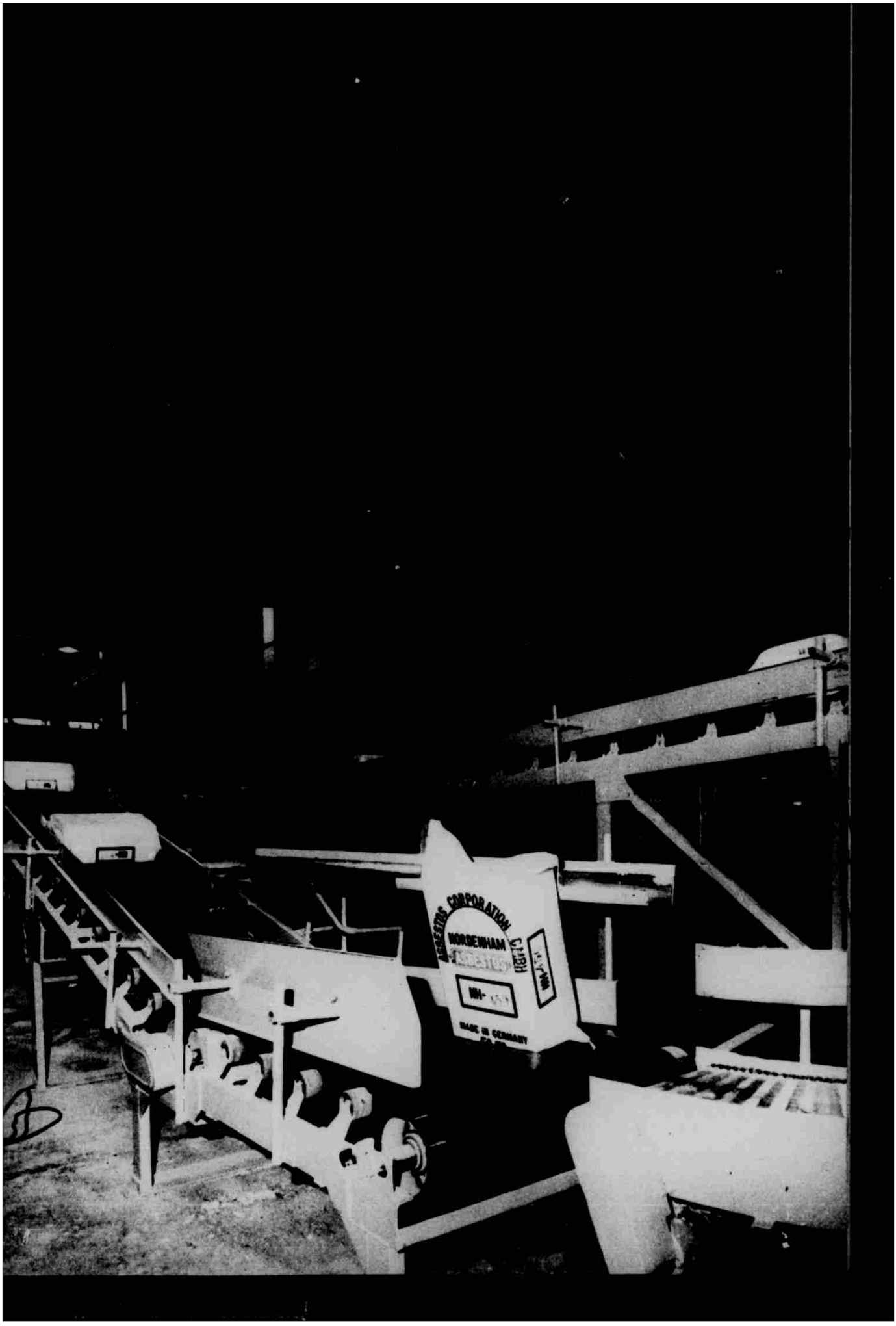
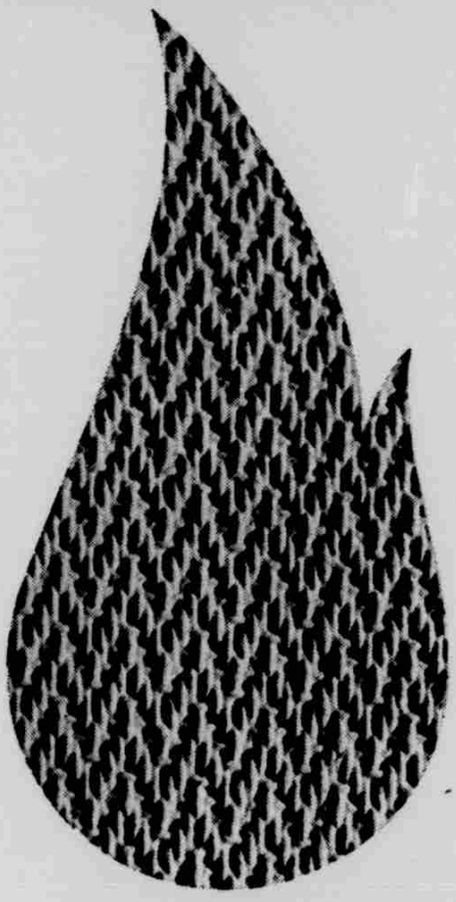


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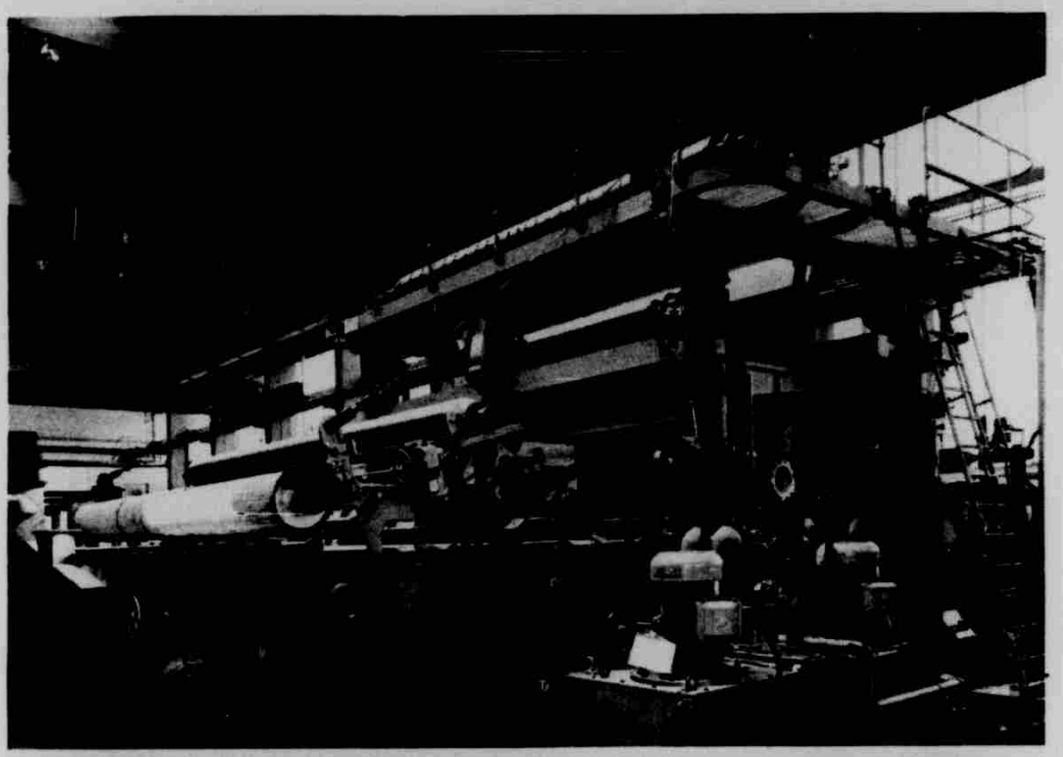


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ASBESTOS

VOLUME 57 **NOVEMBER 1975** **NUMBER 5**

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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ASBESTOS is indexed regularly by Engineering Index, Inc.

Microfilms of back issues may be obtained from University Microfilms, 300 North Zeeb Road, Ann Arbor, Michigan 48106.

PROPRIETOR: Stover Publishing Company
EDITOR: Doris M. Fagan PUBLISHER: Carrell J. Stover

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Second Class Postage Paid at Willow Grove, Pennsylvania, U.S.A.

SUBSCRIPTION RATES—United States, $4.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 35 cents each; Back Copies, 50 cents each; payable in U.S. Funds to: ASBESTOS, 131 North York Road (P. O. Box 471) Willow Grove, Pennsylvania 19090. Telephone: (215) 659-0134

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Letter To The Editor

*As Environment Engineer with an international group of Asbestos product manufacturers, I read, with interest, the *article on dust control for asbestos products contributed by Messrs. C. F. Barton and W. Leist and contained in the April issue of your magazine.*

From experience gained during my Company's dust control programme, which has resulted in all our factories conforming to the stringent British Regulations, I would like to make a number of points that could be of value to your readers.

A major requirement of dust extraction system design laid down by ourselves was that the complete system be installed under negative pressure. The over-riding advantage of operating thus is that any filter leaks are inwards hence preventing the escape of dust into the atmosphere. A further benefit is that high efficiency fans can be used, as opposed to the paddle or straight bladed fans, resulting in a significant saving in fan horse-power. Lastly increased fan life is obtained since the fan handles cleaned air only.

A further condition of system layout is that filters are located externally so that work on them does not increase exposure risk in working areas. It is appreciated however that extreme weather conditions may impose a constraint on this practice.

Lastly I would like to refer to dust conveying velocities. I have found that a velocity range of 3500/3800 feet per minute for light dusts and 4000/4500 feet per minute for heavier dusts, i.e. lathe turnings and swarfs, are quite adequate. Optimising conveying velocities keeps system pressure losses to a minimum. To convey air at 4000 feet per minute through 100 feet of 12" diameter duct means a friction loss of 1.8" wg. This increases to 3.8 wg at 6000 feet per minute. (ASHVE duct friction chart).

It is not my intention to detract from a knowledgeable and well presented article but merely to contribute a little of my own experience on the subject.

Yours faithfully,
for TAC CONSTRUCTION MATERIALS LTD.
C. J. Sutcliffe, Environment Engineer

*"Dust Control For Asbestos Products," April 1975 ASBESTOS, pages 4-10. Based on an article by C. F. Barton, Plant Engineer, and W. Leist, Vice President of G. A. Kleissler Company.

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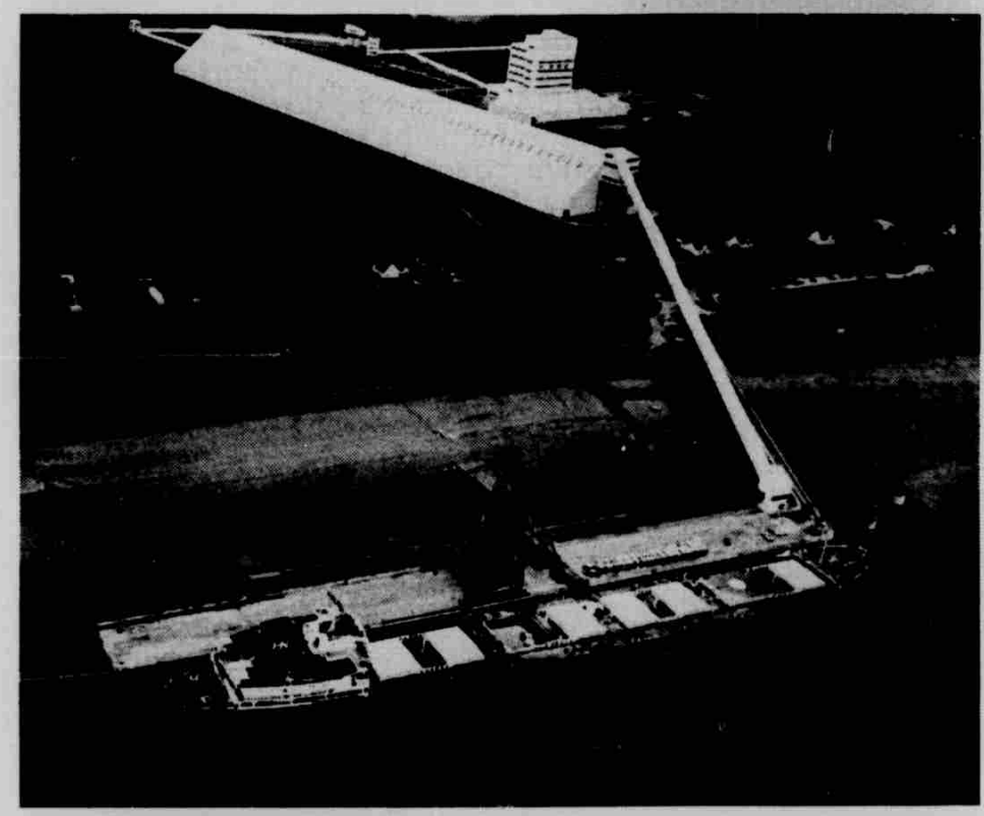
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FULLY-AUTOMATIC ASBESTOS PACKING AT ASBESTOS CORPORATION GmbH

The following information is based on an article contributed by Mollers Maschinenfabrik, Beckum, West Germany, via Mollers Corporation of America, Grand Rapids, Michigan, specialists in bulk materials handling, packaging, palletizing and pallet-shrink-wrapping systems. The palletizing process described at the end of this feature was recently introduced in the U.S. as the Jet 2001 Palletizer.

