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- research and development on asbestos products such as asbestos cement, composites, textiles;
- environmental impact studies and industrial hygiene surveys of mines, mills and plants.

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ASBESTOS

VOLUME 58 NOVEMBER 1976 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.
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ENVIRONMENTAL ISSUES IN THE U.S.

ASBESTOS DISCRIMINATED AGAINST

The *U.S. Environmental Protection Agency* had issued a request for a proposal to identify firms qualified to undertake Economic Impact Studies of selected control options for particular toxic substances. EPA used asbestos as an example, referring specifically to asbestos-cement pipe and asbestos brake and clutch linings. Consequently, the *Asbestos Information Association/North America* has informed EPA that the use of certain asbestos products for illustrative purposes is considered unwarranted and discriminatory and has asked the Agency to advise recipients that the sample research request was developed for illustrative purposes only and does not necessarily reflect fact or the opinion of the Federal government with regard to the toxic effects of specific asbestos-containing products.

TOXIC ACT BECOMES LAW

The Toxic Substances Control Act, a measure which has been pending for five years, was finally approved by the *U.S. Congress* and signed by President Ford October 11, 1976. The Act will become effective January 1, 1977. A priority list of chemical substances and mixtures is to be developed within nine months, after which EPA is to determine if the manufacture, commercial distribution, processing, use and/or disposal of each chemical substance or mixture may present an unreasonable risk of injury to health or the environment. It is not possible at this time to determine the full impact, if any, of the Act on the Asbestos Industry.

WORKERS MUST OBEY

Refusal by an employee to comply with provisions of regulations of the *U.S. Occupational Safety and Health Administration* can cost him his job and his unemployment compensation. In a recent incident, an employee was given ear plugs to wear in a work environment where the noise level exceeded 90 dB. He refused to wear any kind of ear plugs and expressed willingness to take the risk of not doing so, after which he was discharged for willful disobedience of company rules. Upon application for unemployment compensation, the *North Carolina Court of Appeals* ruled no such compensation, saying the employee should have

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

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

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



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For more information, write to Nilfisk of America, Inc. 3244 Prospect St. N.W., Washington, D.C. 20007 or call (202) 338-9360.

NILFISK GA 73.
The decentralized dust collector.

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worn the protective devices since the ruling was in compliance with a Federal regulation and must be considered reasonable. An arrangement with an employee who says he is willing to personally assume risk will not relieve the employer of the responsibility of enforcing OSHA standards. [AIHA Journal]

OSHA NEEDS SEARCH WARRANT

The *U.S. District Court, District of New Mexico,* is the third district court to rule that a search warrant showing probable cause is required before OSHA can perform an inspection to which an employer objects. U.S. District Courts for the *Eastern District of Texas* and the *Northern District of Ohio* had previously so ruled. Employers contend that an inspection without showing probable cause violates the Fourth Amendment to the Constitution. OSHA has appealed the rulings. [AIA/NA]

NIOSH TO RESTUDY HOMESTAKE

The *National Institute of Occupational Safety and Health* is to conduct another study at the Homestake gold mine at Lead, South Dakota. An earlier NIOSH study had linked asbestos-like fibers found in the mine to respiratory cancer among miners. Homestake challenged the study stating that an inspection of pertinent medical records revealed a number of errors and defects so serious that the study has been invalidated. [Metals Week]

AOMA ADOPTS ETHICS CODE

The *American Occupational Medical Association* has adopted a code of ethical conduct, thus proclaiming its position on a question that has been stirring much controversy among occupational physicians and their critics. The 12-point code affirms AOMA's advocacy of unbiased medical judgment above all other considerations or loyalties. According to Robert Hilker, M.D., President of AOMA, "there is no question that some practitioners of occupational medicine have at times been misled by a confused sense of loyalty to an employer." AOMA has procedures "for evaluating, censuring, suspending or expelling any member whose actions are found to be in conflict with the organization's ethical posture." [OSHA Job Safety & Health]

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MEDICAL LITERATURE

PHOTOCOPIES OF THE FOLLOWING PAPERS ARE AVAILABLE FROM THIS MAGAZINE @ 20c PER PAGE.

Research Activities Related to Asbestos—Projects listed in the 3rd Annual Report, 1973, of the National Research Institute for Occupational Diseases (NRIOD), South African Medical Research Council, Johannesburg, Republic of South Africa (6 pages).

Occupational Cancer—By I. Webster, F.R.C. Path., Director of NRIOD; presented at the First South African Cancer Congress, 1972 (7 pages).

The Ingestion of Asbestos Fibers—By I. Webster; results of tests from feeding baboons with Crocidolite (4 pages).

Surface Characteristics of Macrophages Following Exposure to Dust—By K. Miller, E. Kagan & I. Webster of NRIOD; paper printed in Volume 5 of the Proceedings of the Electron Microscopy Society of Southern Africa (2 pages).

Asbestos, Smoking and Laryngeal Carcinoma—By Dr.'s P. T. Shettigara & R. W. Morgan, Department of Preventive Medicine, University of Toronto (Archives of Environmental Health; 3 pages).

The Adsorption of Water and Benzene on Amosite and Chrysotile Asbestos—By C. H. Gorski & L. E. Stettler, National Institute for Occupational Safety and Health, Cincinnati, Ohio (American Industrial Hygiene Association (AIHA) Journal; 7 pages).

Physical Parameters of Airborne Asbestos Fibers in Various Work Environments/Preliminary Findings—By G. W. Gibbs & C. Y. Hwang, Department of Epidemiology and Health, McGill University, Montreal, Quebec (AIHA Journal; 8 pages).

New Aspects on Dust and Pneumoconiosis Research—By Prof. Dr. med. W. Klosterkotter & Priv. Doz. Dr. K. Robock, Institute of Hygiene and Occupational Medicine; University of Essen, Federal Republic of Germany (AIHA Journal; 10 pages).

X-ray Diffraction Characteristics of Some Silicates—By M. U. Beg, Q. Rahman & P. N. Viswanathan, Industrial Toxicology Research Center, Locknow, India (AIHA Journal; 2 pages).

The Effects of Milling on Diameters and Lengths of Fibrous Glass and Chrysotile Asbestos Fibers—By J. Assuncao & M. Corn, Ph.D., Department of Occupational Health, University of Pittsburgh, Pennsylvania (AIHA Journal; 9 pages).

A Statistical Analysis of Asbestos Fiber Counting in the Laboratory and Industrial Environment—By G. S. Rajhans of the Ontario Ministry of Health and G. M. Bragg, Ph.D., of the University of Waterloo, Ontario (AIHA Journal; 7 pages)

The Porosity of Amosite and Chrysotile Asbestos—By C. H. Gorski, L. E. Stettler & B. L. Lempert, U.S. Department of Health, Education and Welfare, Cincinnati, Ohio (AIHA Journal; 6 pages).

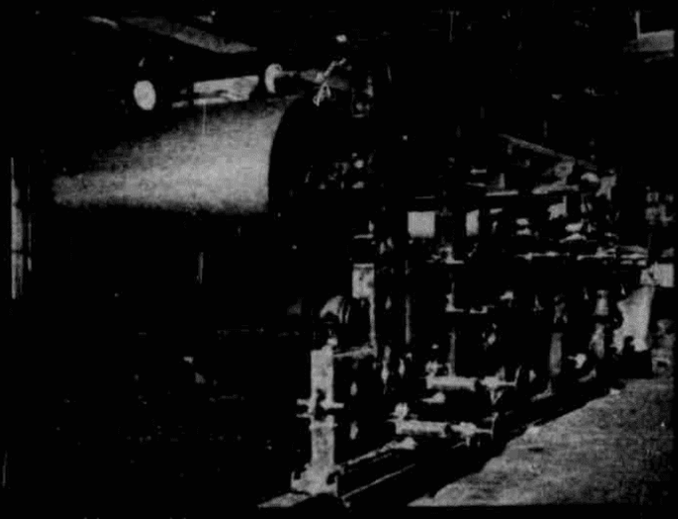
Characterization of Talc and Associated Minerals—By D. H. Hamer, F. R. Rolle & J. P. Schelz, Analytical Laboratories, Johnson & Johnson, New Brunswick, New Jersey (AIHA Journal; 9 pages).

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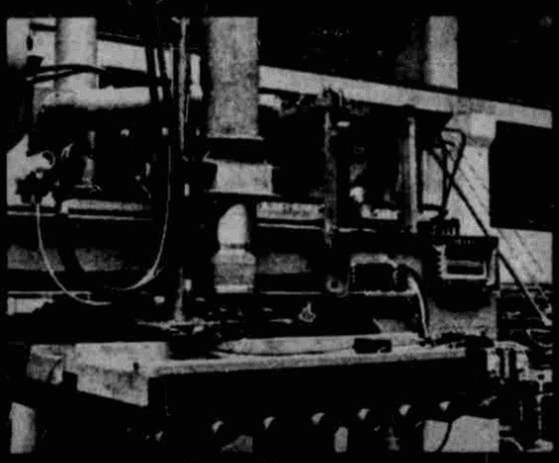
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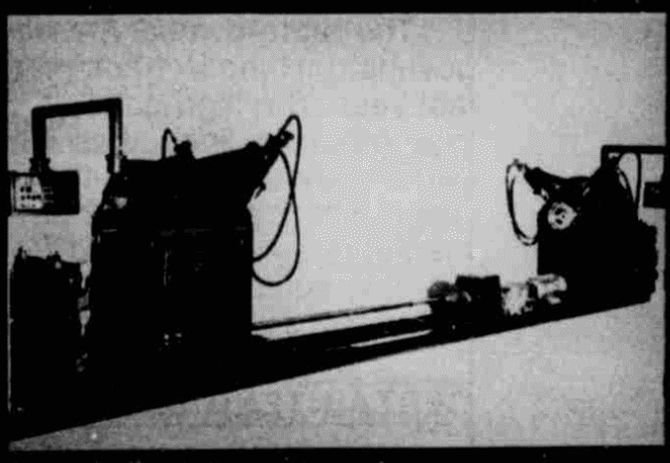
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COMPANIES & PRODUCTS

CAPE MATTERS

"Cape Review Spring 1976" is a beautifully-illustrated, comprehensive, full-color publication published by *Cape Industries Ltd.* to provide insight into the activities and achievements of Cape companies and their contribution to the markets which they serve. . . . To give separate identity to the Cape Group's industrial activities in the Republic of South Africa, *Cape Insulation Products (Pty) Ltd.* was formed as a new holding company. CIP is to acquire, from Cape Asbestos South Africa (Pty) Ltd., its shareholding in Cape Asbestos Insulations (Pty) Ltd., Caposite Applications (Pty) Ltd. and Don International (Pty) Ltd. As the parent of the three companies, CIP will control the production and marketing of the many Cape products made by the Cape Group in South Africa. CIP's registered office will be at Benoni South, located on the outskirts of Johannesburg. . . . Automotive friction material sales in Belgium, Luxemburg and The Netherlands of *Don International S.A.*, Manage, Belgium, are now being carried out by *Don Benelux* from its office in Brussels.

ETERNIT PLANT IN HUNGARY

The state-owned *Eternit Cement and Lime Works* at Nyergesujfalu, Hungary, completed its 5-year modernization program last year. The high-capacity, automated plant, which includes six new machine lines, has increased the production of asbestos-cement sheets to 22-million square meters annually, sufficient to meet domestic requirements. The modern sheet-making machines were imported from the USSR and the processing and molding equipment was supplied by factories in Czechoslovakia, Denmark, Hungary and Italy.

CERTAINTEED LOWERS PRICES

CertainTeed Corporation announced an 8% price cut for its asbestos-cement distribution water pipe in Texas, Oklahoma and New Mexico to align its published list prices with actual selling prices in those States. It is generally the published prices that are used by planners, engineers and contractors when preparing cost estimates. According to a spokesman for the company, "asbestos-cement pipe, more than ever, represents the most cost effective material for water distribution and is gaining broader acceptance as municipalities and water districts become increasingly value conscious."

