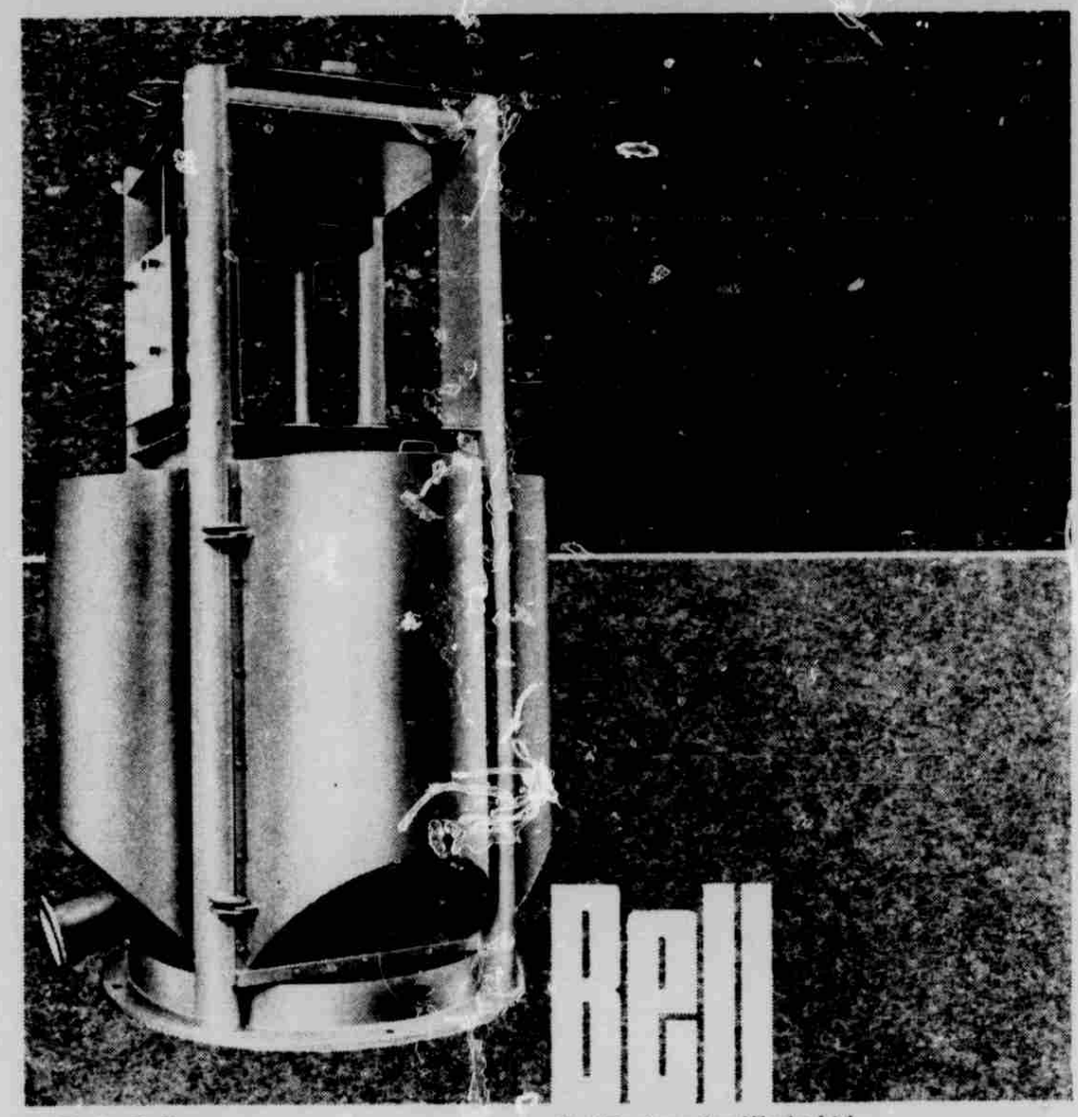
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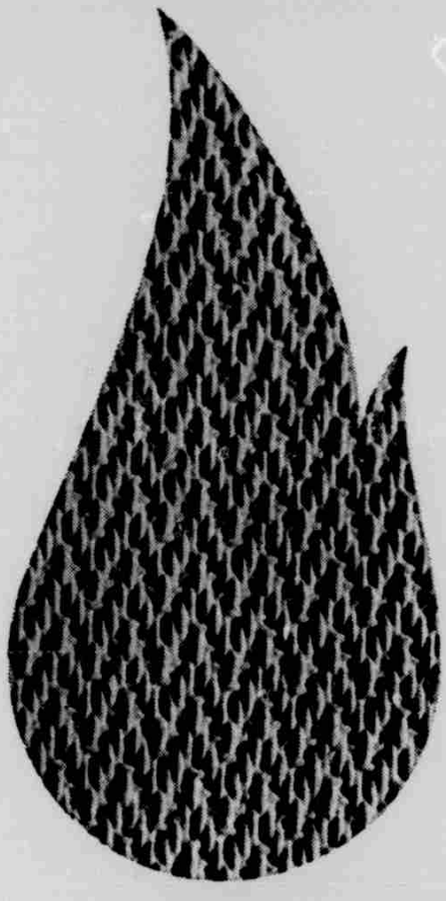
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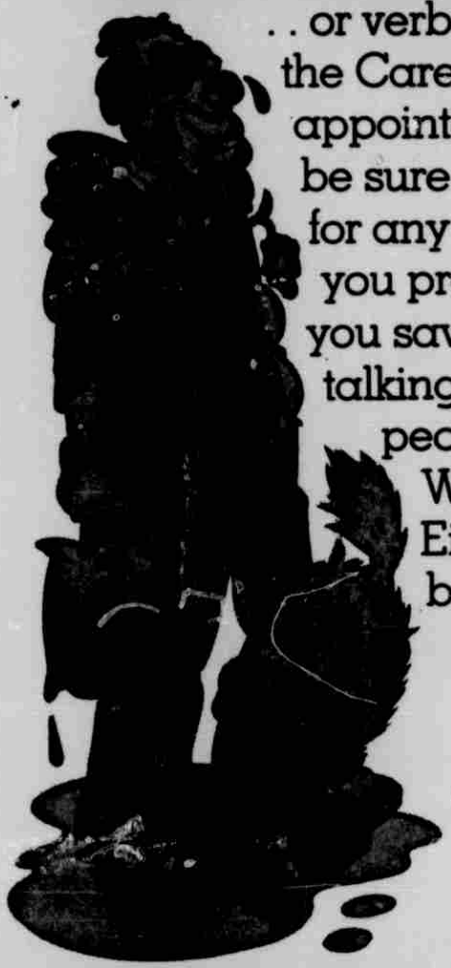


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