THE PLANT AT NORDENHAM

West Germany annually consumes over 180,000 tons of asbestos, two-thirds of which is used in the manufacture of asbestos-cement products. The remainder is used in a variety of industries, including protective clothing manufacturers, filter-cloth weaving mills, color-dye factories and rubber works. During the past few years the asbestos-cement industry in West Germany has steadily increased its demand for the mineral, due in part to the growing production of building materials and pipe products.

In the early 1970's, Asbestos Corporation GmbH, a subsidiary of Asbestos Corporation Ltd., Montreal, constructed an asbestos finishing plant at Nordenham, near the River Weser in West Germany. The mill obtains concentrated asbestos from the company's Asbestos Hill Mine, located on the Peninsula of Ungava in Northern Quebec.

PACKING IN PALLETIZED LOADS

At the Nordenham facility, Asbestos Corporation GmbH daily packs, fully-automatically, some 450 tons of asbestos fiber into 100-pound, palletized bales. Each pallet load weighs one ton. Output is achieved by three, 15-man shifts per day. In the first two steps of a multi-stage process of refining the concentrated asbestos, double-decked sieves divide fine and coarse fibers by means of air separators. During the third stage, the fibers are "de-dusted" and further refined. The fibers are then classified into seven main groups, according to length, via the Quebec Standard Testing Machine.

In the packing process, feed control and pressure screws convey freshly-prepared material from separate silos to six hy-

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draulic presses. One man operates two presses and each press has an applied pressure of 2300 psi. (Placing the sacks on the press opening is the only manual operation in the entire process.) To prevent the filling speed from being affected by the weighing process, the weighing apparatus consists of a fast, coarse-flow scale for 90-pound capacity and a fine-flow control scale for ten-pound capacity. An electronic double safety device interrupts the weighing process if a damaged sack is removed from the mouth of the press. The dimensions of the bales are 15-3/4" x 9-7/8" x 24-5/8".

When filled, the still-open sacks are guided to tilting tables and onto the main conveyor belt, which, in turn, transfers them onto two accumulator lines. Before the sacks are transferred onto the main conveyor belt, a switching-over process takes place which completes the filling of two bags containing different qualities of fiber and then separates them on the accumulator belts.

The main conveyor belt is designed to take two parallel rows of sacks and divide their travel direction so that each sack is weighed on the proper check-weigher. The scales check the nominal weight of the sacks against the actual weight and any variation is screened on an overhead monitor. If the variation of the actual weight is in excess of ± 0.62 kg, the scales are immediately connected to an adjoining bag rejector. Compared with most rejectors which oust the sack in the direction the conveyor is traveling, this machine has a short, intermediate belt conveyor which gently pushes the sack to one side, after which the sack is transferred onto a parallel roller conveyor. This prevents spillage by eliminating the possibility of open sacks falling during rejection.

MINIMAL DAMAGE

To reduce the possibility of damage to the sacks during transport, Asbestos Corporation packs its product in sacks made of fiber-reinforced, polyester film which, because of its superior strength and extreme thickness, cannot be heat sealed. Therefore, the bags of asbestos are stitched closed.

As will be noted from the photograph on the front cover of this issue of ASBESTOS, situated at the lower right section of the inclined conveyor is a date-stamping machine which prints a reference number on each sack. A sack-tipping device then lays the

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sacks flat before they are transported by an inclined conveyor to the accumulator lines. Bag deflection rollers guide the sacks straight from their vertical position. A baffle plate on the off-side absorbs the impact. The elevated arrangement of the accumulator lines allows an even in-feed to the automatic palletizer. It also saves space for the accumulator lines which have 180° turns. The sacks are turned 180° by a curved roller conveyor which has rubber-coated, tapered rollers. These rollers permit the sacks to be moved at right angles along the conveyor without scraping the side guide plates in the curves.

Photo cells control a close accumulation of 40 sacks on one of two conveyor belts. When the counting device records the 40th sack, the automatic accumulator transfers movement of sacks to the other line. This allows the continuous feeding of sacks to the in-feed belt of the palletizer.

THE AUTOMATIC PALLETIZER

At this point, a Mollers Universal Automatic Palletizer (see photograph on page 9), by a continuous feed sequence, achieves a palletizing capacity equivalent to the output of the aforementioned six hydraulic presses. The Mollers unit operates fully-automatically from interchangeable, programmed punch-cards. The cards select the packing pattern, the number of layers to be on the pallet and the type of pallet to be loaded.

Packages of asbestos measuring 15-3/4" x 23-5/8" are ideally suited for stacking on 39-3/8" x 47-1/4" pool pallets. The long side of one sack together with the short side of another make up the 39-3/8" — and either two sack lengths or three sack widths make up the 47-1/4". The sacks are palletized in a five-bag-per-layer pattern. Each layer weighs 500 pounds. A one-metric-ton load consists of four layers and is 39-3/8" high.

The possibility of damage to the packages cannot be completely eliminated as each stitched sack has a long closing flap. To help combat the problem, Mollers decided on machines that are fitted with additional turning mechanisms for palletizing the stitched sacks into the five-layer pattern. By using programmed punch-cards, a turntable in front of the palletizer in-feed turns all sacks to the flow direction and, consequently, ensures that the flaps are on the inside.

Counting devices on the extra-wide, plastic-covered belt conveyors position the sacks in preparation for the five-bag

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pattern process. The sacks are then moved from one position to the other in 180° turns. At the top left section of the photograph on this page, two sacks will be noted on the pattern table of a roller-driven conveyor. These two sacks had previously been



turned at right angles on the belt conveyor from a lengthwise position. The five sacks which make up the bag pattern are already positioned on the loading platform, having been aligned there by a feed fork. The hydraulically-operated main feed fork then places all five sacks onto an automatically-supplied, 1/8"-thick pallet. Either pool pallets or skid boards measuring 43-3/8" x 49-1/4" may be used. Skid boards allow for better storage in heavy vehicles but when they are available as open or multi-way load carriers, they can only be used if the receiver of the consignment can provide suitable forklift trucks with grab clamps. A sheet magazine, one-quarter filled, appears in the right foreground of the above photograph. The wooden pallet magazine is situated to the right of the loading point. Suitable forklift trucks transfer the loaded pallets to the warehouse, ready for shipment.

—ASBESTOS WELCOMES THE FOLLOWING NEW ADVERTISER—

SOLIDUR PLASTICS, INC. (page 25)

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THRU THE ENVIRONMENTAL MAZE

ASBESTOS STANDARD REVISION PROPOSAL
OSHA Suggests 0.5 Fiber Exposure Level

The U.S. Secretary of Labor, on September 30, 1975, signed a proposal that would revise the Asbestos Standard of the Occupational Safety and Health Administration. The entire proposal appeared in the Federal Register of October 9, 1975. Most importantly, it would reduce permissible exposures to an eight-hour time-weighted average of 0.5 fibers per cubic centimeter (500,000 fibers per cubic meter of air) and would reduce the ceiling limit (determined during any 15-minute sampling period) to 5 fibers per cc. The current exposure level is "5 fibers," with a "2 fiber" limitation to become effective July 1, 1976.

The proposal also provides for the establishment of additional requirements for regulated areas, employee rosters, hygiene facilities, worker training and information programs, signs and labels, and monitoring and medical surveillance programs. The proposed revision would extend the period for retention of monitoring and medical records to 40 years, or for the duration of the employee's employment plus 20 years, whichever is longer. The current retention period is 3 years for monitoring and 20 years for medical records.

Excluded from the proposal are construction activities which continue to be covered under the existing Asbestos Standard until the planned separate rulemaking for the construction industry is issued.

OSHA states that new evidence in medical literature on the hazards to health from asbestos fibers is the basis for the proposal to lower the permissible exposure level of asbestos to half a fiber per cc.

Under an OSHA contract, a study is planned to obtain economic impact and feasibility data for an inflationary impact statement. In the rulemaking process, the Administration will prepare a statement on environmental and inflationary impact.

OSHA does not give an effective date by which compliance to the revised Asbestos Standard would be mandatory. The deadline for comments to the proposal is set at December 8, 1975. However, the Asbestos Information Association/North America has advised that it has written to Secretary of Labor John T. Dunlop, requesting an additional 120 days which would provide the minimum amount of time needed for complete analysis of, and comment to, the proposal.

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CONSTRUCTION COMMITTEE PROPOSAL

Proposed rules governing occupational exposure to asbestos in the construction industry were adopted by the Standard Advisory Committee on Construction Safety and Health, subsequent to recommendations made by the Asbestos Sub-Group. The suggestions adopted included the following provisions. The 8-hour time-weighted average airborne concentrations of asbestos fibers should not exceed 2 fibers per cc. Employees should not be exposed to airborne concentrations of asbestos fibers greater than 10 fibers per cc of air, at a sampling rate of at least 2 liters per minute. Employers must maintain records of personal monitoring for at least 5 years after the termination of employment or lifetime of the employee, and at that time transmit records to the National Institute for Occupational Safety and Health. The recommendations also set forth precautions that should be taken during the spraying of asbestos; the demolition of pipes, structures or equipment covered or insulated with asbestos; and the removal or demolition of asbestos insulation or covering. The final recommendations approved by the Committee will be referred to the U.S. Secretary of Labor.

NEW EDUCATIONAL PROGRAM

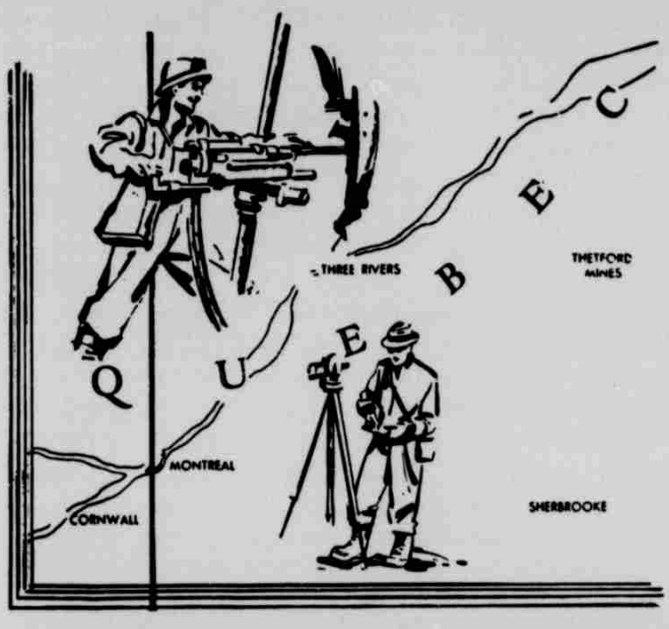
OSHA and the National Cancer Institute recently agreed to work together on a program aimed at reducing the amount of exposure to substances known or suspected to be occupational cancer-causing agents. Under the two-year agreement, OSHA will coordinate and monitor all stages of the project while NCI will supply the financing. NCI and NIOSH will provide technical assistance. Under a $192,500 contract, the National Academy of Sciences will investigate how employers are controlling exposure to carcinogens and how well workers understand the hazard. In addition, George Washington University received a $578,900 contract to produce and test a 30-minute film on occupational carcinogens. After studying the Academy's report and the impact of the film, OSHA plans to develop more educational material on job cancer for a variety of target groups.

NEW OSHA HEAD EXPECTED

Morton Corn, Ph.D., Professor of Occupational Health at the University of Pittsburgh, is expected to be confirmed by the U.S. Senate as Assistant Secretary of Labor (OSHA). He was formally nominated to the post by President Ford on October 3rd.

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EPA FINAL ASBESTOS EMISSION STANDARD

The Final National Emission Standards for Hazardous Air Pollutants — Asbestos and Mercury, promulgated by the U.S. Environmental Protection Agency, were published in the Federal Register of October 14, 1975, and are effective as of that date. Initially the standards appeared in the Register of April 6, 1973. The amendments thereto were proposed October 25, 1974.

Following are some of the highlights of the new document as it concerns asbestos. The "no visible emissions" clause for the waste disposal of asbestos materials remains in effect. Asbestos mills are exempt from the requirement to wet tailings when disposal site temperatures are below 15°F. Only asphalt concrete manufacturing plants that use commercial asbestos are affected. Local exhaust ventilation systems may be used during certain renovation operations. Containers of asbestos waste may display either an EPA or an OSHA warning label. Clarification is given of the definitions for "planned renovation" and "emergency renovation" operations. Wastes generated by operations that use sprayed-on materials containing less than 1% of asbestos by weight to insulate or fireproof buildings, structures, pipes and conduits are not covered by the new ruling.