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ASBESTOS

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

SALES REPRESENTATIVES

Arkansas, New Mexico, Oklahoma, Texas
Federated Metals Corporation
Houston, Texas

California: A.J. Lynch & Co.
Los Angeles, San Francisco

Illinois, Indiana, Wisconsin
Jensen-Souders Associates, Inc.
Chicago

Michigan: Matteson-Ridolfi, Inc., Detroit

New England, New York
Northern New Jersey
D.H. Litter Company, Inc.
New York, N.Y., Ballardvale, Mass.

N. Carolina, S. Carolina, Georgia
Tennessee, Alabama, Mississippi
Deeks & Co., Inc.
Stone Mountain, Ga., High Point, N.C.

Northern Ohio
The A.C. Mueller Co., Cleveland

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

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

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

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

Bolivia: Tennants S.A., La Paz

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

Colombia
Holanda Colombia, S.A., Bogota

Dominican Republic
A. Amanzio, Mexico City

Mexico
Industrial Minera Mexico, S.A.
Mexico City

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

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

Venezuela
Connell Brothers Co., Ltd., Caracas

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

LAKE ASBESTOS

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CAREY-CANADIAN APPOINTS

Carey-Canadian Mines Ltd. has appointed *The Daniel C. Hereley Company*, Chicago, Illinois, as a new distributor for Carey-Canadian asbestos fibers in northern Illinois, northwestern Indiana and Wisconsin. Hereley replaces Chicago Fire Brick Company which is concentrating its sales efforts on other products.

J-M SELLS TILTON PLANT

Quin-T Corporation purchased the assets of the electrical insulation business of *Johns-Manville Corporation* located at Tilton, New Hampshire. The products made at the facility are primarily specialty asbestos papers used as an insulating medium in a wide variety of electrical equipment. J-M will continue to make millboard and other types of asbestos paper at different locations. Quin-T is a newly-formed, privately-held Delaware corporation, headed by J. C. Kingsbury, President of Nash Bros. Co., Joliet, Illinois.

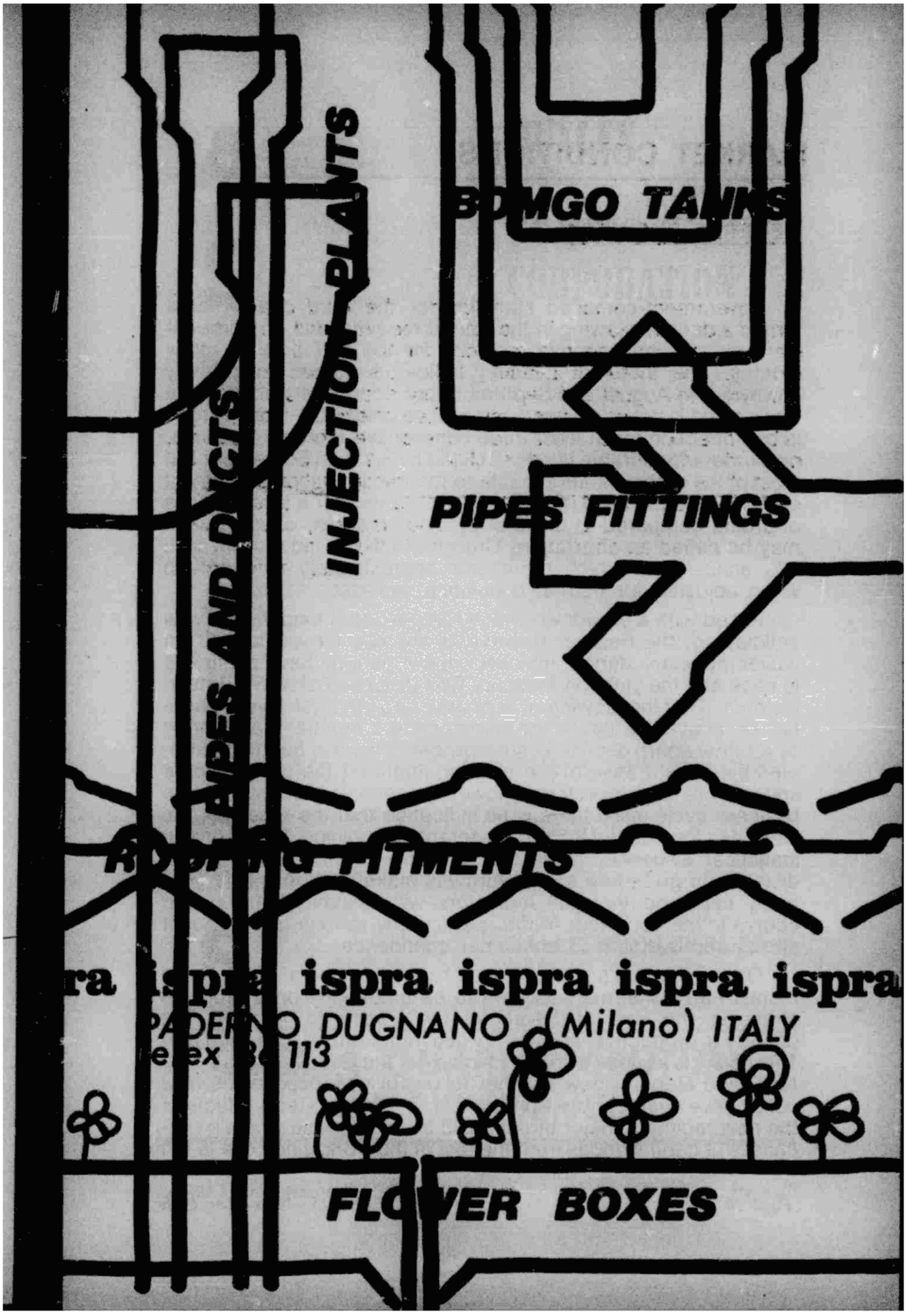
TURNER & NEWALL HAPPENINGS

Newalls Insulation Company will spend over £2-million to modernize and expand manufacturing facilities at Washington, England. Most of the investment will be spent at the Tyne-and-Wear Factory where high-duty thermal insulation products are made. . . . T&N's French subsidiary, *Ets Dagard et Fils, SA*, is to form a German subsidiary, *Dagard Fertigbau Tiefkuhlanlagen GmbH*, to market and service, in Germany, the Dagard line of cold store insulation panels and refrigerated cold rooms.

THIS & THAT

Klinger Corporation has taken an option on land near Sidney, Ohio, to construct a 22,000-square-foot, asbestos-cement sheet factory. The company is a producer of compressed a/c sheeting and jointing, headquartered in Switzerland. . . . Work has begun on the installation of machines at the *Asbestos Pipes Factory* in al-Ta'meem Governorate, Baghdad, Iraq. The overall cost of the project is estimated at ID2,850,000. . . . The *Durez Division of Hooker Chemical Corporation* has announced its intent to withdraw from the use of asbestos fillers in all its products during the next nine months.

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INJECTION PLANTS
PIPES AND DUCTS
PIPES FITTINGS
ispra ispra ispra ispra ispra
DUGNANO (Milano) ITALY
FLOWER BOXES

MARKET CONDITIONS

GENERAL BUSINESS

Government-compiled statistics for the third quarter confirmed a definite slowing in the rate of recovery and, in some instances, showed negative readings for the first time in many months. The Index of Leading Indicators turned moderately downward in August and September but economists pointed out that a trend is not considered established unless the Index moves in one direction for at least three consecutive months. Likewise, new orders for durable goods declined by 3.1% in September but most of the drop was attributable to the transportation equipment sector where the Ford Motor strike accounted for a sizeable loss of orders compared to those of previous months, causing what may be called an aberration. Growth of GNP is now down to a 4% annual rate which represents approximately zero growth when adjusted for normal population increase.

Faced with a slowdown which has persisted longer than was anticipated, the Federal Reserve Board has moved toward an easier monetary stance. Interest rates in general have continued to ease and the yield on Treasury Bills dropped below 5% late in October. That the slowing of economic growth after a year and a half of recovery is cause for some concern has been evidenced by a rather sharp decline in stock prices. This has been accentuated by a slight case of pre-election jitters on the part of some speculators and investors. However, serious students of the business cycle insist there is no indication that the recovery has started to top out and the preponderance of opinion, based on the statistical evidence, holds that the upswing has considerable distance to go before a downturn will make itself felt. It is generally expected that the indicators will resume their upward course in the very near future, particularly in view of the recent strong improvement in consumer confidence.

On the international front, Hua Kuo-feng, China's new Communist Party Chairman appears to be embarking on a program stressing the use of advanced technology to improve the country's productive abilities in both agriculture and industry. This policy is at odds with the ideology of the deceased Mao Tse-tung, and Mao's widow and her followers who oppose the new policy have been purged from the party. The long-term effects of the new regime's major thrust could be to increase China's purchases of capital goods from the rest of the world since she is not

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ASBESTOS

HUXLEY DEVELOPMENT CORPORATION

Anthophyllite
Chrysotile
Crocidolite
Amosite

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OVER A QUARTER CENTURY OF EXPERIENCE

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in position to fill any very large requirements from her own manufacturing plants.

The British pound fell to a new record low near the end of October. Heavy selling pressure was attributed to fears that the Labor government would fail in its efforts to cope with the country's many serious economic problems. We have the greatest sympathy for Britain, plagued as she is with double-digit inflation, high unemployment and the ills stemming from the government's attempts to deal with these problems by running large deficits and redistributing income and wealth through confiscatory taxation. In the light of this sad performance, we cannot help but wonder how so many of our elected representatives seem committed to steering our country down this same road to disaster.

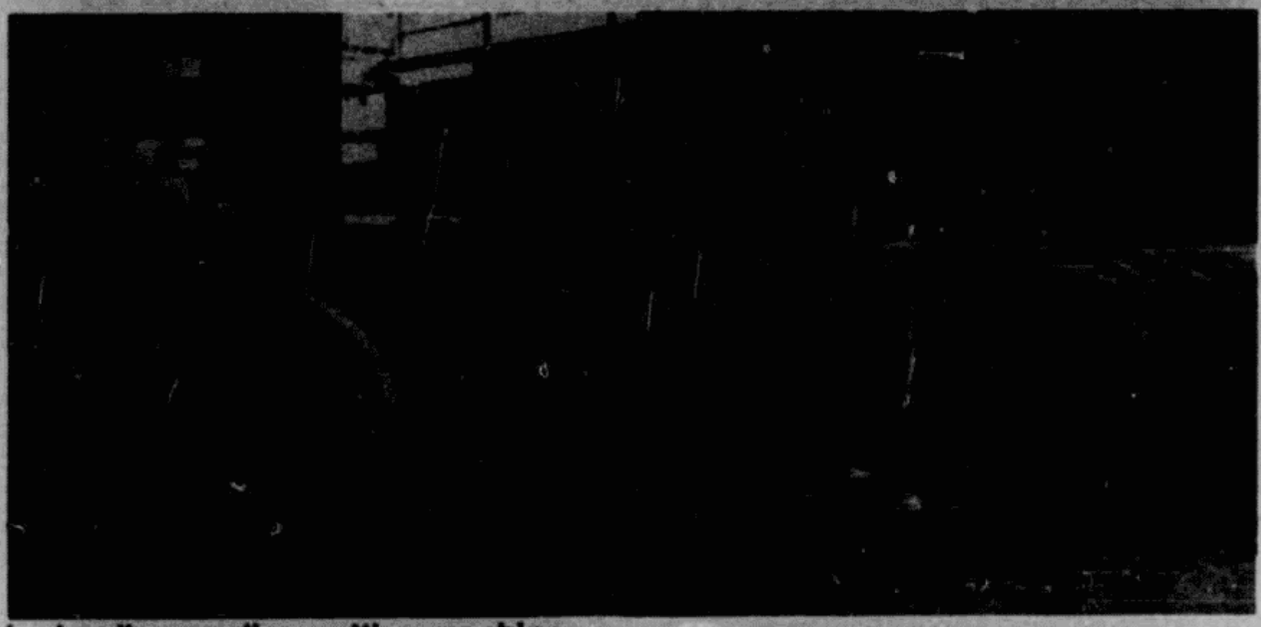
CONSTRUCTION CONTRACTS

SEPTEMBER 1976—Gains in housing and nonresidential building were largely offset by sharp declines in public works, utilities and other heavy construction, resulting in a total value of contracts for all new construction in September of $8.1-billion, a gain of 7% over the same month in 1975. The seasonally adjusted Dodge Index for September was 164 (1967 = 100), little changed from the 162 in August and substantially below the 186 average for the first half of the year. The special $3.7-billion appropriation bill for public works that was signed early in October should soon be having an impact on the construction industry's current soft spots — highways and sewers. Contracts for *nonresidential* building totaled $2.9-billion for a 17% gain over the same month of last year. The value of newly-started *residential* work in September reached $3.8-billion, up 27% from a year earlier. The weak flow of utility, highway and sewer projects left the total of new *nonbuilding* construction at only $1.5-billion in September, a decline of 32% from the year-ago amount.