SWEDEN BARS MANY USES FOR ASBESTOS

The Swedish government has banned some uses for asbestos, effective October 1, 1975, after physicians reported they had traced 8 deaths from lung cancer to a plant using the mineral as an insulating material. The findings involved workers at the Nohab Machine Works in Trollhattan. Ordered by the Industrial Health Board, the new regulations prohibit the use of asbestos for most purposes except as a fireproofing material.

AIA/NA LITERATURE

The following booklets are obtainable from the Asbestos Information Association/North America: Asbestos In Water — A Hazard To Health? (15¢); Asbestos In The Atmosphere — A Hazard To Health? (15¢); What You Should Know About Asbestos and Health (15¢); a six-poster series giving Asbestos Health Hints For The Workplace (40c each); and the new Handbook On Federal Regulations Governing Asbestos ($5.25 plus postage). If you have not already availed yourself of these important, informative brochures, we urge you to keep abreast of the asbestos/health issue by requesting copies directly from AIA/NA, 1660 L Street, N.W., Washington, D. C. 20036 (Telephone: 202-223-4885).

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MARKET CONDITIONS

GENERAL BUSINESS

The recovery in general business seems to be proceeding on schedule or even a bit faster than seemed likely only a few months ago. At one point the pace became so rapid that fears of inflation, tight money and renewed material shortages were voiced by some economists. However, there are now some signs that the growth rate is moderating and this development is welcomed as indicative of a slower but healthier pattern of recovery.

While most sectors of the economy are showing steady improvement, it is becoming more obvious each month that unemployment will be a "sticky wicket" for a protracted period. This is in line with predictions made some time ago but it is small consolation for the unemployed to know that, statistically, their unhappy situation is right on target with the forecasts. Thus far no one has come up with any proposals to cure this problem quickly without risking sharply increased inflation or producing other undesirable side effects. Up to now the President, with his proposed tax cut predicated on an equal decrease in government spending, shows no signs of wavering from his basic anti-inflationary stance. It remains to be seen how long this position can be maintained in the face of a 7% unemployment rate in a Presidential election year, particularly when clever political maneuvering by the Congress can make it look as though Mr. Ford alone is to blame for the persistence of unemployment as well as for the relatively slow economic recovery.

On the brighter side, the FRB index of production continues to show healthy gains and Gross National Product rose at an annualized rate of 11.2% in the third quarter, the largest quarterly increase in twenty years. New car sales are picking up although running behind last year's rates. Domestic manufacturers have introduced some smaller, more economical models which show signs of successfully competing with the small foreign cars. A leading survey indicates consumer confidence is improving substantially and this is being reflected in rising retail sales in many lines.

While business continues to improve, financial circles are still faced with some problems which contribute to unsettled conditions in the money and securities markets. Foremost from the standpoint of publicity are the financial problems of New York City. This whole scenario resembles nothing so much as a typical

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OVER A QUARTER CENTURY OF EXPERIENCE

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"cliff hanger" movie and could be viewed with amusement were it not so serious. The repercussions of a New York default would be felt throughout the country and in a goodly part of the world as well. In recognition of the severity of the situation, some of the most astute financial minds have been working full time in an all-out effort to avert such a debacle. Despite several near brushes, the City is still in business as this is written and the end result will not be known for some time.

A healthy housing industry is one of the keys to a strong, sustainable economic recovery. Thus far, this industry's statistics have moved up and down so sharply that a favorable long-term trend has yet to be established. High costs of construction are discouraging new home buyers and high rents are discouraging the occupancy, and hence the construction of new apartments. In addition, the recent rise in interest rates has started a new outflow of funds from savings institutions, tending to reduce the supply and increase the cost of mortgage money. Recovery in this industry promises to be protracted at best.

CONSTRUCTION CONTRACTS

JANUARY-SEPTEMBER 1975—For the first nine months of 1975, contracts for future construction were valued at $71.6-billion, almost identical with the $71.9-billion reported for the same period in 1974. The seasonally-adjusted Dodge Index, which uses 1967 as its 100 base, reached 165 in July and an all-time high of 208 in August. However, in September it slipped to 157, the lowest reading of the past six months. Quarterly averages of monthly contract data show a very weak first quarter, at 143, followed by a solid recovery in the second quarter, to 185, and a plateau in the third quarter, at 177.

Comparing the first nine months of 1975 with those of last year, *nonresidential* building contract value slipped 6% to $24.3-billion and *residential* contracts showed a 15% drop to $23.5-billion. The *nonbuilding* construction category, which reflects the impact of exceptionally big projects, was up 30% to $23.9-billion. In September, highway work held even with last year, electric utility projects were down sharply and sewer contracting showed a strong gain.

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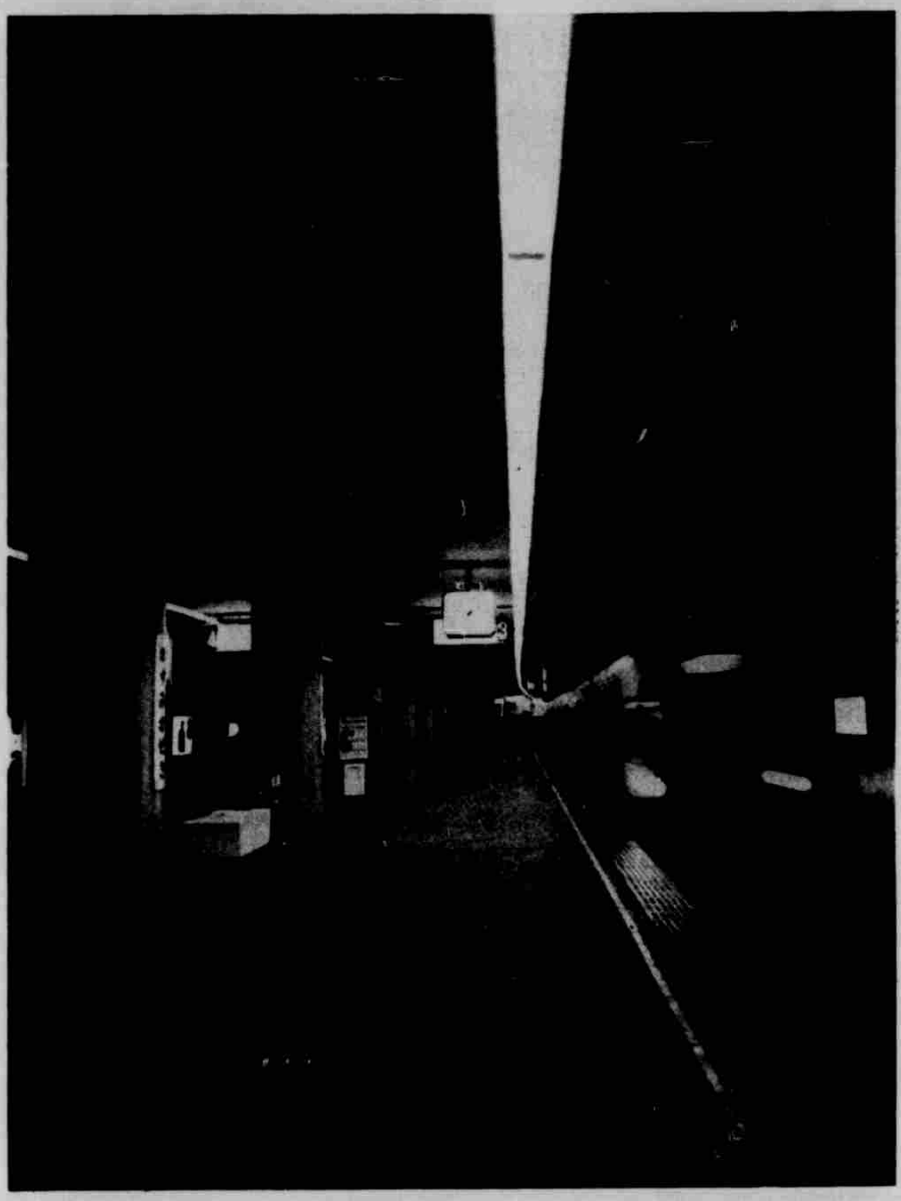
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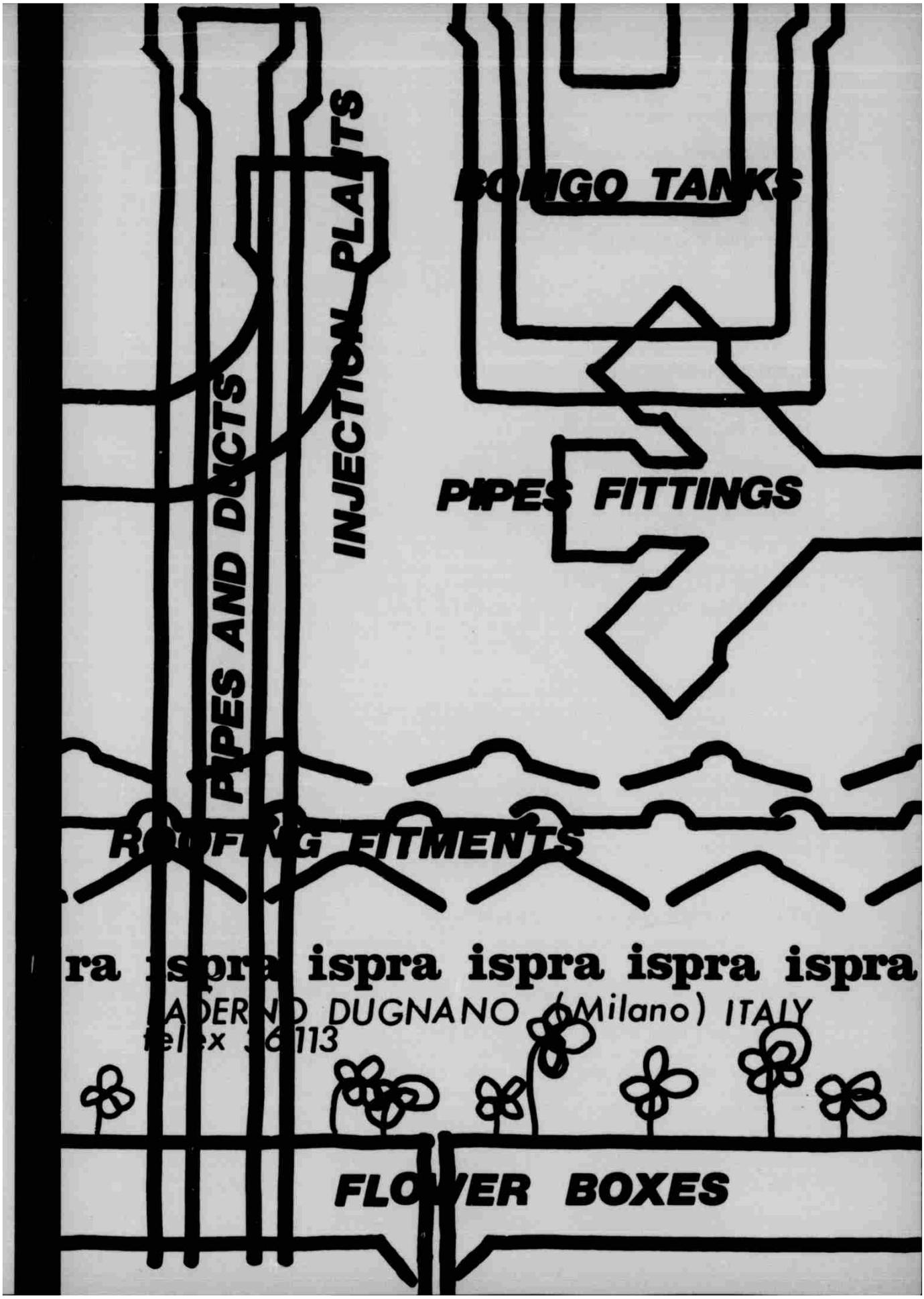
PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:		JULY 1975	
Amosite	s.tons	. .	$ . .
Crocidolite (Blue), South Africa	s.tons	1,622	641,444
Chrysotile, Crudes, Rhodesia	s.tons	154	135,253
USSR	s.tons	196	49,454
Chrysotile, Spinning Fibers, Canada	s.tons	447	362,843
Rhodesia	s.tons	362	349,735
Chrysotile, Other, Canada	s.tons	33,385	6,167,296
Mexico	s.tons	7	1,360
South Africa	s.tons	188	54,982
Other Crudes & Fibers, Canada	s.tons	134	10,803
Finland	s.tons	42	2,569
South Africa	s.tons	103	33,409
		36,640	$ 7,809,148
Manufactured Asbestos Products:			
Asbestos yarn, cloth, tape, etc.	Lb	533,051	$ 741,134
A-C pipes, tubes & fittings	Lb	1,817,408	202,487
Other a-c articles	Lb	1,458,514	264,912
Other asbestos articles		. .	531,790
			$ 1,740,323
Unmanufactured Asbestos:		JANUARY-JULY 1975	
Amosite, South Africa	s.tons	2,816	$ 1,071,798
Crocidolite (Blue), South Africa	s.tons	8,359	3,283,209
Chrysotile, Crudes, Canada	s.tons	51	7,387
Rhodesia	s.tons	1,148	979,127
South Africa	s.tons	625	310,524
Swaziland	s.tons	2,756	952,544
United Kingdom	s.tons	277	82,982
USSR	s.tons	3,897	839,325
Chrysotile, Spinning Fibers, Canada	s.tons	4,708	3,346,441
Rhodesia	s.tons	382	368,845
Chrysotile, Other, Canada	s.tons	273,876	52,434,277
Gaza Strip	s.tons	152	25,914
Mexico	s.tons	56	11,331
Rhodesia	s.tons	32	22,871
South Africa	s.tons	188	54,982
Other Crudes & Fibers, Canada	s.tons	2,823	504,149
Finland	s.tons	239	22,260
Italy	s.tons	1	4,550
Rhodesia	s.tons	576	357,486
South Africa	s.tons	424	131,132
		303,386	$64,811,134