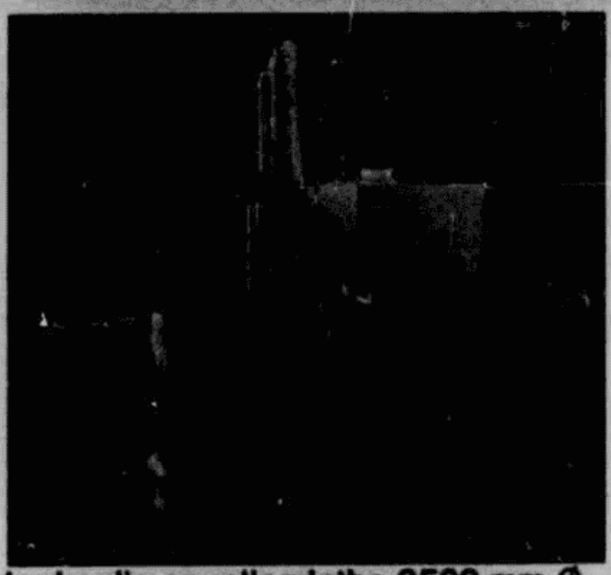
NINE MONTHS 1976—At the end of nine months, the total value of newly-started construction in 1976 was $77.4-billion, a gain of 6% over the same period of 1975. A breakdown, by category, shows $23-billion for nonresidential building, down 10%; $32.6-billion for residential building, up 39%; and $21.8-billion for nonbuilding construction, down 9%. [F.W. Dodge Division, McGraw-Hill Information Systems Company]

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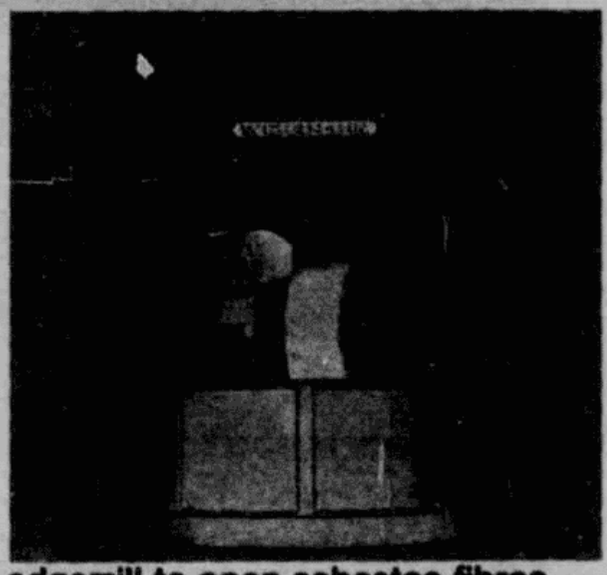
WEHRHAHN



hydraulic coupling cutting machine



hydraulic coupling lathe 2500 mm ∅



edgemill to open asbestos fibres

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Many fully-automatic WEHRHAHN- ac-plants produce sheets and pipes successfully all over the world. WEHRHAHN has experience for more than a man's age to construct economical ac-machines for the future. WEHRHAHN'S dynamic specialists assist you everywhere. It's their job! Why not contact them ? Ask for up-to-date quotations too ! Choose :

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		JULY 1976	
Amosite	s.tons	..	$ ..
Crocidolite (Blue), Australia	s.tons	99	46,498
Republic of South Africa	s.tons	905	444,706
Chrysotile Crudes, Canada	s.tons	96	50,224
Rhodesia	s.tons	365	41,029
Republic of South Africa	s.tons	278	139,806
United Kingdom	s.tons	176	90,255
Chrysotile Spinning Fibers, Canada	s.tons	674	631,610
Chrysotile, Other, Canada	s.tons	50,949	10,184,214
Mexico	s.tons	5	1,276
Other Crudes & Fibers, Canada	s.tons	2,024	312,794
USSR	s.tons	829	140,817
		56,400	$12,083,229
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	511,983	$ 760,669
A-C pipes, tubes & fittings	Lb	2,284,266	231,948
Other asbestos-cement articles	Lb	1,051,046	222,733
Other asbestos articles		..	590,365
			$ 1,805,715
		JANUARY-JULY 1976	
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	20	$ 469
Republic of South Africa	s.tons	1,151	503,663
Crocidolite (Blue), Australia	s.tons	99	46,498
Republic of South Africa	s.tons	5,617	2,760,172
Chrysotile Crudes, Canada	s.tons	385	175,399
Mexico	s.tons	234	125,486
Rhodesia	s.tons	1,460	1,156,259
Republic of South Africa	s.tons	629	333,724
United Kingdom	s.tons	295	146,247
Chrysotile Spinning Fibers, Canada	s.tons	3,068	2,685,178
Chrysotile, Other, Canada	s.tons	349,937	70,190,927
Germany, West	s.tons	1,086	202,826
Mexico	s.tons	22	5,195
Republic of South Africa	s.tons	396	217,440
Other Crudes & Fibers, Canada	s.tons	10,783	1,763,136
Germany, West	s.tons	823	179,840
Hong Kong	s.tons	2	345
Mexico	s.tons	52	21,624

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In the asbestos industry alone, more than 75 C-E Bauer Hurricane® Pulverizer-Classifier units are used to fiberize, to remove magnetite and rock, and to recover fibre from tailings that used to be discarded. They were specified by operators who need rugged, high capacity equipment for continuous, heavy duty service. (A 4½" diameter shaft that reduces maintenance is standard on new units.) Ask for Bulletin G-4. C-E Bauer, a division of the Process Equipment Group of Combustion Engineering, Inc., Springfield, Ohio 45501 and Brantford, Ontario.

PROCESS EQUIPMENT
COMBUSTION ENGINEERING, INC.

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U.S. IMPORTS—CONTINUED

Republic of South Africa	s.tons	1,953	898,889
USSR	s.tons	7,529	1,433,538
		385,541	$82,846,855

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	4,068,065	$ 5,769,721
A-C pipes, tubes & fittings	Lb	6,723,017	651,090
Other asbestos-cement articles	Lb	10,748,054	1,797,961
Other asbestos articles		..	3,469,864
			$11,688,636

AUSTRALIAN A/C SHEET PRODUCTION

Production in Australia of flat, corrugated, molded and grooved asbestos-cement sheets for the *Twelve Months To June 1976* totaled 41,532,000 square meters, 450,000 square meters less than in the prior year and 2,478,000 square meters less than the year ended June 1974. [Bureau of Statistics, Canberra]

CANADA FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use) amounted to 139,268 short tons in *August 1976*, 61,266 tons more than in August 1975. The cumulative total for the *First Eight Months of 1976* was 1,083,511 short tons: 885,089 tons from Quebec plants and 198,422 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January-August 1975 was 691,987 tons: 508,858 tons from plants in Quebec and 183,129 tons from plants in the other four Provinces. [Statistics Canada, Ottawa]

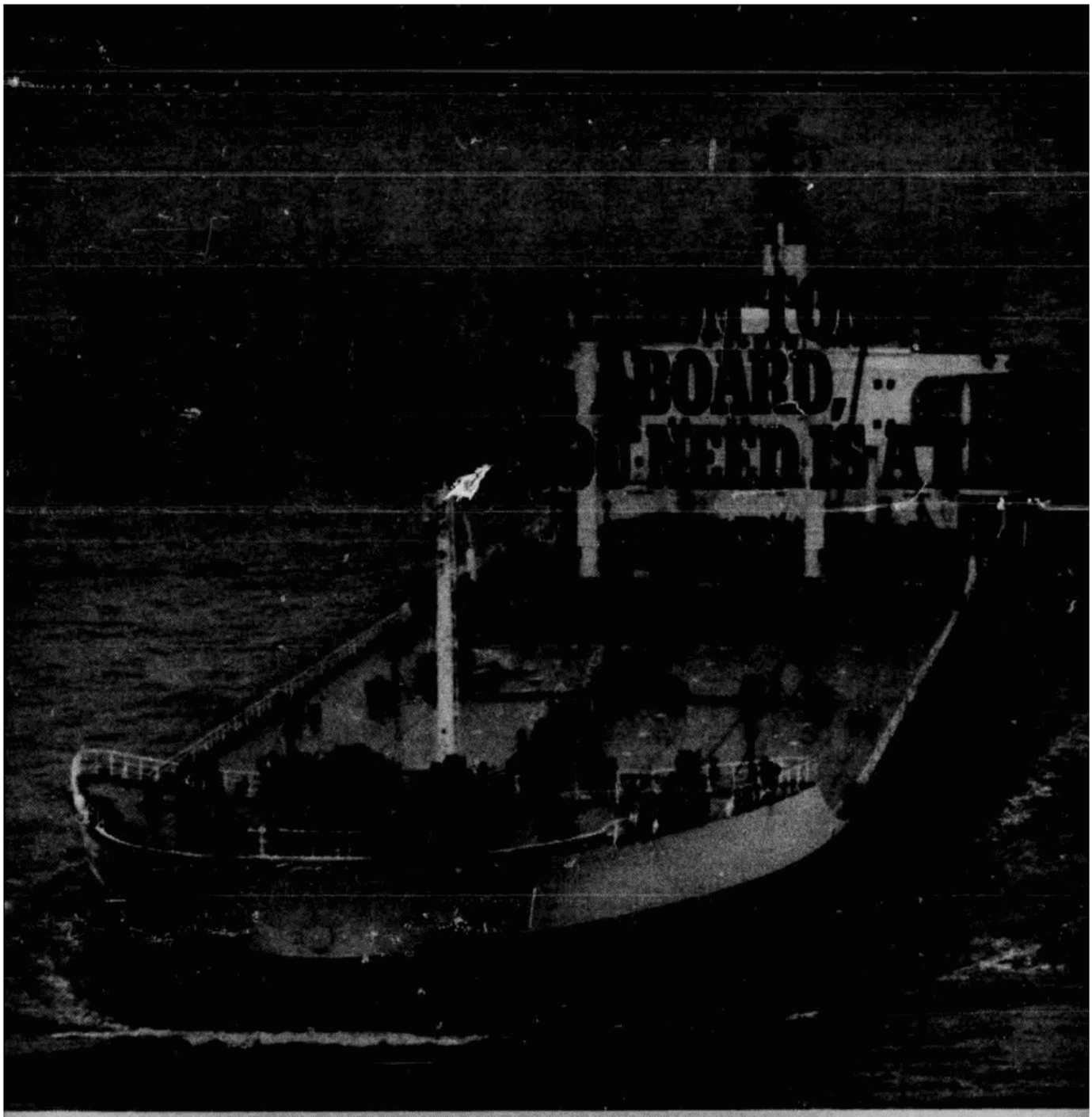
CANADIAN PRODUCT IMPORTS

Imports of various asbestos-containing products for the *First Half of 1976* were valued as follows: vinyl-asbestos floor and wall tiles—$54,000 (39,950 square yards); asbestos cloth, dryer felts and sheets—$1,480,000; asbestos packing—$737,000 (552,245 pounds); asbestos brake linings—$2,589,000; asbestos clutch facings—$335,000; asbestos-cement shingles and siding—$92,000; asbestos-cement boards and sheets—$207,000; other asbestos building materials—$3,145,000; and other asbestos basic products—$1,667,000. [Statistics Canada, Ottawa]

INDIA A/C PRODUCTION

The monthly average of asbestos-cement products manufactured in India for the *Year 1975* amounted to 41,000 metric tons, compared with 35,000 tons in 1974 and 1973, 32,000 tons in 1972 and 25,000 tons in 1969. [Journal of the National Buildings Organisation, New Delhi]

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The environmental consequences of a burning super-tanker would be disastrous. So would the loss of life.

An empty supertanker is even more dangerous. It can simply explode from a small spark in the wrong place.

No wonder painstaking precautions are taken to protect the ships that carry the oil that runs our economy.

Asbestos material is used to isolate fire-causing people and electrical systems from the cargo because asbestos cannot catch fire and holds up even after steel has melted down.

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

ASBESTOS

When life depends on it, you use asbestos.

Asbestos Corporation Limited. **Represented by:**

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

		JULY 1976	
UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	1,333	$ 398,948
Waste and refuse	s.tons	1,812	512,966
		3,145	$ 911,914
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	1,741,324	$ 276,699
Other a-c fiber-cement articles	Lb	2,231,838	570,120
Gaskets	Lb	34,583	140,816
Packing	Lb	200,737	446,727
Heat or sound insulation		..	310,831
Textiles & yarns	Lb	1,802,164	678,852
Protective clothing		..	34,100
Mfrs. other than friction materials		..	933,168
Clutch facings & linings for auto. use	No	23,967	51,962
Other clutch facings & linings	No	52,718	50,340
Brake linings for automotive use	Lb	729,721	575,589
Other brake linings	Lb	140,053	254,072
			$ 4,323,276

		JANUARY-JULY 1976	
UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	13,814	$ 4,359,482
Waste and refuse	s.tons	16,887	3,733,072
		30,701	$ 8,092,554
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	17,003,690	$ 2,848,374
Other a-c fiber-cement articles	Lb	15,062,361	3,058,614
Gaskets	Lb	393,530	958,257
Packing	Lb	2,412,121	4,884,362
Heat or sound insulation		..	2,584,286
Textiles & yarns	Lb	9,725,400	4,225,473
Protective clothing		..	492,399
Mfrs. other than friction materials		..	7,423,348
Clutch facings & linings for auto. use	No	388,485	689,826
Other clutch facings & linings	No	153,681	139,828
Brake linings for automotive use	Lb	5,911,551	4,927,071
Other brake linings	Lb	1,426,278	1,587,043
			$33,818,881

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60 YEARS OF EXPERIENCE

in the field of machinery for asbestos-cement products



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

Plants for the manufacture of corrugated and flat sheets.

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

Plants for the manufacture of fitments and cisterns by the injection method, and for the injection of couplings on green pipes.

Plants for the manufacture of square, rectangular and circular pipes.

Plants for sheet painting.

RIVA CALZONI S.p.A.
Stabilimento Calzoni
Via Emilia Ponente, 72
Telex 51 156 Calzoni
Tel. 384.631
40133 - Bologna - Italy

EXPORTS FROM CANADA

From: Statistics Canada

JULY 1976
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	54	1,272	17,833	10,549
Eastern Europe	..	78	395	215
Middle East	..	..	1,717	1,300
Africa	..	..	1,710	385
Asia	..	387	7,147	14,983
Oceania	..	..	1,296	427
So. & Cen. America & Antilles	..	40	5,423	2,312
United States	..	1,320	8,621	35,499
	54	3,097	44,142	65,670

The total amount of unmanufactured asbestos exported in *July 1976* was 112,963 short tons, valued at $32,880,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 66,000
Asbestos brake linings & facings	108,000
Asbestos-Cement building materials	627,000
Other basic asbestos products	127,000
	$ 928,000

JANUARY-JULY 1976

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	64	6,950	158,914	99,392
Eastern Europe	..	572	8,204	1,579
Middle East	..	215	9,485	4,546
Africa	..	..	5,941	3,664
Asia	..	1,115	55,698	83,397
Oceania	..	5	26,386	4,209
So. & Cen. America & Antilles	..	1,149	47,158	19,064
United States	20	4,887	84,562	272,328
	84	14,893	396,348	488,179

The total amount of unmanufactured asbestos exported in *January-July 1976* was 899,504 short tons, valued at $257,651,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$1,348,000
Asbestos brake linings & facings	951,000
Asbestos-Cement building materials	4,916,000
Other basic asbestos products	1,487,000
	$8,702,000

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ASBESTOS

Kilborn has provided consulting services on over twenty asbestos project assignments throughout the world.

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

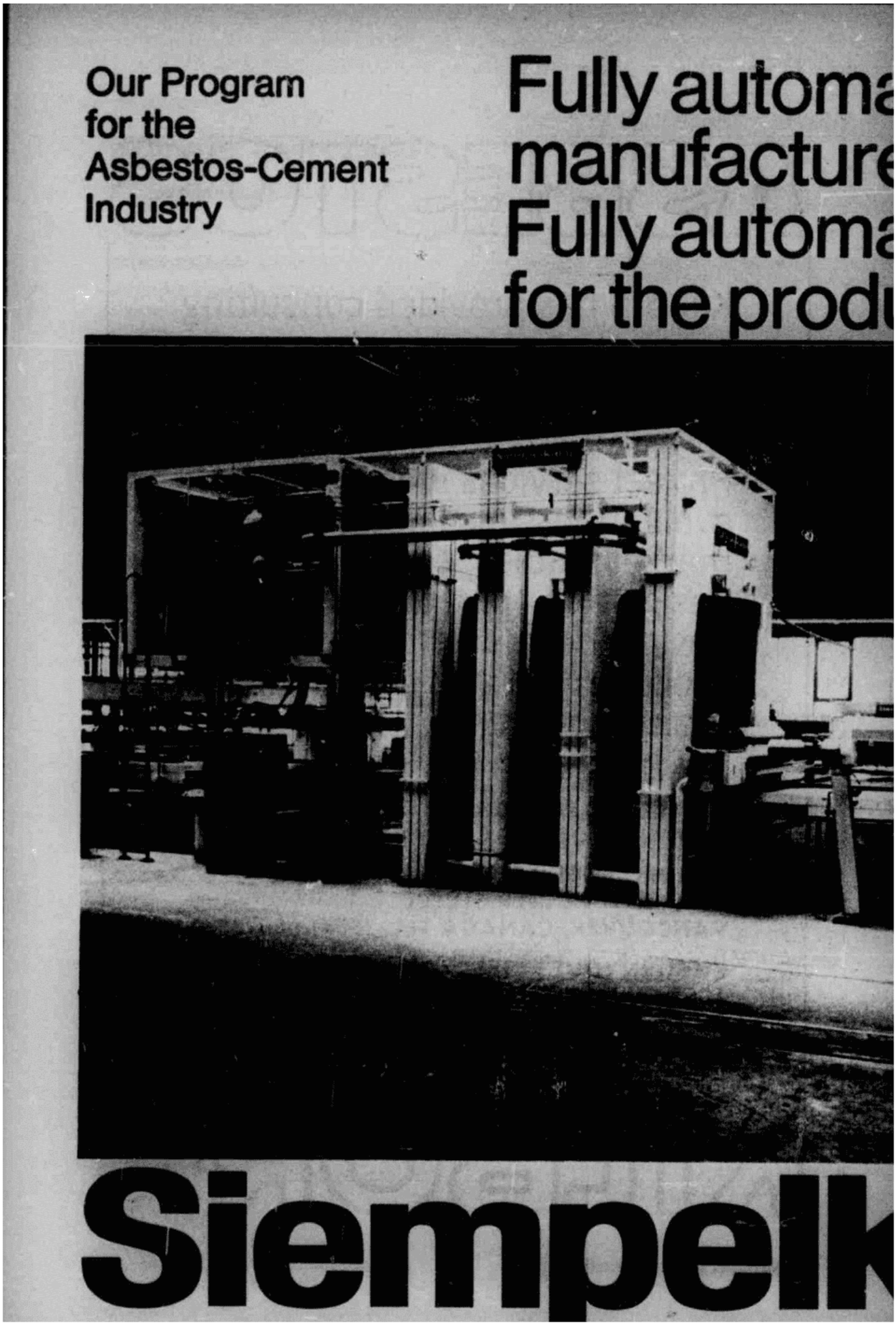
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TORONTO, CANADA TEL: (416) 252-5311

KILBORN ENGINEERING (B.C.) LTD.
1199 WEST PENDER STREET
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KILBORN

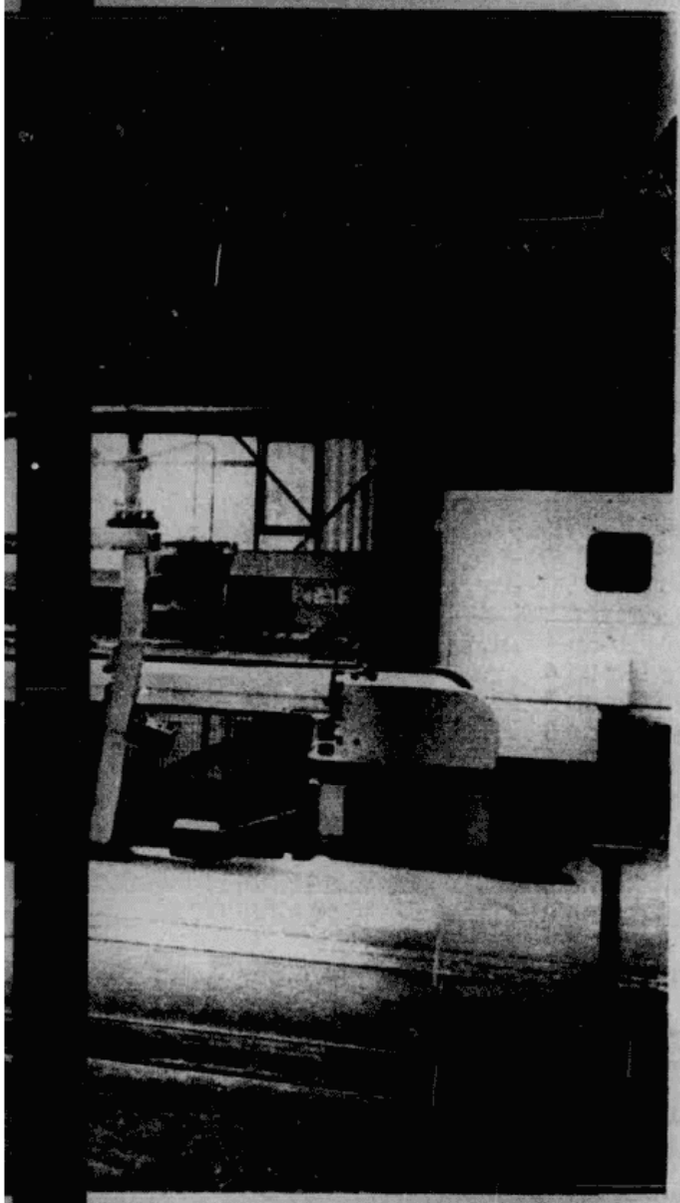
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ic production plants for the of:

ic press lines ction of:



flat and corrugated asbestos-cement sheets

asbestos-cement pipes

highly compressed asbestos-cement sheets

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

Fully automatic press lines for the production of building elements

hydraulic presses for asbestos-cement-sheets

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

hydraulic pipe testing presses

hydraulic pipe bursting presses

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

amp

G. Siempelkamp & Co.
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D-415 Krefeld / Germany
Phone 02151/898-1 · Telex 0853811

CURRENT ASBESTOS PRICES

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

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

QUEBEC *Per Ton of 2000 Lbs., F.O.B. Mine*
As of December 1, 1975 *Canadian Dollars*

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

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

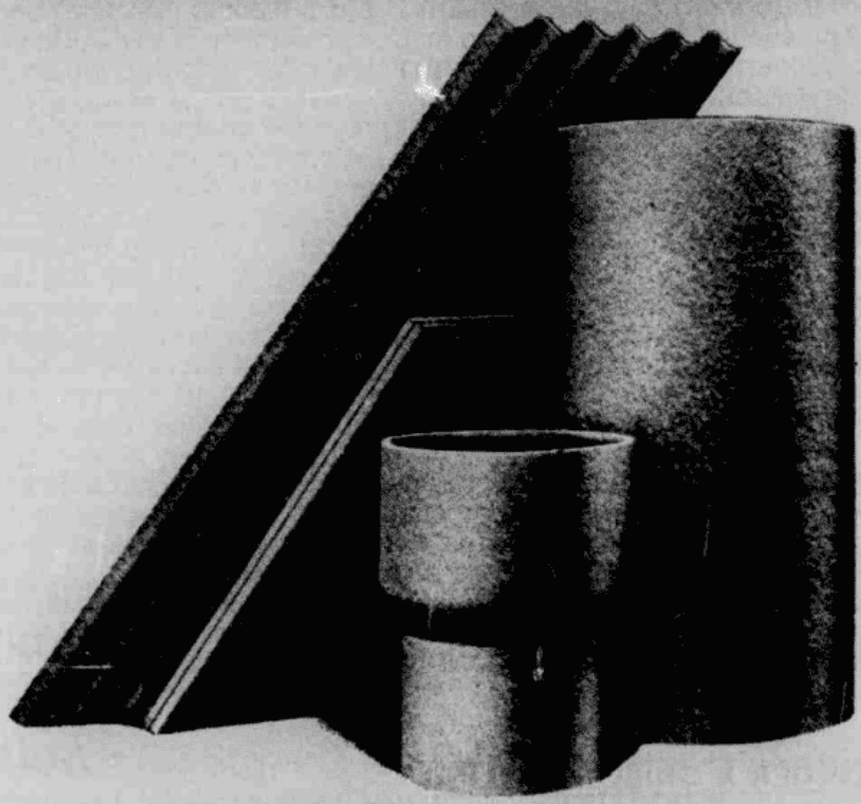
	Cassiar Mine	
C-1	—No. 1 Crude	$3621.00
AAA	—Nonferrous Spinning Fiber/Canadian Group 3	2093.00
AA	—Nonferrous Spinning Fiber/Canadian Group 3	1664.00
A	—Nonferrous Spinning Fiber/Canadian Group 3	1267.00
AC	—Nonferrous Spinning Fiber/Canadian Group 3	913.00
AK	—Asbestos Cement Fiber/Canadian Group 4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

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of January 1, 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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Lean on us!