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U.S. IMPORTS—CONTINUED

Manufactured Asbestos Products:

Asbestos yarn, cloth, tape, etc.	Lb	5,594,498	$ 7,472,045
A-C pipes, tubes & fittings	Lb	8,739,767	879,035
Other a-c articles	Lb	27,094,577	3,771,747
Other asbestos articles		. .	3,431,220
			$15,554,047

AUSTRALIAN IMPORTS/EXPORTS/OUTPUT

During the annual period *July 1974-June 1975,* 50,879 metric tons of asbestos valued at Australian $11,195,399 were *imported* into Australia, 17,180 less in tonnage but $3-million more in value than in the previous 12 months. Imports for the year to June 1973 totaled 64,968 tons. The breakdown by variety of asbestos for the latest 12-month period is: Chrysotile, 30,800 tons, $6,768,242; Amosite, 12,279 tons, $2,805,587; Other, 7,800 tons, $1,621,570. . . . . *Exports* of asbestos for the year ended June 1975 totaled 15,940 tons valued at $3,728,676, a decrease of 16,221 tons from the prior year and of 13,096 tons from the year to June 1973. . . . . *Production* from July 1974-June 1975 amounted to 15,713 tons with a value of $3,647,579. The output total reported for the prior like period was 37,770 tons. [Commonwealth Bureau of Census and Statistics, Canberra]

CANADIAN FIBER SHIPMENTS

Primary *Canadian producers' shipments* of asbestos (including tonnage for own use) amounted to 78,002 short tons in *August 1975,* down 94,860 tons from August 1974. . . . Cumulative total shipments for *January-August 1975,* at 691,987 tons, were down 522,053 tons from the same period a year earlier. The breakdown for the 1975 eight-month period shows tonnages of 508,858 from Quebec plants (down 509,767) and 183,129 from plants in Newfoundland, Ontario, British Columbia and the Yukon (down 2,286). [Statistics Canada, Ottawa]

FELT SHIPMENTS FROM CANADA

Shipments of woven and/or needled wet felts and jackets for the *First Half of 1975* amounted to 739,301 pounds valued at $9,666,890 to papermills in Canada and 408,015 pounds valued at $4,652,451 to foreign papermills. Shipments to domestic papermills of woven and/or needled felts used in asbestos-cement pipe or sheet-forming operations totaled 11,833 pounds valued at $85,331. Total shipments of asbestos, cotton or synthetic papermakers' dryer felts and fabrics were 2,287,796 square feet valued at $5,883,385 to papermills in Canada and 248,440 square feet valued at $817,194 to foreign papermills. [Statistics Canada, Ottawa]

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CYPRUS FIBER PRODUCTION

Production of asbestos from *January-June 1975* totaled 14,462 short tons valued at £1,054,610, an increase over the first half of 1974 of 2,567 in tonnage and £306,710 in value. Compared with the first six months of 1973 the quantity was down 421 tons but the value was up £184,610. [Mines Department, Nicosia]

SOUTH AFRICAN OUTPUT & EXPORTS

Production of asbestos for the *Year 1974* totaled 333,272 metric tons, compared with 334,239 tons for the year 1973. The breakdown for 1974 (with comparative 1973 differences in parentheses) is: 94,543 tons of Amosite (down 11,934 tons); 822 tons of Anthophyllite (down 68,985 tons); 82,430 tons of Chrysotile (down 71,437 tons); 155,477 tons of Cape Blue (up 153,403 tons); and no production of Transvaal Blue (down 2,014 tons). . . . *Exports* of asbestos in 1974 were valued at R51,474,972 against R44,641,131 in 1973. The values, by variety, for the latest year are: Amosite—R15,981,836; Anthophyllite—R71,011; Chrysotile—R6,231,927; Cape Blue—R29,074,334; Transvaal Blue—R115,864. The values for all varieties of asbestos exported from South Africa, except for Transvaal Blue, recorded an increase. [Department of Mines, Johannesburg]

MINING LITERATURE

1975 FACTS & FIGURES—Brief factual, statistical sketch of the mining industry in Canada and its importance to the citizens of that Country. [Complimentary copies, written in French or English, are available from The Mining Association of Canada, 20 Toronto Street, Toronto, Ontario M5C 2C2]

ASBESTOS & ASBESTOS MINING—Part of a series of articles currently appearing in the Chamber of Mines Journal titled "Background To Mining In Rhodesia." [Contact the Chamber of Mines Journal, P. O. Box 1683, Salisbury, Rhodesia]

THE IMPACT OF TAXATION & ENVIRONMENTAL CONTROLS ON THE ONTARIO MINING INDUSTRY—Mineral Policy Background Paper; contains many figures and tables. [$3.00 from the Mines Publications Office, Ministry of Natural Resources, Whitney Block, Queen's Park, Toronto, Ontario; make checks payable to Treasurer of Ontario]

MINERAL DEPOSIT STUDIES, MINERAL POTENTIAL EVALUATION & REGIONAL PLANNING IN ONTARIO—Paper by J. A. Robertson. [75¢ from the Mines Publications Office; address as given in above listing]

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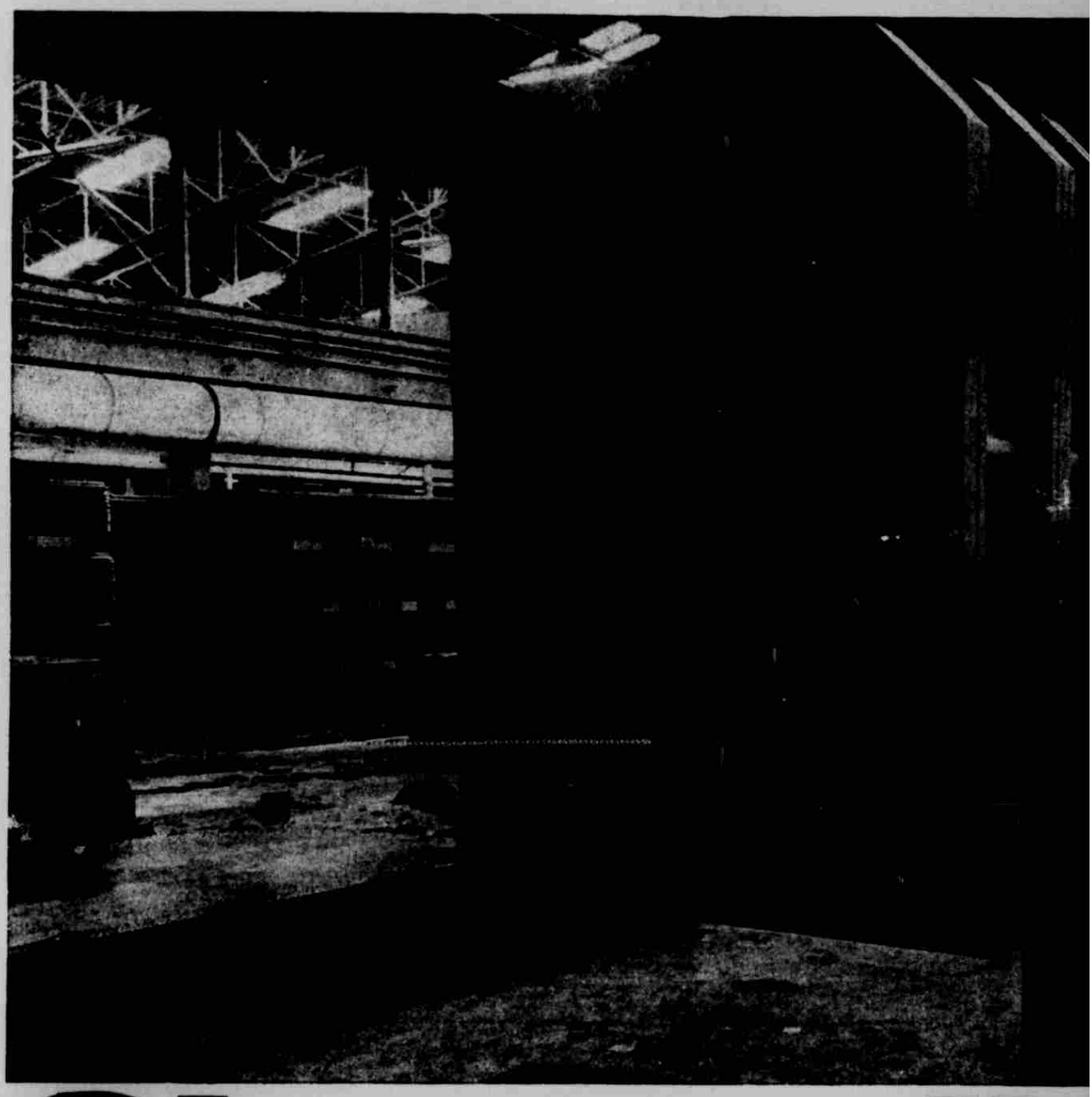
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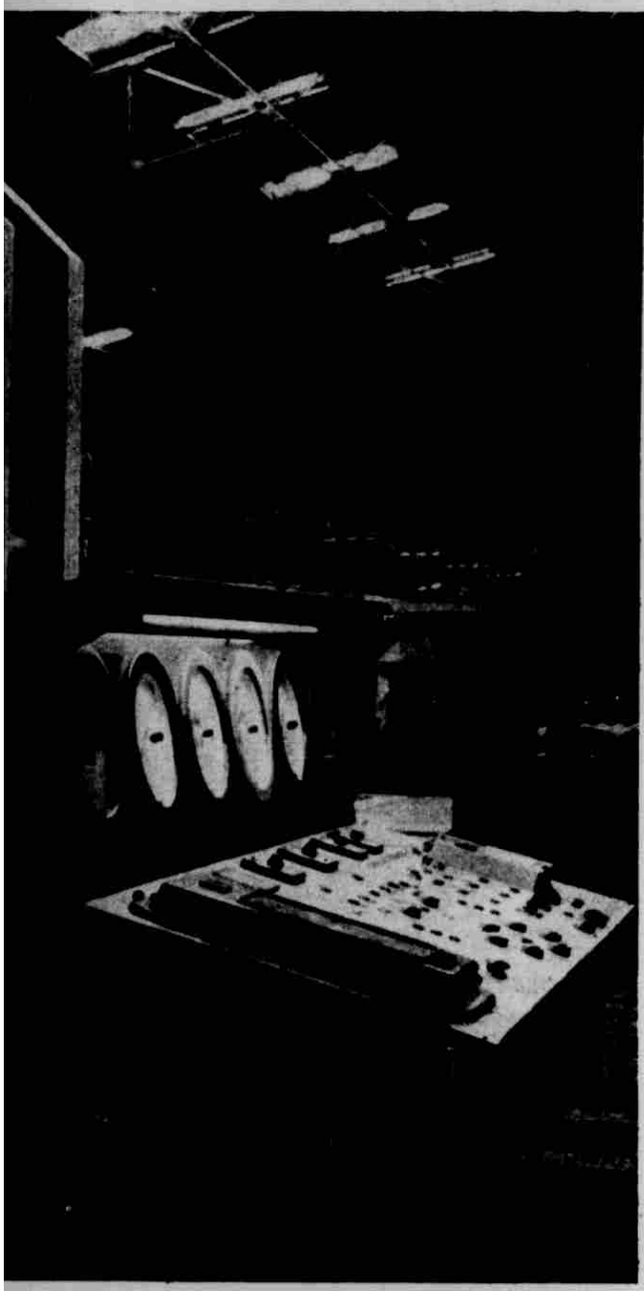
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EXPORTS FROM THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:		JULY 1975	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,121	$ 334,855
Waste and refuse	s.tons	1,996	290,061
		3,117	$ 624,916
Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	1,889,555	$ 470,407
Other a-c fiber-cement articles	Lb	2,583,041	547,992
Gaskets	Lb	14,896	64,366
Packing	Lb	466,531	889,092
Heat or sound insulation		. .	441,132
Textiles & yarns	Lb	884,424	631,141
Protective clothing		. .	20,608
Mfrs. other than friction materials		. .	506,978
Clutch facings & linings for auto. use	No	53,215	72,433
Other clutch facings & linings	No	16,096	20,984
Brake linings for automotive use	Lb	711,588	640,869
Other brake linings	Lb	168,091	239,214
			$ 4,545,216