Let us worry about Felts. That's our job.
In fact, AC Felts are our only business,
and we're devoted to it.
We know about pipe and sheet production;
we know about felts and felt problems;
we know we can help you.

Scapa Textiles Ltd.

Bamford, Lancashire, England
Telex: 63239

The Sheet and Pipe Felt Manufacturing Division of Scapa Group Ltd.

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THE MINING SCENE

DAFFODIL PROPERTY STUDIED

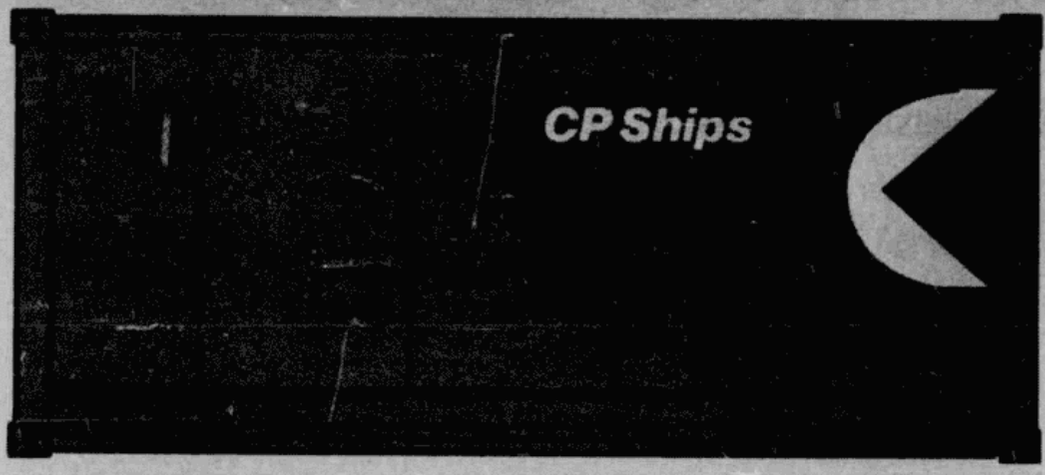
Great Northern Pulp & Paper Group Ltd., Toronto, Ontario, undertook a detailed study to assess the economic viability of the Daffodil asbestos property, formerly known as the Nakhodas property, which consists of a block of 34 contiguous mining claims, 27 of which are patented, covering approximately 1,200 acres in the central part of Deloro Township, District of Cochrane, Ontario, about six miles from Timmins. . . . In a preliminary economic assessment, it was determined there is a potential of 50-100 million tons of asbestos-bearing rock amenable to open-pit mining to a vertical depth of 800 feet. The grades of asbestos evident are 1.7% Group 4, 2% Groups 5 and 6 and 3% Group 7, totaling 6.7% total fiber content per ton of ore. This fiber content is expected to give a rock value of $17.56 per ton of ore and it is suggested that direct operating costs, including freight, will be about $7.40 per ton milled, leaving an estimated operating profit of $10.16 per ton mined. . . . Great Northern is seeking a major partner to provide funds to complete exploration and development of the property. The initial program could cost about $200,000 and preproduction costs are estimated at $5-million. . . . Asbestos was first produced from the claim group in 1923 by Bowman Asbestos Mines Ltd. and small and intermittent shipments were made until around 1956. The property was optioned to Asbestos Corporation Ltd. in 1950 when magnetometer surveys and diamond drilling were carried out. An additional 36 holes were drilled by Nicolet Asbestos Mines Ltd. when it had the property under option in 1958 and 1959.

HOLLINGER & SHIELD DRILLING

Hollinger Mines Ltd. is to undertake diamond drilling on an asbestos showing it discovered on the Newton Township property of its Rundle Gold Mines, located in the Horwood Lake-Rush Lake area, 65 miles southwest of Timmins. Initial plans are to put down three or four holes in the immediate area of a pit that has been blasted almost on the boundary of Talisman ground. Results of rock sample tests show the fiber to have "good, acceptable physical qualities" although insufficient work has been done to establish any grade or widths. . . . In its joint venture with *Talisman Mines Ltd.*, *The Shield Development Co. Ltd.* has drilled eight holes to probe, to a length of just over 2,000 feet, the asbestos-bearing structure also situated in Newton Township. Earlier the company had announced surface showings of asbestos fiber along a strike length of 5,400 feet. A magnetometer survey has traced the favorable formation for about 7,500 feet and it is still open to the west. Long fibers, ½" or better, have been picked up in four separate trenches in the first 2,700 feet extending west from the Hollinger-Rundle boundary. An additional 25 claims have been staked covering the extension of the belt into

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Here's how to get your asbestos to Europe the dependable container way



CP Ships provides an ample supply of these smooth wall 8'6" high cube containers for asbestos traffic.

Use CP Ships – the dependable container way – and benefit from all these advantages:

- **Performance** – CP Ships is a leader in the ocean movement of Canadian asbestos from North America to Europe.
- **Location** – CP Ships Quebec City terminal is ideally-located, open all year, with terminal hours specially adjusted to the needs of the asbestos industry.
- **Service** – CP Ships provides year-round weekly service between North America, Europe and the U.K. via Rotterdam/ London (Tilbury)/Le Havre.
- **Experience** – CP Ships experience is world-wide as part of Canadian Pacific, the world's largest privately-owned transportation system.
- **Door-to-door** – CP Ships delivers continuous-process container transportation, with door-to-door handling; one price, one document service.

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Heenan Township. Interesting enough, the drilling machine used by Shield is to be lent to Hollinger for use in its program while Shield assesses its own results. [The Northern Miner]

WOODSREEF ACQUIRES & DRILLS

Woodsreef Mines Ltd. acquired all of the issued shares of *Asbestos Mines Pty. Ltd.*, formerly a wholly-owned subsidiary of James Hardie Asbestos Ltd. The newly-acquired company operates a small asbestos mine and mill at Baryulgil, New South Wales, and holds a number of mining leases in the Baryulgil region. Woodsreef acquired the company in order to consolidate all leases in the area, thereby permitting an orderly exploration program. Woodsreef intends to keep the mine and mill operating at least until mid-1977. Continued operation after that date will be dependent on the mine and mill being economically viable. The current production level at the mine is approximately 400 metric tons of asbestos fiber per year. . . . Woodsreef Mines' wholly-owned subsidiary, *Yulgilbar Exploration Ltd.*, commenced a new diamond drilling program at Baryulgil in early September. The first hole in the current program has been completed to a depth of 301 meters and has intersected 105 meters of fiber development. Visual fiber logging indicates that about 70 meters could be economic. Assays will be carried out by core milling. Two diamond drill rigs are operating on the property and exploration will be conducted over both the Woodsreef leases and those held in the name of Asbestos Mines Pty. Ltd.

DRILLING AT CHIBOUGAMAU

The initial exploration hole put down by *McAdam Mining Corporation Ltd.* on its joint venture project with *Campbell Chibougamau Mines Ltd.* has encountered a wide section of asbestos mineralization. This 96-claim group is located at McKenzie Bay, Roy Township, on Lake Chibougamau, Quebec, five miles to the west of McAdam's Roberge Lake deposit which is now under active development by Rio Algom. The hole intersected an asbestos-bearing zone of serpentized dunite and peridotite from 69-460 feet. This core shows good cross fiber seams of asbestos from $\frac{1}{2}$" to $\frac{1}{16}$". Substantial new financing and a major winter drilling program is under consideration. [The Northern Miner]

NORMANDIE TO CLOSE

Due to depleted resources, *Asbestos Corporation Ltd.* will discontinue mining operations in September 1977 at the Normandie Mine, Thetford Mines, Quebec. A processing plant will remain in operation on the site to handle raw material from the King-Beaver open-pit mine which is to be reopened.

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Amosite from Cape

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

Cape's Research Makes it Work

CAPE

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

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

ANNUAL REPORTS—1976

HUMES LTD.

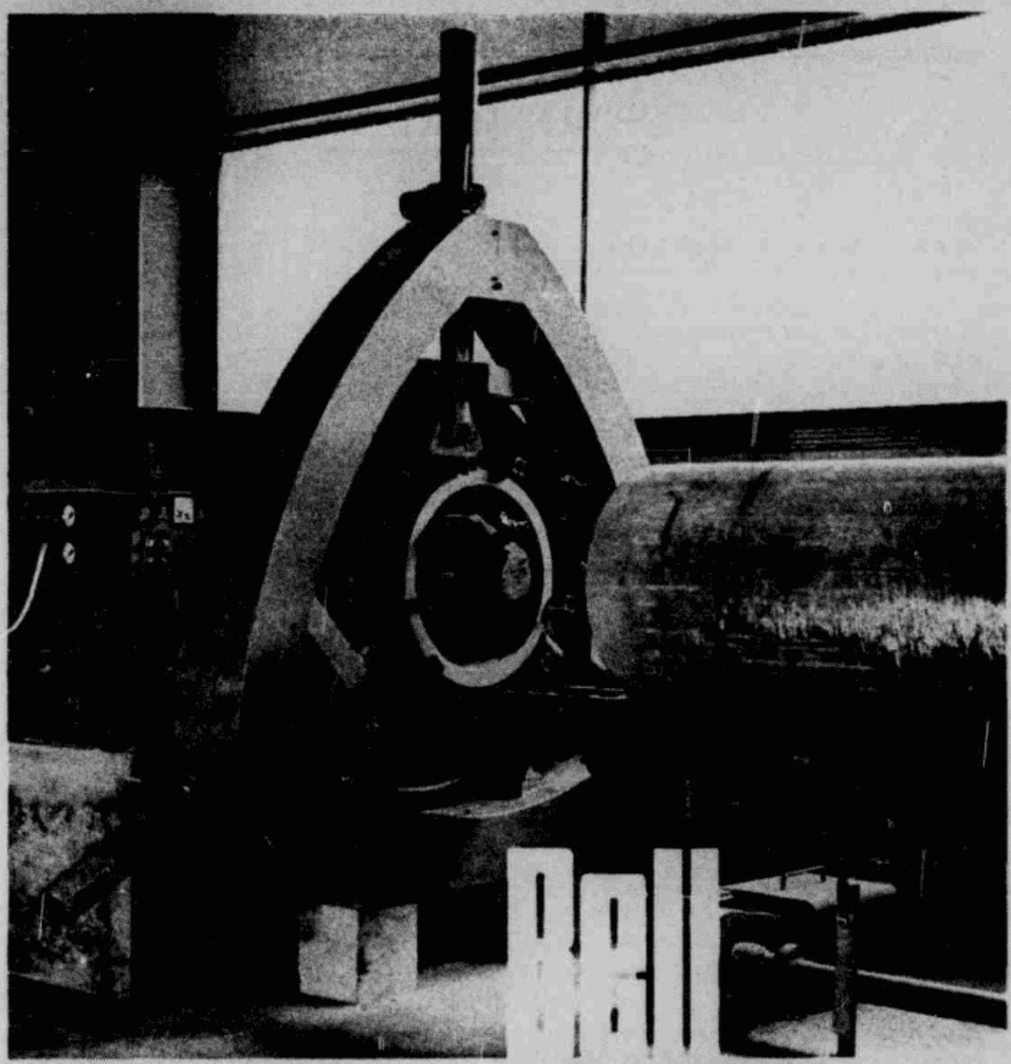
Group profit after tax (but before extraordinary items) applicable to the shareholders of Humes Ltd. was $7.9-million for the year ended June 30, 1976. The relevant figure for the prior year was $6.3-million. Turnover in physical terms fell in most sections of the Group so that sales increased only marginally to $176.8-million compared with $175-million a year earlier. . . . Concrete and Steel are the two major divisions of the Humes Group and the main activity of both divisions is the manufacture of pipe. Humes Ltd., the parent company, produces concrete and plastic pipe in Australia plus a wide range of concrete, steel and plastic products. Steel pipes and fabricated steel products are made in Australia by Steel Mains Pty. Ltd., a two-thirds-owned subsidiary. The Group's foreign operations are located in Singapore, Malaysia, New Zealand, the United Kingdom and Fiji. In Singapore and Malaysia the product line has been extended and now includes asbestos-cement, plastic, rubber and fiberboard materials.

ASBESTOS STOCK QUOTATIONS

Close—October 19, 1976

Abitibi Asbestos	C$.83	G&W (warrants)	3 1/8
Advocate Mines	C$3.00	G&W (pfd 2.50)	36 1/4
Armstrong Cork	28	G&W (pfd 3.87)	76
Armst. Cork (pfd 3.75)	51	IC Industries	19
Asarco	15 1/8	IC Ind. (pfd 6)	85
Asbestos Corporation	C$29.00	IC Ind (pfd 3.50)	40 1/2
Bendix	40 1/2	Jim Walter Corporation	36
Bendix (pfd 3)	81	Jim Walter (pfd 1.60)	39 3/8
Carlisle	13 3/4	Johns-Manville	30 1/8
Cassiar Asbestos	C$5.50	Kennecott Copper	29 3/8
CertainTeed	18 1/4	Maremont	17 5/8
Charter Conso.	pence 112	McAdam Mining	C$.44
Colt Industries	47 7/8	National Gypsum	15 1/2
Colt Ind. (pfd 1.60)	25	Pathfinder	C$.30
Colt Ind. (pfd 4.25)	63 1/2	Porter, H. K. (pfd 5.50)	68 5/8
Conwest	C$3.05	Raybestos-Manhattan	27 3/4
Flintkote	19 7/8	Rio Algom	C$29.50
F-kote (pfd-A 4.50)	59	Royal Industries	7 1/4
F-kote (pfd-B 2.25)	28 1/2	Supradur	Bid 4 5/8; Asked 5 1/8
GAF Corporation	13 3/8	Union Carbide	58 3/4
GAF (pfd 1.20)	19 5/8	United Asbestos Inc.	3 11/16
Gulf & Western	15 3/4	Woodsreef Minerals	C$.91

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

Bell Engineering Works Ltd.
CH—6010 Kriens / Lucerne
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Switzerland

Manufacturer of Asbestos Cement Machines and Asbestos Board Machines

---

Slurry preparation equipment

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

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

Auxiliary Equipment
Waterring vacuum pumps

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

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IN MEMORIAM

WALTER C. ATKINSON

Walter C. Atkinson, who had retired from Johns-Manville Corporation in 1968, passed away September 25, 1976, at his home in Clearwater, Florida.

Mr. Atkinson graduated in 1925 from the Textile School of the Rhode Island School of Design. He joined Johns-Manville in 1934 as Overseer for spinning and twisting operations. In 1957 he was named Superintendent of the asbestos textile mill at Manville, New Jersey.

He was active in the affairs of the Asbestos Textile Institute, having served for many years as Chairman and a Member of the Air Hygiene and Manufacturing Committee.

JESSE T. GRIFFIS
1906 — 1976

Jesse Thomas Griffis, age 70, died October 22, 1976, in Charlotte, North Carolina. He had suffered from a heart condition for some time.

Mr. Griffis began his career with Southern Asbestos Company in 1922 and served in numerous capacities including Supervisor of the Order Department, handling most of the sales correspondence at the Charlotte Works. In 1964 he was named Manager of the Charlotte and Davidson Works and became Manager-Marketing Development-Textiles in 1965. He was a Sales Representative upon his retirement on May 31, 1969, after 47 years of service with the company.

Mr. Griffis was an active participant in Asbestos Textile Institute activities, having served as Vice President in 1957 and 1958 and President in 1959 and 1960.

—ASBESTOS WELCOMES THE FOLLOWING NEW ADVERTISER—

CP SHIPS *(see page 33)*

NEXT ISSUE: 1976 IN REVIEW

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MEN ON THE MOVE

CEMENT ASBESTOS PRODUCTS COMPANY

Hershel L. Howard was named Mechanical Superintendent for the plant at Ragland, Alabama, it was announced by *James R. Carpenter*, Plant Manager. Mr. Howard had been Superintendent of Maintenance for the Mead Pipe Company, Anniston, Alabama. CAPCO is a subsidiary of Asarco Inc., and a producer of asbestos-cement pipe.

CERTAINTEED CORPORATION

John G. Kelso, as the new Corporate Vice President-Operations, will assist President *George J. Haufler* in the coordination of corporate projects. He will be involved in such areas as facilities planning, capital budgeting, traffic/distribution, materials and energy management and general operations activities. Mr. Kelso had previously been with the Norton Company.

Myron P. Simmons was also named a Corporate Vice President. He remains Secretary and General Counsel to the corporation. Mr. Simmons joined CertainTeed in 1973.

Marcel Levecque, a member of the Board of Directors since 1972, was elected Senior Vice President of CertainTeed. His broad responsibilities include directing the company's research and development activities and close liaison with Operating Groups for the development of new and improved products and manufacturing processes. Prior to assuming this new assignment, Mr. Levecque was Technical Director-Insulation & Textile for Saint-Gobain Industries, a wholly-owned subsidiary of Saint-Gobain-Pont-a-Mousson.

JOHNS-MANVILLE CORPORATION

Dr. Fred L. Pundsack was appointed to the re-established position of Executive Vice President-Operations and elected as a member of the Board of Directors, it was announced by *John A. McKinney*, President. Dr. Pundsack joined Johns-Manville in 1952 as a Senior Research Chemist. In his new capacity, he is responsible, through operating Senior Vice Presidents, for administration of all of the company's production and sales.

Michael A. Tappin, who joined J-M in 1971, is now Vice President-Labor Relations, responsible for labor agreements between J-M and employees represented by labor unions. The promotion was announced by *F. H. May, Jr.*, Executive Vice President-Finance and Administration.

James J. Tracy, Jr., was appointed Vice President and Treasurer, it was announced by *George W. O'Dair*, Senior Vice President for Finance. Previously Mr. Tracy had been Treasurer for Republic Steel Corporation.

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G. Earl Parker, Vice President-Corporate Counsel for J-M, was named to serve also as Secretary for the corporation. Mr. Parker joined J-M in 1968 as an attorney and is admitted to practice law in Mississippi, New York and Colorado.

C. J. Sulewski, Senior Vice President, Industrial and Pipe Products Group, announced the appointment of *S. Jack McDuff* as General Manager for the Industrial Products Division/Marketing, responsible for the merchandising and marketing of all J-M industrial products including automotive products and various types of industrial insulations. Mr. McDuff joined J-M in 1952 and most recently had served as General Manager of the J-M Pipe Division.

H. K. PORTER COMPANY, INC.

N. F. McVey was recently named General Works Manager for the plant of H. K. Porter Company (Great Britain) Ltd. located at New Castle, England. The company is a major manufacturer of synthetic and rubber products including hose, moldings, sheeting and gaskets. It also produces brake linings, clutch facings and other friction products for automotive and industrial use.

RAYBESTOS-MANHATTAN, INC.

The appointment of *Dr. Hilton C. Lewinsohn* as R/M's Corporate Medical Director was announced by *John H. Marsh*, Director of Environmental Affairs. Dr. Lewinsohn will supervise medical surveillance programs at all R/M facilities and will provide professional guidance and assistance in the conduct of the firm's industrial hygiene programs. Dr. Lewinsohn had been Chief Medical Officer for TBA Industrial Products Ltd. and Medical Advisor for the worldwide operations of Turner & Newall Ltd.

Robert B. Sims was appointed General Attorney and Assistant Secretary, replacing *W. A. Guenther*, former Corporate Secretary and General Counsel, who resigned to join W. R. Grace & Co. in Lausanne, Switzerland. Mr. Sims had been Assistant Counsel for General Signal Corporation. The appointment was announced by *David F. Calliari*, Senior Vice President-Finance and Administration.

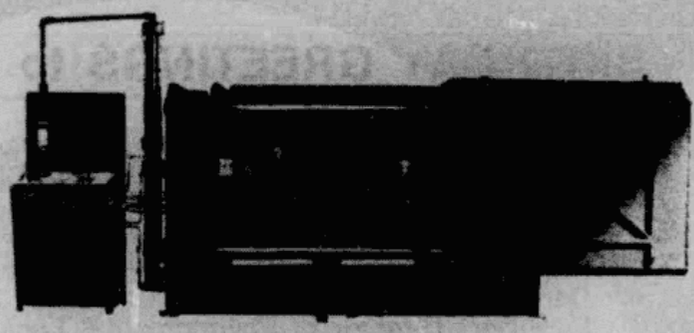
Ronald R. Moalli, President of R/M International, announced the appointment of *Julian P. Chilcote* as Sales Manager for U.S. Export Sales. He had been Industrial Sales Manager for R/M International and replaces *Richard D. LaBash* who has been assigned to another R/M company.

SCAPA GROUP LTD.

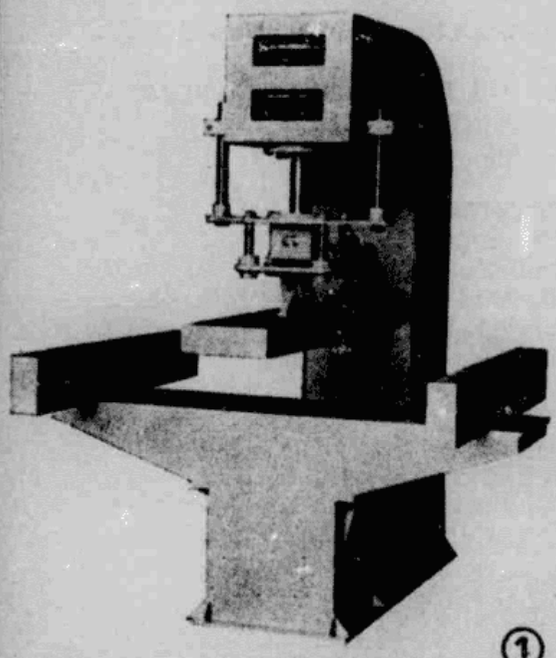
David M. Ward was appointed Advertising Manager for this internationally-known maker of paper machine felts and fabrics. He replaces *E. G. Kedge* who retired in June.

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① Bending and crushing test press for sheet and pipes



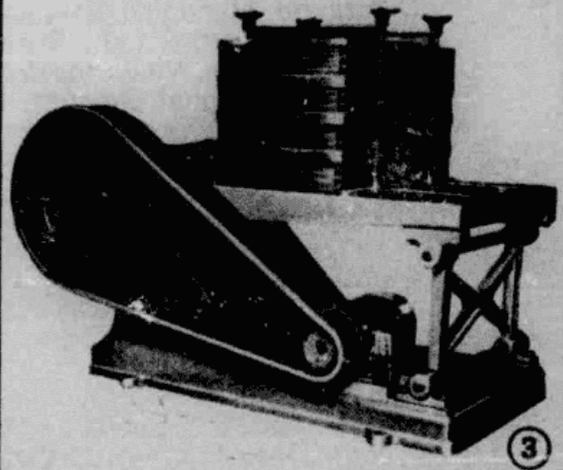
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

SALVANESCHI S.p.A.