Unmanufactured Asbestos:		JANUARY-JULY 1975	
Fibers not further processed than beaten, washed or graded to length	s.tons	8,256	$ 3,604,625
Waste and refuse	s.tons	13,670	2,515,970
		21,926	$ 6,120,595
Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	14,074,230	$ 2,424,780
Other a-c fiber-cement articles	Lb	27,765,705	5,170,626
Gaskets	Lb	333,837	1,096,490
Packing	Lb	3,079,250	6,951,288
Heat or sound insulation		. .	3,055,079
Textiles & yarns	Lb	5,359,071	4,068,125
Protective clothing		. .	287,841
Mfrs. other than friction materials		. .	6,428,669
Clutch facings & linings for auto. use	No	541,337	886,291
Other clutch facings & linings	No	431,037	238,096
Brake linings for automotive use	Lb	4,345,068	4,002,145
Other brake linings	Lb	1,329,280	1,927,954
			$36,537,384

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EXPORTS FROM CANADA

FROM: STATISTICS CANADA

JULY 1975
Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	. .	198	14,287	8,181
Eastern Europe	. .	. .	220	240
Middle East	. .	. .	550	1,033
Africa	. .	. .	. .	200
Asia	. .	202	3,652	2,627
Oceania	. .	. .	4,558	18
So. & Cen. America & Antilles	. .	80	3,965	1,082
United States	. .	635	10,393	23,516
	. .	1,115	37,625	36,897

The total amount of unmanufactured asbestos exported in *July 1975* was 75,637 short tons, valued at $19,743,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 222,000
Asbestos brake linings & facings	124,000
Asbestos-Cement building materials	672,000
Other basic asbestos products	236,000
	$ 1,254,000

JANUARY-JUNE 1975

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	54	5,062	108,059	74,285
Eastern Europe	. .	430	7,113	1,309
Middle East	. .	40	7,458	3,579
Africa	. .	. .	4,330	559
Asia	45	781	34,656	42,169
Oceania	. .	11	20,785	1,784
So. & Cen. America & Antilles	. .	1,213	42,801	18,836
United States	1	4,209	95,330	181,715
	100	11,746	320,532	324,236

The total amount of unmanufactured asbestos exported in *January-July 1975* was 656,614 short tons, valued at $160,140,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 1,814,000
Asbestos brake linings & facings	1,526,000
Asbestos-Cement building materials	3,988,000
Other basic asbestos products	2,170,000
	$ 9,498,000

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AAA	. .	1100.00
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 August 1, 1975 *Canadian Dollars*

	Cassiar Mine	
C-1		$2916.00
AAA	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1685.00
AA	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1340.00
A	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1020.00
AC	Grade—Nonferrous Spinning Fiber/Canadian Group 3	735.00
AK	Grade—Asbestos Cement Fiber/Canadian Group 4	524.00
AS	Grade—Asbestos Cement Fiber/Canadian Group 4	454.00
AX	Grade—Asbestos Cement Fiber/Canadian Group 5	416.00
AY	Grade—Asbestos Cement Fiber/Canadian Group 5	292.00
AZ	Grade—Asbestos Cement Fiber/Canadian Group 6	216.00
	Clinton Mine	
CP	Grade—Asbestos Cement Fiber/Canadian Group 4	492.00
CT	Grade—Asbestos Cement Fiber/Canadian Group 4	445.00
CY	Grade—Asbestos Cement Fiber/Canadian Group 5	292.00
CZ	Grade—Asbestos Cement Fiber/Canadian Group 6	216.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of June 16, 1975 *U.S. Dollars*

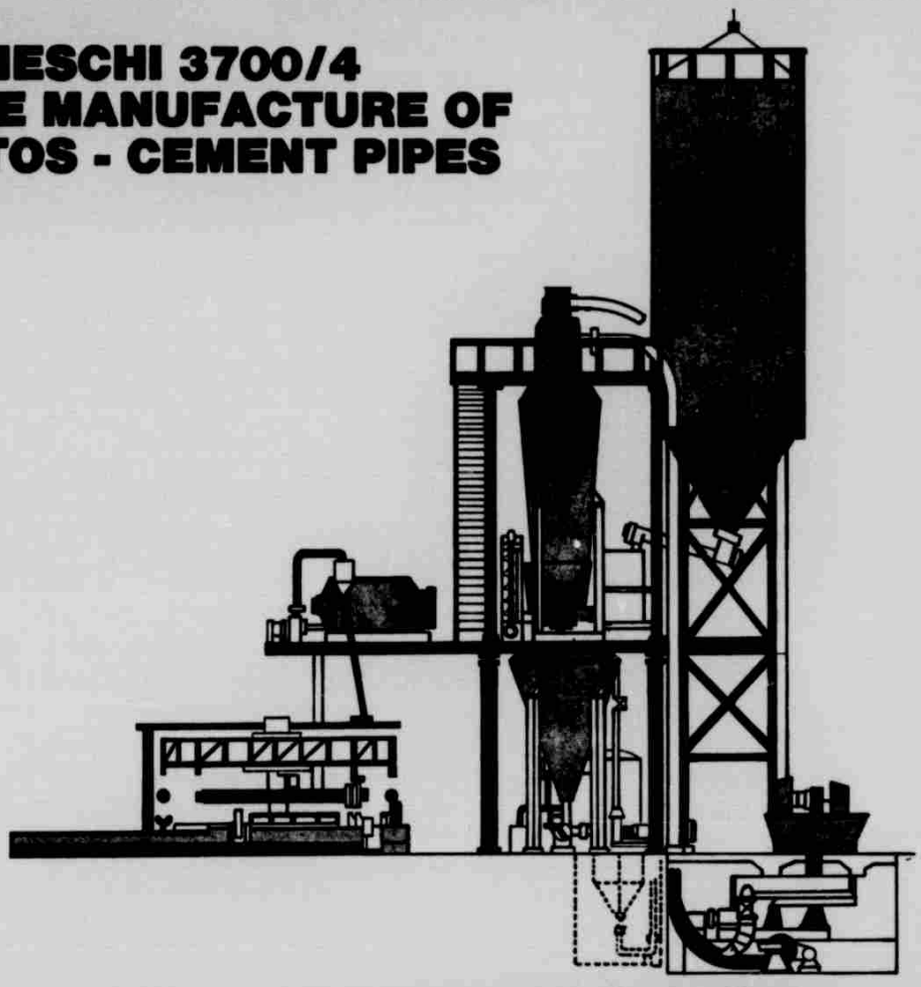
Grades 4A thru 4T—Fiber	$360.00—$	608.00
Grades 5D thru 5R—Fiber	238.00—	280.00
Grade 6D—Waste	. .	173.00
Grades 7D thru 7T—Shorts	77.00—	150.00
Grade 7TF—Floats (Shorts)	. .	66.00
Grade 8S—Shorts	. .	53.00
Hooker No. 1—packaged in 50-lb. woven poly. bags		850.00
Hooker No. 2—packaged in 100-lb. woven poly. bags		425.00

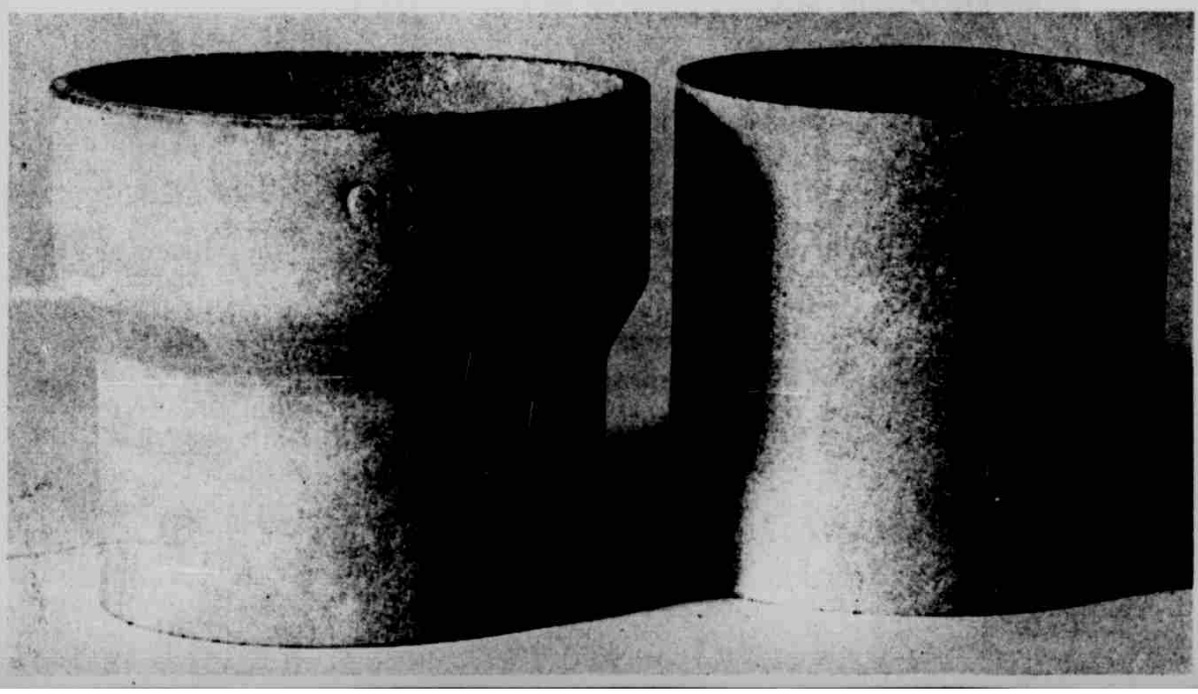
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THE MINING SCENE

QUEBEC WORKERS BACK ON THE JOB

On October 20, 1975, about 3,500 asbestos miners at Thetford Mines, Quebec, went back to work following a settlement of the seven-month-long strike between five companies and two unions. The miners are affiliated with the Confederation of National Trade Unions and the United Steelworkers of America. Mining companies involved were Asbestos Corporation Ltd., Bell Asbestos Mines Ltd., Carey-Canadian Mines Ltd., Lake Asbestos of Quebec Ltd. and National Asbestos Mines Ltd. The reason for the surprisingly-quick agreement appears to be the economic clampdown announced by Prime Minister Trudeau which as of midnight October 15th limits wage increases to 8% to cover inflation plus 2% for increased productivity.

Under the terms of the settlement, basic hourly rates for the miners will be raised immediately from $3.73 to $5.21 — and to $6.59 by September 1, 1977. Immediate and future cost of living increases and other factors are also involved including a lump-sum-payment averaging about $520.00 to cover the time from expiration of the old contract to the beginning of the strike. The two-year contract runs to October 15, 1977.

Newspaper reports indicate the agreement amounts to a 76% increase for the workers, although a spokesman for the Quebec Asbestos Mining Association says that over the two-year duration of the contract the increase will be more like 45% to 50%.

The contract is valued at about 10% higher than that of Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, who, without a strike, settled in February with 2,000 members of a union affiliated with the Centrale des Syndicats Democratiques.

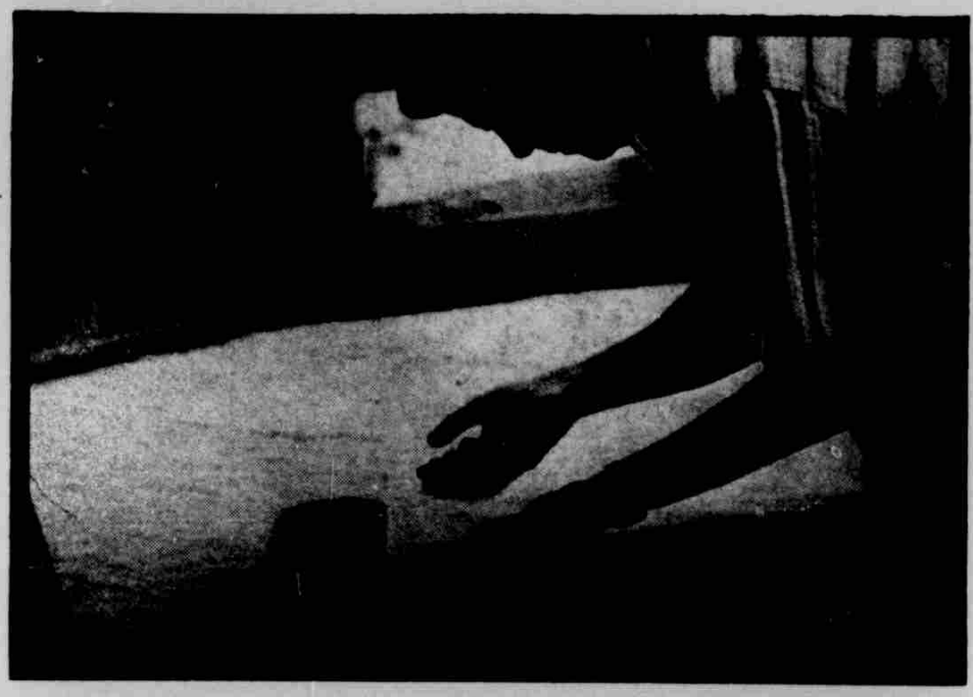
COPPEROPOLIS MINE TO REOPEN

A group of American and German investors have purchased the Chrysotile asbestos mine and mill, located at Copperopolis, California, from H. K. Porter Company, Inc. The acquisition became final October 24, 1975.