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BIRTHDAY GREETINGS to . . .

Morris J. Baty, a Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, December 15.
J. L. Newby, Managing Director, Humes Ltd., Melbourne, Victoria, Australia, December 18.
Faustin J. Solon, Jr., Vice President-Economic Affairs, Johns-Manville, Denver, Colorado, December 18.
D. E. Hillier, Director of Environmental Engineering, Johns-Manville, Denver, Colorado, December 19.
Jeremiah J. Attridge, Vice President-Corporate Advertising & Sales Promotion, Johns-Manville, 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, 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.
S. R. Heath, Jr., Vice President-Purchasing, Johns-Manville, Denver, Colorado, December 28.
P. A. Osborne, Managing Director, Don International Ltd., a subsidiary of Cape Industries Ltd., Manchester, England, December 28.
William B. Hoffman, Vice President-Manufacturing, Gold Bond Building Products, National Gypsum, Buffalo, New York, December 29.
F. P. Parkes, a Director, Cape Industries Ltd., London, England, December 29.
C. R. Harris, Project Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, January 1.
Noel W. Hendry, Division General Manager-Mining, Johns-Manville, 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 Dept., Johns-Manville, Denver, Colorado, January 4.
N. Venkataraman, Managing Director, Hindustan Ferodo Ltd., a subsidiary of Turner & Newall Ltd., Bombay, India, January 4.
J. A. Campbell, Jr., Sales Manager, Refractory Products Department, Johns-Manville, Toledo, Ohio, January 5.
George J. Haufler, President & Chief Operating Officer, CertainTeed Products Corporation, Valley Forge, Pennsylvania, January 8.
J. A. Kerns, Sales Manager, Original Equipment Division, RM Friction Materials Company, Trumbull, Connecticut, January 12.
Alexander Smith, Vice President-Sales, Southern Asbestos Company, Charlotte, North Carolina, January 13.

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Machine performance with
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the best possible felts
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of course.

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VALUABLE LITERATURE

THERMAL/ACOUSTICAL INSULATION FOAM—Report on work done by The Carborundum Company for the Lyndon B. Johnson Space Center, Houston, Texas; describes a lightweight, low-density foam based on a composition of alumina/silica/ceramic fibers; flame-impingement tests revealed the ability of the material to withstand direct flame as compared to standard fiber glass, phenolic-polymer and asbestos foam insulants (the backface temperature of the controlled-density foam was no greater than 650°F during the test period). [1 page; NASA Tech Brief; photocopy available for 20c from this Magazine]

WASTEWATER TREATMENT CONSTRUCTION GRANTS DATA BASE—A new monthly publication which lists the essential facts about all grants awarded by the U.S. Environmental Protection Agency for the construction of wastewater treatment facilities; includes a free State Municipal Project Priority List. [$100.00 per year in the United States; $125.00 per year to all other countries; order from National Technical Information Service, Springfield, Virginia 22161]

THE INSULATION HANDBOOK 1976/77—Useful to those who specify or use thermal, acoustic or vibration insulation materials; this completely metric 10th edition has been updated to encompass the many changes in the insulation industry and the introduction of many new products; includes an expanded geographical list of insulation contractors. [£3. post free; 276 pages; 35 tables; order from Lomax Wilmoth & Co. Ltd., Rickmansworth, England, or through this Magazine]

CORROSION RESISTANT MATERIALS HANDBOOK 1976—Third Edition by I. Mellan; assists the reader in reducing losses due to corrosion by enabling the selection of proper commercially available corrosion resistant materials for a particular purpose; contains an extensive cross-indexing of thousands of substances. [$39.00; 665 pages; order from Noyes Data Corporation, Park Ridge, New Jersey, or through this Magazine]

MEMBRANE TECHNOLOGY AND INDUSTRIAL SEPARATION TECHNIQUES 1976—Chemical Technology Review No. 70 by P. R. Keller; presents over 280 processes described in U.S. patent literature; details fabrication techniques as well as end-use applications. [$39.00; 412 pages; order from Noyes Data Corporation, Park Ridge, New Jersey, or through this Magazine]

EVALUATION OF HOODS FOR LOW VOLUME-HIGH VELOCITY EXHAUST SYSTEMS—Article by W. A. Burgess and J. Murrow of the Harvard School of Public Health which appeared in the Journal of the American Industrial Hygiene Association. [4 pages; photocopy available for 80c from this Magazine]

THE ASBESTOS FACTBOOK, 3RD EDITION—Compiled by the staff of ASBESTOS Magazine; written in layman's terms; offers useful informa-

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tion on the origin, locations and uses of asbestos; gives the chemical compositions of the various types of the mineral; contains data concerning testing methods and grades. [28 pages; $1.00 per paper-bound copy; order from ASBESTOS Magazine]

RECOMMENDED WORK PRACTICES—Five manuals published by the Asbestos Information Association/North America include: "Recommended Work Practices for the Fabrication and Use of Asbestos Paper Products," "Shop and Field Fabrication of Asbestos Sheet Products," "Molding and Fabrication of Asbestos Containing Plastic Products," "Fabrication and Use of Asbestos Friction Materials," and "Use and Handling of Asbestos Textile Products." [$1.35 each plus postage; order from AIA/NA or through ASBESTOS Magazine]

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

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

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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 1,443,173—A composition for coating concrete structures consists of an emulsion of (1) a bitumen having a penetration value between 150 and 40 units, (2) a water-soluble alginate emulsion stabilizer, (3) a divalent salt of calcium or iron and preferably (4) up to 6% by weight of asbestos; B. S. Jackson, H. Venton, M. Blezard & G. Richardson; assigned to Evode Ltd., July 21, 1976; 2 pages.

British 1,444,056—Method of forming an improved porous diaphragm for chlor-alkali cells or the like from a mixture of asbestos, a fluorine-containing rubber latex, calcium carbonate as a pore former and sodium dioctyl sulfosuccinamate as an anionic surfactant; J. Bachot, P. Bouy & M. Juillard; assigned to Rhone-Progil S.A., July 28, 1976; 7 pages.

Canadian 992,404—Dustiness and stickiness of the surface of compacted, asbestos-containing friction articles are lessened by applying to that surface a solution or dispersion of sodium nitrite in polyvinyl alcohol and drying the coated surface with a hot air blast; J. W. Longley; assigned to BBA Group Ltd., July 6, 1976; 10 pages.

U.S. 3,968,072—Electrical insulating components of increased tensile strength are fabricated from a major proportion of Chrysotile asbestos, a minor portion of acrylonitrile-butadiene-styrene polymer and optionally a small amount of a reinforcement-filler component; J. J. Barna; assigned to Johns-Manville Corporation, July 6, 1976; 7 pages.

U.S. 3,972,394—Friction articles having high energy absorption capabilities are formed from a mixture of 10-15% by weight of phenolic resin, 25-45% of asbestos, 10-15% of rubber scrap, 3-12% of graphite, 15-30% of ground barite or talc, 3-7% of alumina or zircon and 7-15% of minus 20-mesh iron particles; M. G. Jacko & B. W. Klein; assigned to The Bendix Corporation, August 3, 1976; 3 pages.

U.S. 3,978,180—Fire resistant building materials or other articles are moulded from a mixture of (1) 100 parts by weight of a mixture of lime and diatomite or fly ash, (2) 10-200 parts of asbestos fiber or other inorganic fiber, (3) up to 5 parts of coal tar, (4) a small amount of sodium hydroxide and (5) an optimum amount of water; H. Ueda, N. Suzuki & M. Nagao; assigned to Sekisui Kagaku K.K.K., August 31, 1976; 13 pages.

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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

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— Auxiliary machines for special sheet profiles.

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— Special plants for preparation of wet and dry Asbestos.

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CALENDAR OF EVENTS

SUCCESSFUL MIDDLE MANAGEMENT—Seminars presented by Practical Management Associates for those who manage multi-level organizations: *December 1-3* in Houston, Texas; *December 8-10* in Spring Glen, New York; *December 15-17* in Laguna Beach, California; and *December 28-30* in San Francisco, California, and Daytona Beach, Florida.

METRIC EMPLOYEE/EDUCATIONAL TRAINING—Seminar sponsored by the American National Metric Council; Dunfey's Royal Coach Hotel, Houston, Texas, *December 2-4.*

AMERICAN SOCIETY FOR TESTING AND MATERIALS—Committee meetings at Braniff Place, New Orleans, Louisiana, include E-5 on Fire Tests of Materials and Construction, *December 5-8;* and D-4 on Road and Paving Materials, *December 7-10.*

UNIVERSITY OF WISCONSIN—Extension Courses in *December* include Wastewater Treatment and Disposal (*6-10*), Environmental Control in Manufacturing (*6-10*), Built-Up Roof Design (*6-10*) and Industrial Electrical System Protection (*7-8*). Courses in *January* include Industrial Liquid Waste Monitoring & Disposal (*10-14*), Pneumatic Conveying Systems (*11-12*), Energy Management for Buildings (*20-21*) and Practical Application of Solar Heating and Cooling in Buildings (*24-25*).

MANAGEMENT OF NOISE CONTROL PROGRAMS FOR OSHA COMPLIANCE—Concentrated Management Course given by Bolt Beranek and Newman, Inc.; *December 7* in Cambridge, Massachusetts; *February 17* in Washington, D. C.; *March 25* in Houston, Texas; and *April 8* in Portland, Oregon.

COMMODITY SUPPLY POLICY—Symposium sponsored by U.S. National Bureau of Standards; NBS Headquarters, Gaithersburg, Maryland, *January 5.*

SUCCESSFUL MIDDLE MANAGEMENT—Seminars presented by Practical Management Associates for those who manage multi-level organization: *January 5-7* in Williamsburg, Virginia; *January 12-14* in Chicago, Illinois, and Sacramento, California; *January 19-21* in Vancouver, British Columbia, and Los Angeles, California; and *January 26-28* in Detroit, Michigan.

MINERAL ENGINEERING AND MANAGEMENT—Seminars at McGill University, Montreal, Quebec: Union-Management-Employee Relations in the Mineral Industry, *January 10-12;* Geophysical Exploration Methods Utilizing Natural Electromagnetic Signals, *January 17-21;* Applied Fragmentation, *January 31-February 4.*

QUALITY AUDIT-DEVELOPMENT AND ADMINISTRATION—Short Course Conducted by the American Society for Quality Control; Cali-

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fornia State University, Northridge, California, *January 17-19.*

BASICS OF INDUSTRIAL HYGIENE—Course offered by the American Industrial Hygiene Association and the National Institute for Occupational Safety and Health; *January 24-28* in New Orleans, Louisiana; *March 21-25* in Chapel Hill, North Carolina.

MODELING AND SIMULATION—Call for Papers for the 8th Annual Pittsburgh Conference on Modeling and Simulation to be held in April 1977 at the University of Pittsburgh; abstracts, etc., should be submitted by *January 28.*

MINING AND METALLURGICAL TECHNOLOGY—Conference at Assiut University, Assiut-A.R., Egypt, *February 7-9.*

ENVITEC '77'—2nd International Exhibition and Congress on Engineering in Environmental Protection; Fairgrounds, Dusseldorf, Germany, *February 7-12.*

ENERGY AND ENVIRONMENT—International Congress held in conjunction with Envitec '77; Fairgrounds, Dusseldorf, Germany, *February 8-10.*

ASBESTOS TEXTILE INSTITUTE, INC.—1977 Winter Meeting; Terrace Garden Inn, Atlanta, Georgia; *February 3-4.*

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REMEMBER WHEN?

(October 1926 ASBESTOS)

New Advertisers: B. Marcuse; The Raybestos Co.

This issue contained a short biography of Walter R. Leventritt whose death was reported in the September 1926 issue.

Also noted was the death of Henry R. Wardell, a consultant to and Director of Johns-Manville, Inc., which occurred on September 15.

Albert Y. Judge, discoverer of the famous Amianthus Asbestos Mine in the Barberton District of the Transvaal, was reported to have died on August 26.