The name of the new company is *Calaveras Asbestos Ltd.* (CAL) and its Managing General Partner is *Calaveras Natural Resources* (CNR). The installation of necessary environmental equipment will begin immediately and production of Grades 4, 5, 6 and some 7's is expected to commence in early 1976, possibly by March 1. The asbestos produced by CAL will be primarily for use in the manufacture of asbestos-cement pipes and sheets.

Gordon A. Coats, of San Francisco, is General Manager of CAL and President of CNR. Other appointments include Richard Harris as Vice

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President, Robert O. Littlejohn as Operations Manager, Daryl Larsen as Controller and Mike Del Orta as Director of Purchasing.

H. K. Porter, which had owned a 92.5% interest in the former Pacific Asbestos Corporation, had permanently closed the plant and mine on April 5, 1974.

OPENING A MINE IS EXPENSIVE

According to a report to shareholders presented at the Annual Meeting of *United Asbestos Inc.*, the asbestos mine at Matachewan, Midlothian Township, Ontario, will now cost $33-million to bring into production. An additional $3-million will be borrowed from the Mercantile Bank of Canada which brings United's loan for the project to $18-million. In addition, the company has put $10-million of its own funds into the project and $5-million has been borrowed from its asbestos distributor in Japan—Kanematsu-Gosho (Canada) Ltd. It was also reported that another distributor is ready to loan $6-million, with repayment to be made in asbestos fiber.

Located about 40 miles south of Timmins, the mill has a rated capacity of 100,000 tons a year. Indicated ore reserves are 150-million tons down to the 1000-foot level, of which 30-million tons to 400 feet have already been engineered for mining. At its present rated output, the mine is expected to eventually yield double the income being received from the joint venture with Lake Asbestos of Quebec Ltd. at Black Lake. [The Northern Miner]

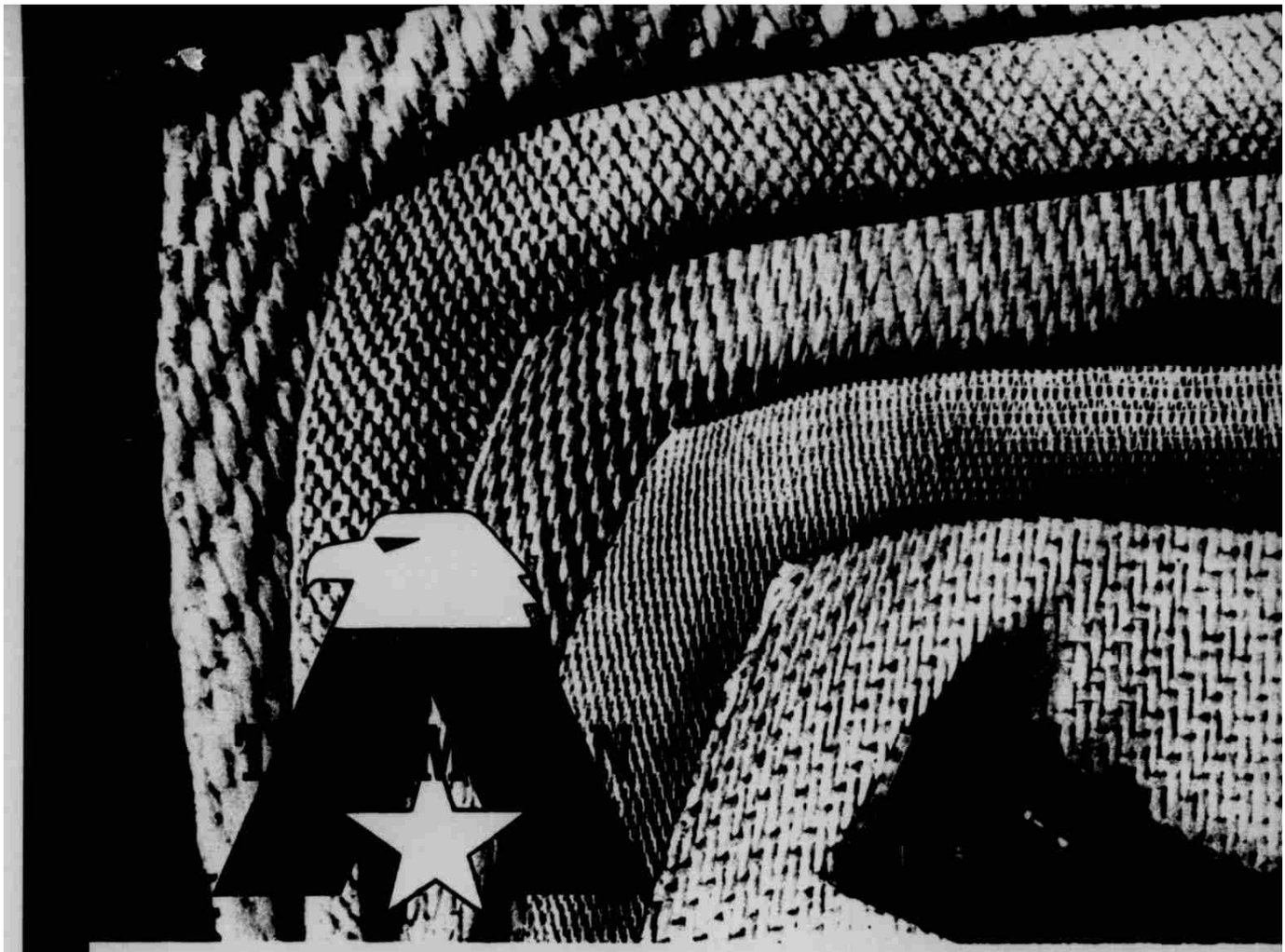
"A" DEPOSIT STILL UNDER STUDY

In a working report issued in August by *Brinco Ltd.*, it was estimated that before financing and certain working capital requirements, it would cost about $260-million (Canadian) to bring into production, within three years, the "A" asbestos deposit of *Abitibi Asbestos Mining Co. Ltd.*, located at Maizerets Township, near Amos, Quebec. The operating model on which the estimate is based envisages mining 225-million short tons of asbestos-bearing rock at a maximum rate of 25-million tons per year. The open-cast operation would support a milling rate of 7-million tons a year (and a total throughput of 95-million tons of asbestos-bearing rock with an average gross value of $9.00 per ton based on January 1975 fiber prices. The report adds that the development of a new model of the distribution of fiber values in the deposit is under way which will lead to a better estimate of ore tonnages and values within the deposit.

The company is currently evaluating the impact of recently-proposed Quebec regulations on the quality of the occupational environment and of the new Quebec and Federal legislation for taxation of mining profits.

Reaction to fiber from the "A" deposit from potential customers is reported to be favorable. [Mining Journal]

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Close—October 21, 1975

Abitibi Asbestos	*$1.15	G&W (pfd 3.87)	75
Advocate Mines	*$1.55	G&W (pfd 5.75)	67½
Armstrong Cork	23⅛	IC Industries	15⅜
Armst. Cork (pfd 3.75)	45	IC Ind (pfd 6)	72½
Asarco	13⅞	IC Ind (pfd 3.50)	34⅜
Asbestos Corporation	*$19.00	Jim Walter Corporation	31¾
Bendix	44¾	Jim Walter (pfd 1.60)	35¼
Bendix (pfd 3)	67	Johns-Manville	20¾
Carlisle	11	Kennecott Copper	29¼
Cassiar Asbestos	*$5.625	Maremont	18½
Cerro Corporation	16¾	McAdam Mining	*34¢
Certain-teed Products	11¾	National Gypsum	11⅛
Charter Consolidated	**167	Pathfinder	*22¢
Conwest	*$2.60	Porter, H. K. (pfd 5.50)	65
Flintkote	15	Raybestos-Manhattan	27
F-kote (pfd-A 4.50)	50¾	Rio Algom	*$29.25
F-kote (pfd-B 2.25)	25¾	Royal Industries	5⅝
GAF Corporation	10	Supradur	4⅝ Bid; 5⅛ Asked
GAF (pfd 1.20)	15½	Union Carbide	58⅛
Garlock	22⅞	Uniroyal	[illegible]⅜
Gulf & Western	21⅛	Uniroyal (pfd 8)	76½
G&W (warrants)	4⅜	United Asbestos Inc.	4⅞
		Woodsreef Minerals	*40¢

* Canadian Currency
** London—in pence

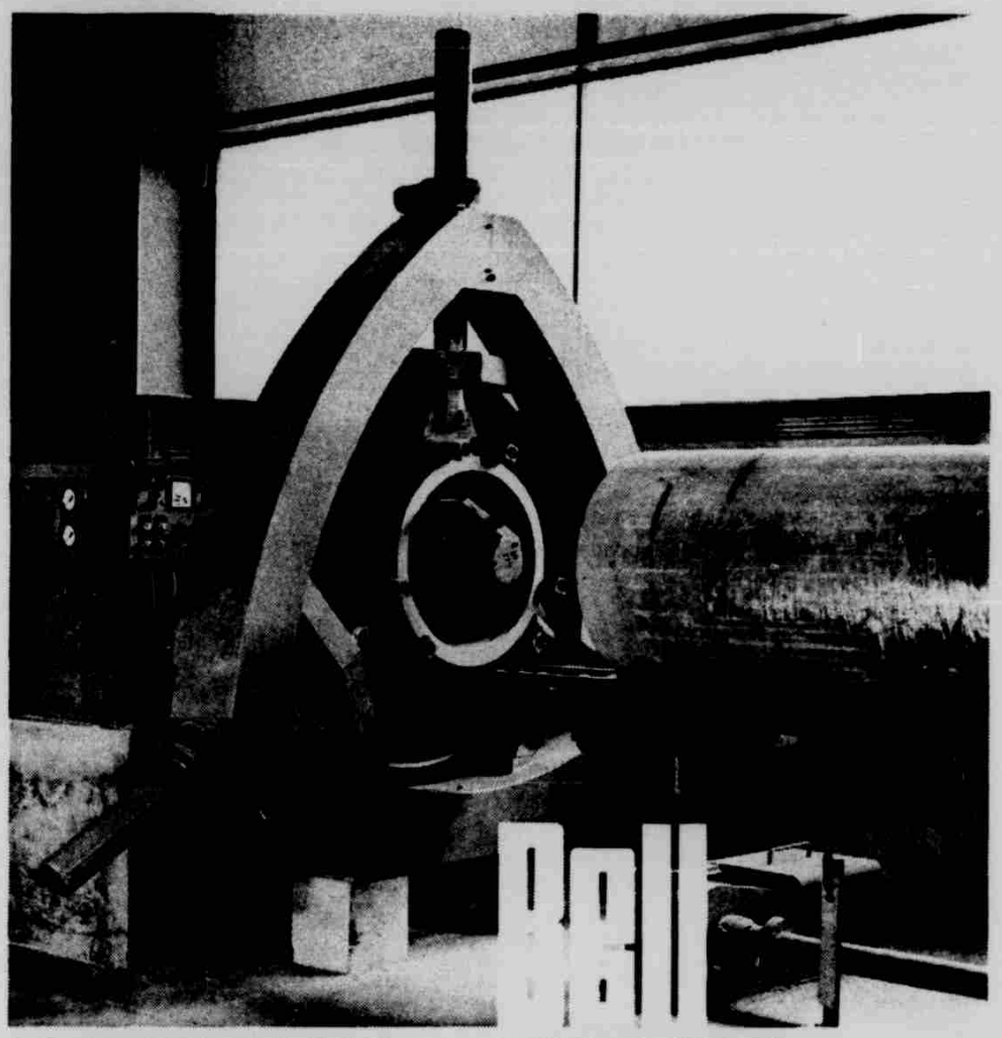
Sources: The Wall Street Journal & The Northern Miner

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; $20.95 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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▲ Combined Turning and cutting-off lathe for sockets and pipes
Pipe nominal diameter: 400—1200 mm

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CH—6010 Kriens/Lucerne
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BIRTHDAYS & PROMOTIONS

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

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

D. E. Hillier, Director of Environmental Engineering, Johns-Manville Corporation, Denver, Colorado, December 19.

George J. Pecaro, a Director, The Flintkote Company, White Plains, New York, December 20.

Jeremiah J. Attridge, Director of Advertising for the Pipe, Agri-Turf, Development and International Divisions, Johns-Manville Corporation, Denver, Colorado, December 23.

Dr. Stephen Holmes, Secretary, U.K. Asbestosis Research Council, Rochdale, Lancashire, England, December 23.

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

J. E. Hesse, Senior Vice President-Production and Engineering, Johns-Manville Corporation, Denver, Colorado, December 25.

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

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

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

P. A. Osborne, Managing Director, Small & Parkes Ltd., Manchester, Lancashire, England, December 28.

William B. Hoffman, Vice President-Manufacturing, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, December 29.

F. P. Parkes, a Director, Cape Industries Ltd., London, England, December 29.

John L. Cole, Works Manager, Wunderlich Ltd., Sunshine, Victoria, Australia, January 1.

C. R. Harris, Project Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, January 1.

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

Joseph A. Munder, Jr., Mid-West Regional Manager, Carey-Canadian Mines Ltd., Plano, Illinois, January 2.

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

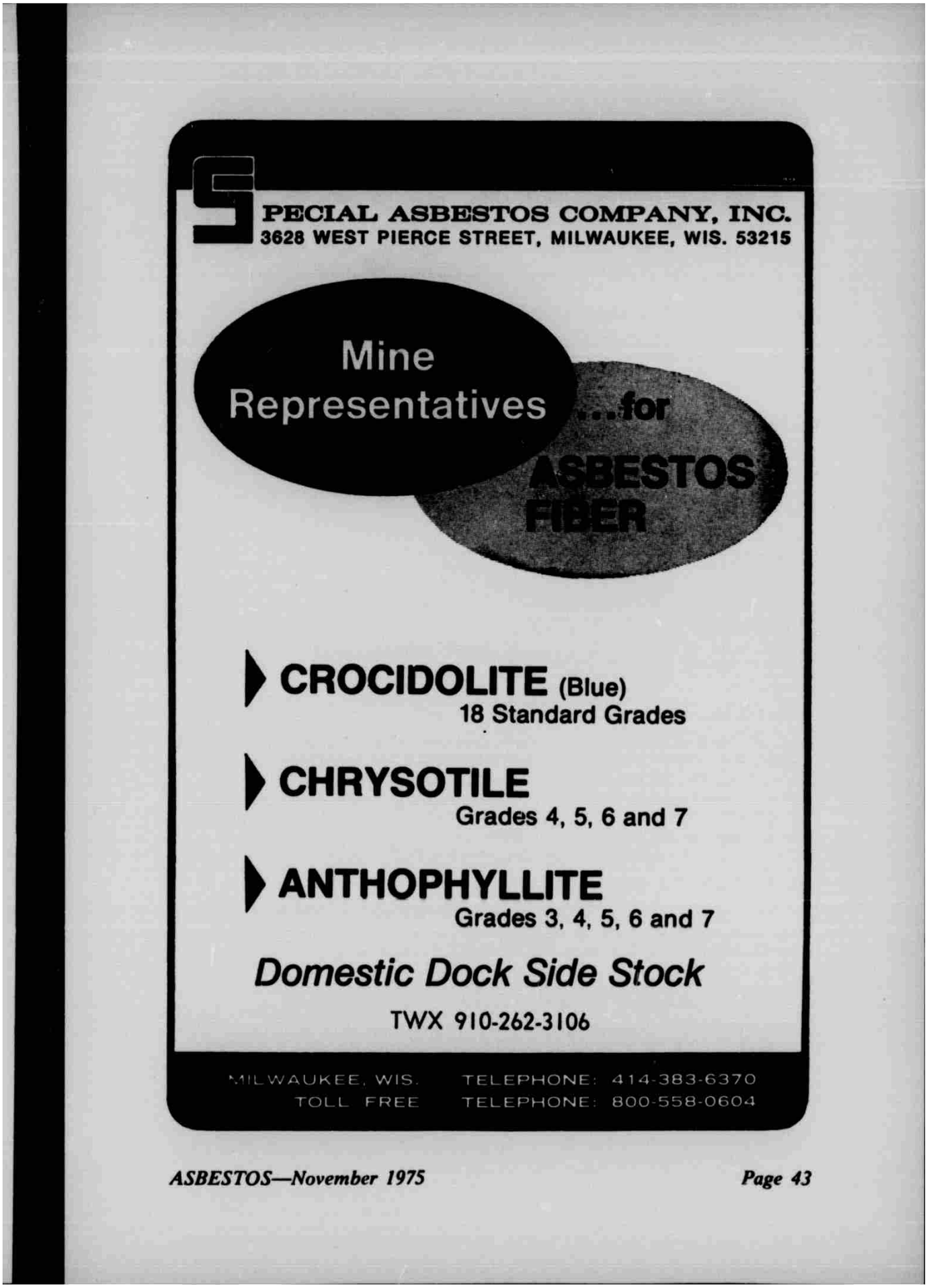
Edmund M. Fenner, Director-Technical Relations, Environmental Affairs Department, Johns-Manville Corporation, Denver, Colorado, January 4.

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

J. A. Campbell, Jr., Sales Manager, Refractory Products Department, Johns-Manville Corporation, Toledo, Ohio, January 5.

George J. Haufler, President & Chief Operating Officer, Certain-teed Products Corporation, Valley Forge, Pennsylvania, January 8.

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J. A. Kerns, Sales Manager, Original Equipment Division, RM Friction Materials Company, Raybestos-Manhattan, Inc., Trumbull, Connecticut, January 12.

Alexander Smith, Vice President-Sales, Southern Asbestos Company, Charlotte, North Carolina, January 13.

BELL ASBESTOS MINES LTD.

Walter H. Smith and *Jean Marc Leblond* have assumed new duties, following their recent appointment as Sales Managers for Bell Asbestos Mines.

JAMES HARDIE ASBESTOS LTD.

K. D. MacFarlane was appointed a Director of James Hardie Asbestos and at the same time became Chief Executive Officer of James Hardie & Co. Pty. Ltd. He retains his position as General Manager-Operations of the latter company.

JIM WALTER CORPORATION

W. L. Turner was elected by the Board of Directors as Executive Vice President. He had been a Corporate Senior Vice President and President of the U.S. Pipe Division of Jim Walter. . . . . *Bartlett G. Bretz*, who succeeded Mr. Turner as President of U.S. Pipe, was also named a Vice President and Group Executive of the parent company.

JOHNS-MANVILLE CORPORATION

Richard A. Stapleton is now General Manager of the Industrial Products Division, responsible for the insulations, contracts and refractories businesses. He joined Johns-Manville in 1941 as a Salesman. . . . *Jack R. Kingery* was named Vice-President and General Marketing Manager for the Acoustical Ceiling Systems Department of J-M's Architectural & Engineered Products Division.

H. K. PORTER COMPANY, INC.

Edward P. Evans was elected Chairman of the Board, succeeding his father, *Thomas Mellon Evans*, who became Chairman of the Executive Committee. *J. S. Morrow* remains President and Chief Operating Officer. Mr. Edward Evans had been a Vice President of Evans & Co., a New York stock brokerage firm. . . . *Donald W. Buckelew* has succeeded *R. D. Sigler* as Sales Manager for Aeroduct flexible ducting products at the Chanute Works. Mr. Sigler was recently made Works Manager of the manufacturing facility at Chanute, Kansas. . . . *Edwin L. Coleman* was named President and Chief Executive Officer of Georgia Supply Company, Savannah and Perry, Georgia, a general line industrial distributor in which H. K. Porter had recently acquired controlling interest.

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PRODUCT, PROCESSING & EXPLOSIVES LITERATURE

CIM PAPERS—Recent issues of the "CIM Bulletin" carried the following articles: Development of the Control System for the Jeffrey Mine's Asbestos Processing Complex (8 pages); Operational Parameters, Design Concepts and Pre-Installation Testing for a New Asbestos Processing Complex at the Jeffrey Mine (6 pages); Association of Trace Metals with Chrysotile Asbestos (8 pages); High-Energy Impact Rock-breaking (8 pages); and Design and Structure of Geological Data Banks for Regional Mineral Potential Evaluation (8 pages). [For reprints, contact the Canadian Institute of Mining and Metallurgy, 1117 Ste. Catherine Street West, Montreal H3B 1J3, Quebec, Canada]

ASBESTOS BULLETIN REPORTS—The ensuing items were listed in various editions of the "Asbestos Bulletin": Spheroidal Asbestos from Qilla, Charsadda Tehsil, Pakistan (2 pages); Examination of Water Recycled in Asbestos Cement Plants (6 pages); Industrial Uses of Asbestos (6 pages); and Tensile Strength of Freshly Moulded Asbestos-Cement Sheets (3 pages). [For further information, write to Astex Publishing Company, 22/23 North Street, Guildford, Surrey GU1 4TA, England]

THE EXPLOSIVES ENGINEER THROUGH THE YEARS 1923-1961—Compilation of random selections of items that will bring a tinge of nostalgia to the veteran powder man and a spark of interest to the newcomer in the field. [68 pages; $2.00; Hercules, Inc., 461 Delaware Trust Building, Wilmington, Delaware 19899]

PHYSICO-CHEMICAL METHODS OF MINERAL ANALYSIS—Edited by A. W. Nicol of the University of Birmingham; of interest to analytical, physical and inorganic chemists, geologists, applied spectroscopists, etc. [484 pages; $34.50; Plenum Publishing Corporation, New York City; can be ordered through ASBESTOS Magazine]

UILI DIRECTORY 1975—Records the international activities of the Union Internationales des Laboratoires Independants; lists names, addresses and fields of interest of each member. [DM10.00; UILI, Ashbourne House, Alberon Gardens, London NW11 OBN, England]

PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON THE PHYSICS AND CHEMISTRY OF ASBESTOS MINERALS—Available at $20.00 per copy (in Canadian or U.S. Dollars), plus postage fees; orders for shipments to Europe, the Middle East and Africa should be placed with Mr. Bernard Lincoln, Turner & Newall Asbestos Fibre Laboratory, P. O. Box 22, Trafford Park, Manchester M17 1RV, England; orders for mailing to North America, South America and the Far East should be directed to Mr. Gontran Foy, Quebec Department of Natural Resources, 1180 Dufresne Street, Quebec City, G1N 1X7, Canada.

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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 1,399,335—Fire-reinforced structural shapes of good moldability, machinability and strength are formed from a mixture of 12.5-85% by weight of ground granulated blast-furnace slag, up to 32% of calcium silicate, up to 75% of free silica, up to 27.5% of calcium sulfate and 5-50% of Chrysotile asbestos; H. G. Butler & J. H. Hampshire; assigned to TAC Construction Materials Ltd., July 2, 1975; 6 pages.

British 1,399,336—In the manufacture of asbestos fiber-reinforced sheets from the composition described above, a layer of the wet mix is applied to a conveyor felt and is subsequently applied to a rotating cylinder onto which it is wound; uniform distribution of the material is effected on the conveyor felt; A Ferguson & A. M. Perkins; assigned to TAC Construction Materials Ltd., July 2, 1975; 3 pages.

Brisith 1,401,440—A composition for forming improved linings or moldings for thermal reactors or like apparatus comprises 25-85% by weight of exfoliated vermiculite, 5-25% of Chrysotile asbestos, 10-50% of aqueous sodium silicate, up to 15% of fine silica and optionally a minor amount of water-insoluble silicate formed in-situ; D. A. Stirling; assigned to TAC Construction Materials Ltd., July 30, 1975; 3 pages.

British 1,401,830—Heater units, fan shrouds or other shapes for use in automobiles are molded from a mixture of (1) about 60 parts by weight of polypropylene, (2) about 40 parts of Amosite asbestos and (3) as a stabilizer, about 0.6 part each of a phenolic antioxidant, a synergistic sulfur compound and boric acid or zinc borate; L. F. Parks; assigned to Cape Asbestos Fibres Ltd., July 30, 1975; 3 pages.

British 1,402,424—A fire retardant composition for insulating pipe work and storage tanks in hydrocarbon storage depots consists of (1) about 100 parts by weight of polybutene polymer, (2) 30-200 parts of 2, 4, 6-tribromophenol as a tackifying resin, (3) up to 150 parts of a processing oil and (4) up to 650 parts of asbestos or other suitable filler or fillers; M. J. Welch, P. J. C. Counsell & R. Bates; assigned to Evode Ltd., August 6, 1975; 5 pages.

Canadian 970,544—Reinforced asbestos yarn is produced by slitting ribbons from an asbestos paper containing transversely spaced, parallel, longitudinally extending strands of glass fibers, the ribbons being wetted and then twisted along with asbestos, nylon, rayon or other suitable fibers so as to form a composite yarn; I. H. Sloane, A. L. Mailhot, R. L. Baliveau & H. L. Sawhney; assigned to Johns-Manville Corporation, July 8, 1975; 15 pages.

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Canadian 970,581—An impervious sheet for protecting the surfaces of storage reservoirs, ponds, etc., against evaporation comprises a non-woven polyolefin fabric or mat fused externally on the side which is to be laid against the liquid surface and coated on its unfused side with a mixture of asbestos and cut-back asphalt; C. R. Bresson & F. D. Spaulding; assigned to Phillips Petroleum Company, July 8, 1975; 18 pages.

Canadian 972,888—A low-cost but satisfactory composition for insulating metal ingot castings comprises preferably 5-24% of mineral wool or slag wool, 2-15% of a mixture of Amosite and Chrysotile asbestos, 3-11% of cellulose fibers or wood pulp, 2-10% of phenol formaldehyde and the remainder sand or other granular refractory filler; J. F. McCarthy; assigned to Treesdale, Inc., August 12, 1975; 12 pages.

U.S. 3,899,300—An insulation sheet for use in emission control devices for internal combustion engines is formed from a mixture of 10-20% by weight of a high molecular weight butadiene copolymer, up to 15% of lithium polysilicate and the balance substantially all parallel-oriented Chrysotile asbestos fibers; G. D'Olier; assigned to Raybestos-Manhattan, Inc., August 12, 1975; 6 pages.

U.S. 3,900,434—An improved wallboard tape joint composition comprises 2-20% by weight of asbestos, 5-20% of ground mica, 55-80% of ground limestone, 0.25-1% of a water-soluble cellulose ether and 1.5-5% of a polyacrylamide of a low degree of hydrolysis and a narrowly defined range of molecular weight; F. B. Bruschtein & D. L. Lyftgot; assigned to The Dow Chemical Company, August 19, 1975; 4 pages.

U.S. 3,910,814—In the manufacture of asbestos matrix for use in fuel cells or electrolysis cells, a slurry of shredded Arizona Chrysotile in water or methanol is formed into a mat by passing the slurry through a properly sized porous plaque having a piece of filter paper on top, the mat dried and the dried mat rolled to yield desired thickness and surface finish; H. McBryar; assigned to the U.S. National Aeronautics and Space Administration, October 7, 1975; 6 pages.

U.S. 3,895,143—A sheet material for wrapping pipe, forming gaskets, etc., is fabricated from a mixture of 5-30% by weight of asbestos fibers, 2-20% of a neoprene latex or acrylonitrile-butadiene latex and the remainder finely divided lead; H. J. Tarlow; assigned to Nicolet Industries, Inc., July 15, 1975; 7 pages.

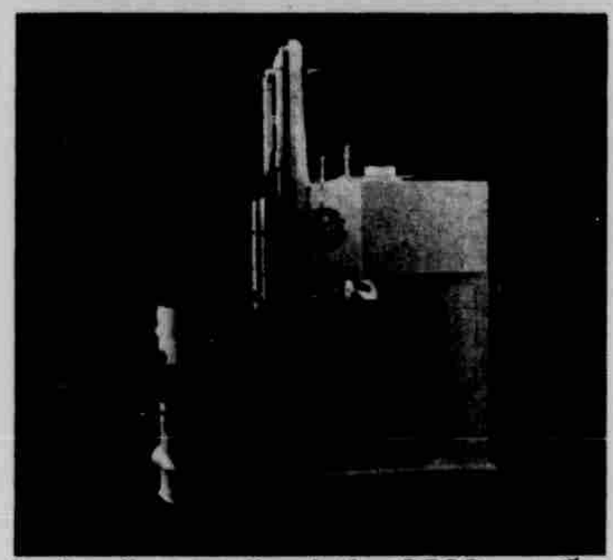
WHEN WRITING TO THIS MAGAZINE, please be certain to include "P. O. Box 471" in the mailing address and position it immediately above "Willow Grove, Pa. 19090." This is a new ruling announced by the U.S. Postal Service, effective December 1, 1975.

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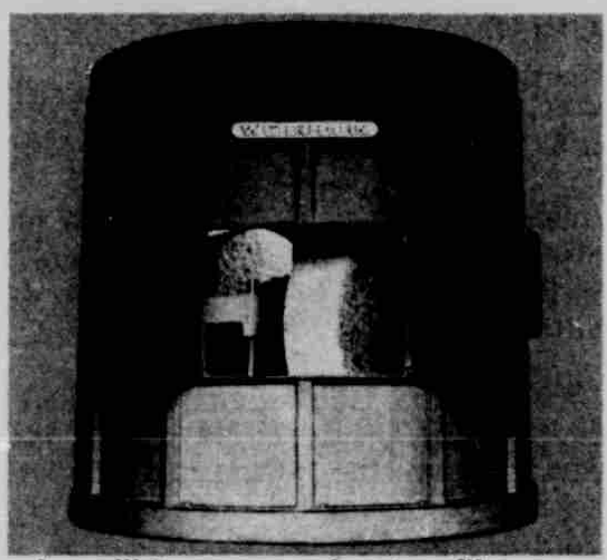
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CALENDAR OF EVENTS

1975 PEECON/WEST—Pollution Engineering and Equipment Exposition and Conference; International Hotel, Los Angeles, California, *December 4-5.*

FINE POWDER AND DUST HANDLING—8th Annual Bulk Materials Handling Conference; School of Engineering, University of Pittsburgh, Pittsburgh, Pennsylvania, *December 10-11.*

ECONOMIC EVALUATION AND INVESTMENT DECISION METHODS FOR PETROLEUM, MINERAL AND GENERAL INVESTMENT PROJECTS—Short Course; Colorado School of Mines, Golden, Colorado, *December 15-19.*

INDUSTRIAL RESEARCH AND DEVELOPMENT IN COUNTRIES WITH LIMITED RESOURCES—Seminar; Beer-Sheba, Israel, December 15-22.

STRUCTURAL DESIGN OF ASPHALT PAVEMENTS—Call for Papers for 4th International Conference to be held August 21-26, 1977; deadline for paper offers is *January 1, 1976.*

MINERAL MANAGEMENT—Seminars at McGill University, Montreal, Quebec: Union-Management-Employee Relations in the Mineral Industry, *January 12-14;* The Development of Supervisory Personnel for the Mineral Industry, *January 26-28.*

INDUSTRIAL HYGIENE—Training Course co-sponsored by the American Industrial Hygiene Association and the National Institute for Occupational Safety and Health; Temple University, Philadelphia, Pennsylvania, *January 19-23.*

RESOLVING CORROSION PROBLEMS IN AIR POLLUTION CONTROL EQUIPMENT—Seminar jointly sponsored by the Air Pollution Control Association, the Industrial Gas Cleaning Institute and the National Association of Corrosion Engineers; Hyatt-Regency Hotel, Atlanta, Georgia, *January 20-23.*

VOLCANIC PROCESSES IN ORE GENESIS—Joint Meeting of the Volcanic Studies Group and The Institution of Mining and Metallurgy (U.K.); London, England, *January 22.*

BAU 76—Fifth International Trade Exhibition of Building Materials, Building Systems and Building Renovation; Fair Grounds, Munich, Germany, *January 22-29.*

INDEPENDENT CONSULTANCY SERVICES—Conference sponsored by the International Union of Independent Laboratories (UILI); Singapore, *January 28-29.*

MODELING AND SIMULATION—Call for Papers for 7th Annual Pittsburgh Conference to be held April 26-27, 1976; titles, abstracts, summaries, etc., should be submitted by *January 30.*

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ASBESTOS

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Project services include fibre evaluations, feasibility reports, market studies, pilot plant design and operation, process design, detailed engineering, procurement and construction management.

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REMEMBER WHEN?

(October 1925 ASBESTOS)

New Advertiser: Twin City Pipe Covering Company, St. Paul, Minnesota

The October 1925 issue contained a biographical sketch of Francis Oats, a pioneer in the South African asbestos mining industry. Starting his career as Mining Inspector for the British Government in the diamond mines which were Government property, Mr. Oats was made a Director of DeBeers Company when it was formed and eventually became Chairman of that Company, a post which he held until his death in 1918. In the late 1880's Mr. Oats and others formed a syndicate to explore deposits of Blue asbestos which had been found in the Prieska area near the Orange River. In 1893 the syndicate was organized into the Cape Asbestos Company Ltd., with Mr. L. Breitmeyer as Chairman and Mr. Oats in charge of the Company's interests in the Union of South Africa. Despite prolonged periods of trials and tribulations and due in large part to Mr. Oats' perseverance, the Company became firmly established and was almost solely responsible for the development of the Blue asbestos industry as we know it today.

(November 1925 ASBESTOS)

This issue reported the untimely death at age 64 of Thomas Franklin Manville, Co-Founder and Chairman of Johns-Manville, Inc., the world's largest manufacturer of asbestos products. Born in 1861, Mr. Manville entered the asbestos business in Milwaukee about 1887, joined Mr. H. W. Johns in founding the original company which bore their names, and actively headed the surviving company for the 25 years immediately preceding his death. Mr. Manville had, for many years, been recognized as the outstanding personage in the worldwide asbestos industry.

The first of three authoritative articles on the "Manufacture and Use of Asbestos Paper," by Ismar Ginsberg, was published in this issue.

It was reported that Mr. George D. Crabbs, President of Philip Carey Company, had been elected a Director of Procter & Gamble Company, one of the leading U. S. corporations.

Application was made for a charter for Asbestos Corporation Ltd. in October 1925. The new company was being established as the result of the long-discussed merger of a number of leading Canadian asbestos mining companies.

NEXT ISSUE — 1975 in Review

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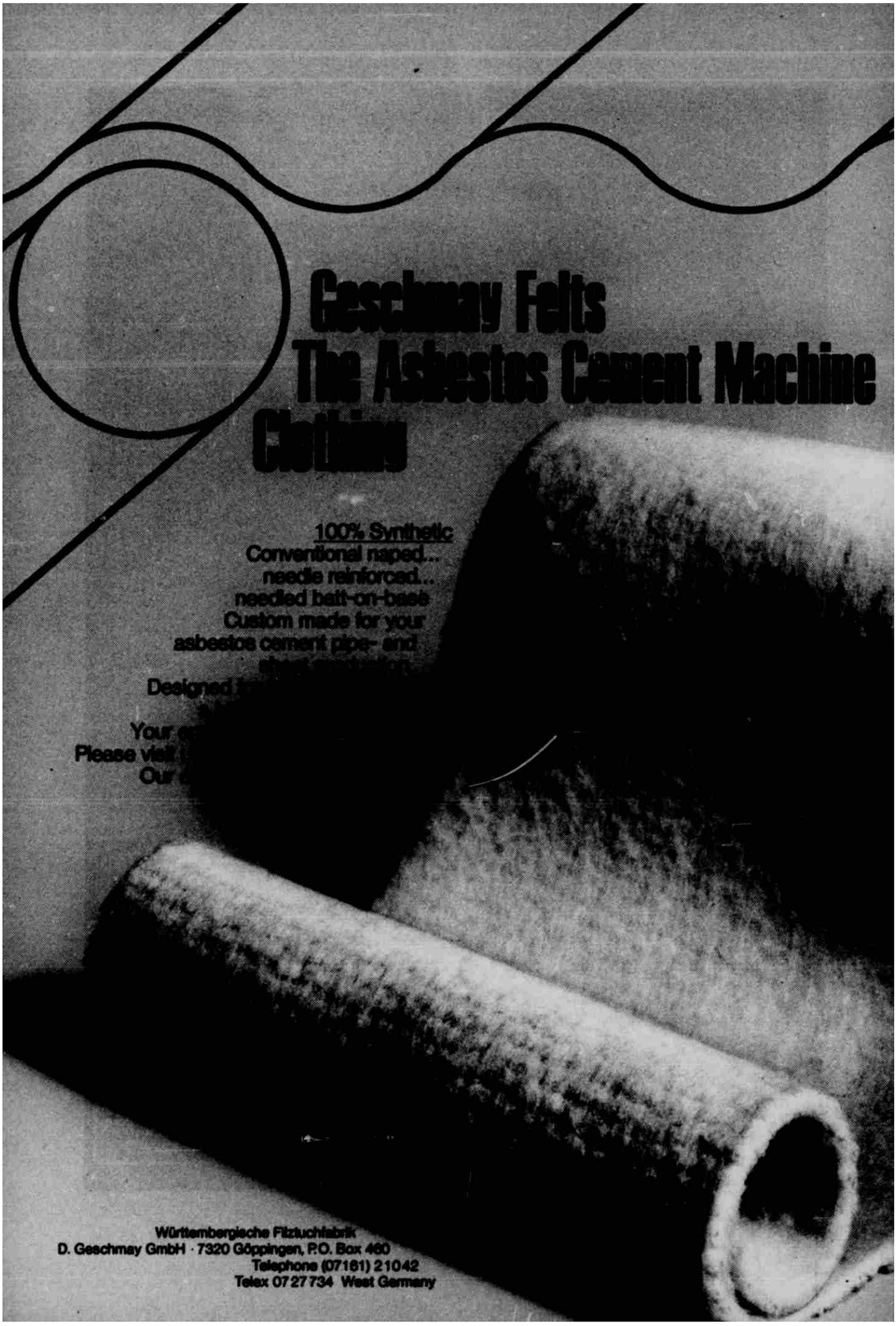
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