A short article described the Soft Maple Dam Station of Northern New York Public Utilities, Inc., which was, at the time, the largest completely automatic hydroelectric generating station in the United States. It had a total output, at capacity, of 18,750 kva.

The election of J. W. Perry, Vice President of Johns-Manville, Inc., as Treasurer of the National Electrical Manufacturers' Association was announced.

(November 1926 ASBESTOS)

New Advertiser: John Daniell, Mining Engineer & Geologist

"Grey-Rock" was adopted as the trade name of a brake lining newly developed by United States Asbestos Co., Manheim, Pennsylvania. Aside from its uniformly smooth surface (unique in that day of woven linings), the lining was impregnated with a material which allowed it to be shipped and applied in a pliable state but which gradually hardened under the heat of friction into a rigid mass with an excellent gripping surface.

An article on the amphibole asbestos mines at Hollywood, Georgia, appeared in this issue.

J. M. Weaver, of the Keasbey and Mattison Company, reported on the results of a standardization program for asbestos paper and millboard. Under the aegis of the U.S. Department of Commerce (Herbert Hoover, Secretary), the Asbestos Paper Manufacturers' Association had cooperated with representatives of government, industry and consumers to standardize certain thicknesses, widths and roll sizes of asbestos paper and certain thicknesses and a single size (42" x 48") of asbestos millboard. The consequent economies in manufacture and distribution of these materials were resulting in substantial cost savings for manufacturers and users alike. During his term as Secretary of Commerce, Mr. Hoover was responsible for many standardization programs of this sort.

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U.S. POSTAL SERVICE

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

(Required by 39 U.S.C. 3685)

1. TITLE OF PUBLICATION	2. DATE OF FILING
ASBESTOS	9/16/76

3. FREQUENCY OF ISSUE	A. NO. OF ISSUES PUBLISHED ANNUALLY	B. ANNUAL SUBSCRIPTION PRICE
Monthly	12	US-$4.00

4. LOCATION OF KNOWN OFFICE OF PUBLICATION *(Street, City, County, State and ZIP Code) (Not printers)*
131 North York Road, Willow Grove, Pennsylvania 19090

5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS *(Not printers)*
Same

6. NAMES AND COMPLETE ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR

PUBLISHER *(Name and Address)*
Stover Publishing Co., 131 North York Road, Willow Grove, Pa. 19090

EDITOR *(Name and Address)*
D. M. Fagan, 407 Winner Road, Hatboro, Pennsylvania 19040

MANAGING EDITOR *(Name and Address)*
Same as Editor

7. OWNER *(If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)*

NAME	ADDRESS
C. J. Stover	1858 Old Orchard Road, Abington, Pennsylvania 19001

8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES *(If there are none, so state)*

NAME	ADDRESS

9. FOR COMPLETION BY NONPROFIT ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL RATES *(Section 132.122, PSM)*
The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes *(Check one)*

☐ HAVE NOT CHANGED DURING PRECEDING 12 MONTHS ☐ HAVE CHANGED DURING PRECEDING 12 MONTHS *(If changed, publisher must submit explanation of change with this statement.)*

10. EXTENT AND NATURE OF CIRCULATION	AVERAGE NO. COPIES EACH ISSUE DURING PRECEDING 12 MONTHS	ACTUAL NO. COPIES OF SINGLE ISSUE PUBLISHED NEAREST TO FILING DATE
A. TOTAL NO. COPIES PRINTED *(Net Press Run)*	1500	1500
B. PAID CIRCULATION 1. SALES THROUGH DEALERS AND CARRIERS, STREET VENDORS AND COUNTER SALES	**	**
2. MAIL SUBSCRIPTIONS	1038	1121
C. TOTAL PAID CIRCULATION *(Sum of 10B1 and 10B2)*	1038	1121
D. FREE DISTRIBUTION BY MAIL, CARRIER OR OTHER MEANS SAMPLES, COMPLIMENTARY, AND OTHER FREE COPIES	188	206
E. TOTAL DISTRIBUTION *(Sum of C and D)*	1226	1327
F. COPIES NOT DISTRIBUTED 1. OFFICE USE, LEFT OVER, UNACCOUNTED, SPOILED AFTER PRINTING	274	173
2. RETURNS FROM NEWS AGENTS	**	**
G. TOTAL *(Sum of E, F1 and 2—should equal net press run shown in A)*	1500	1500

11. I certify that the statements made by me above are correct and complete.

SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER, OR OWNER
D. M. Fagan Editor

12. FOR COMPLETION BY PUBLISHERS MAILING AT THE REGULAR RATES *(Section 132.121, Postal Service Manual)*

39 U. S. C. 3626 provides in pertinent part: "No person who would have been entitled to mail matter under former section 4359 of this title shall mail such matter at the rates provided under this subsection unless he files annually with the Postal Service a written request for permission to mail matter at such rates."

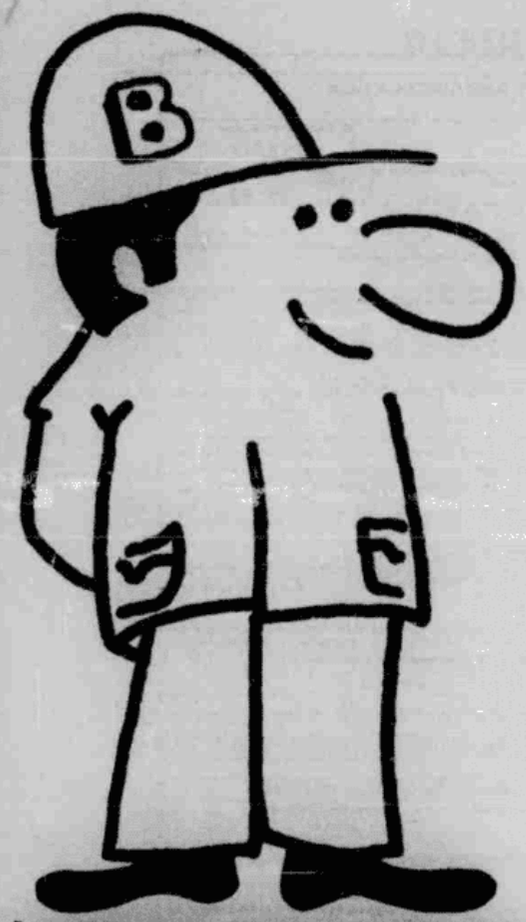
In accordance with the provisions of this statute, I hereby request permission to mail the publication named in Item 1 at the phased postage rates presently authorized by 39 U. S. C. 3626.

SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER, OR OWNER
D. M. Fagan Editor

PS Form 3526, Apr. 1976 *(Page 1)* (See instructions on reverse)

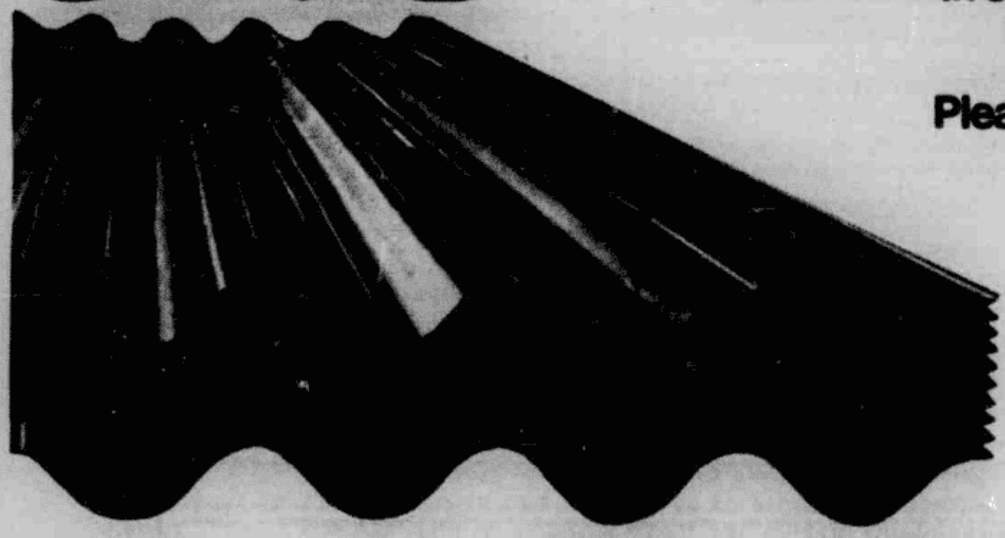
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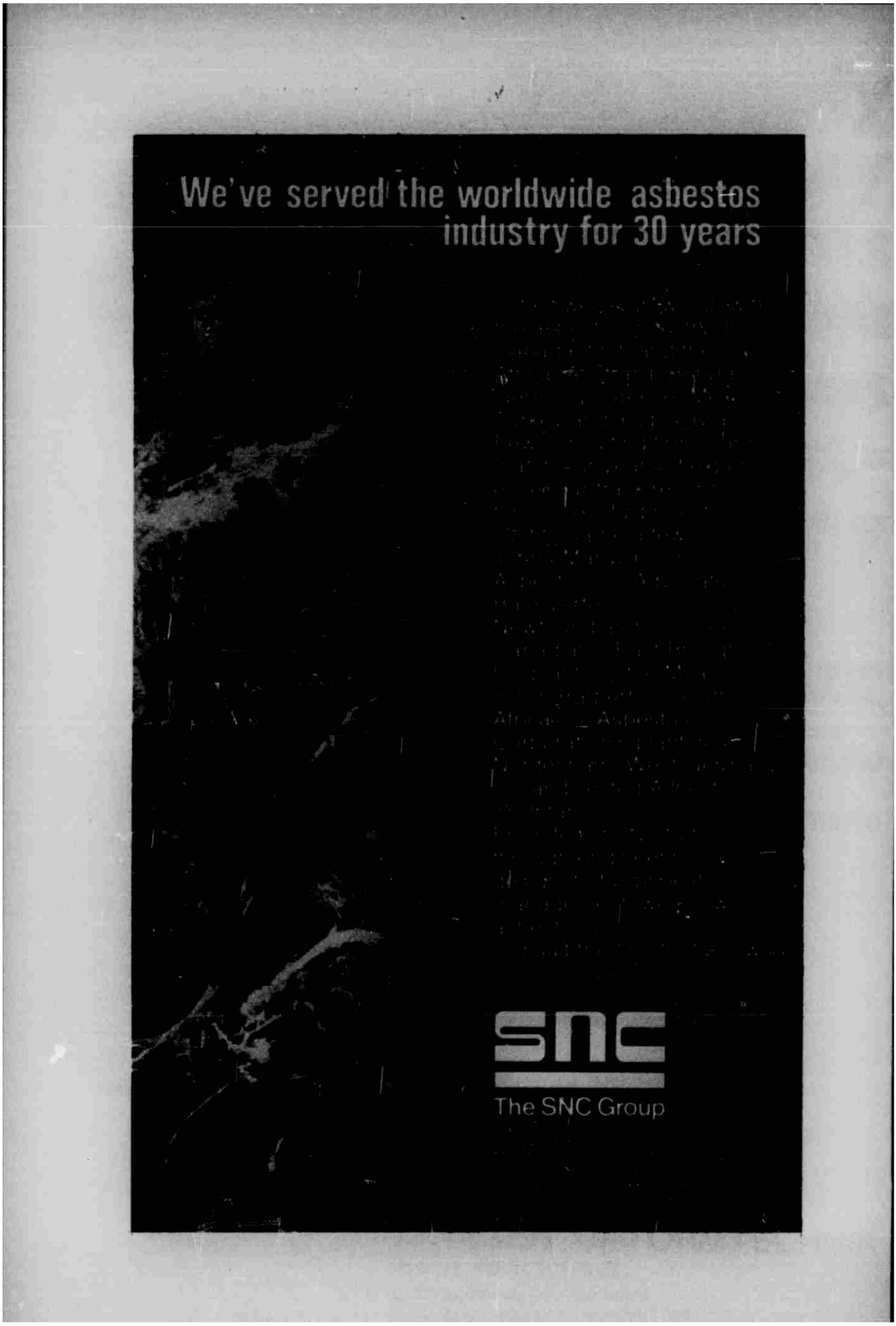
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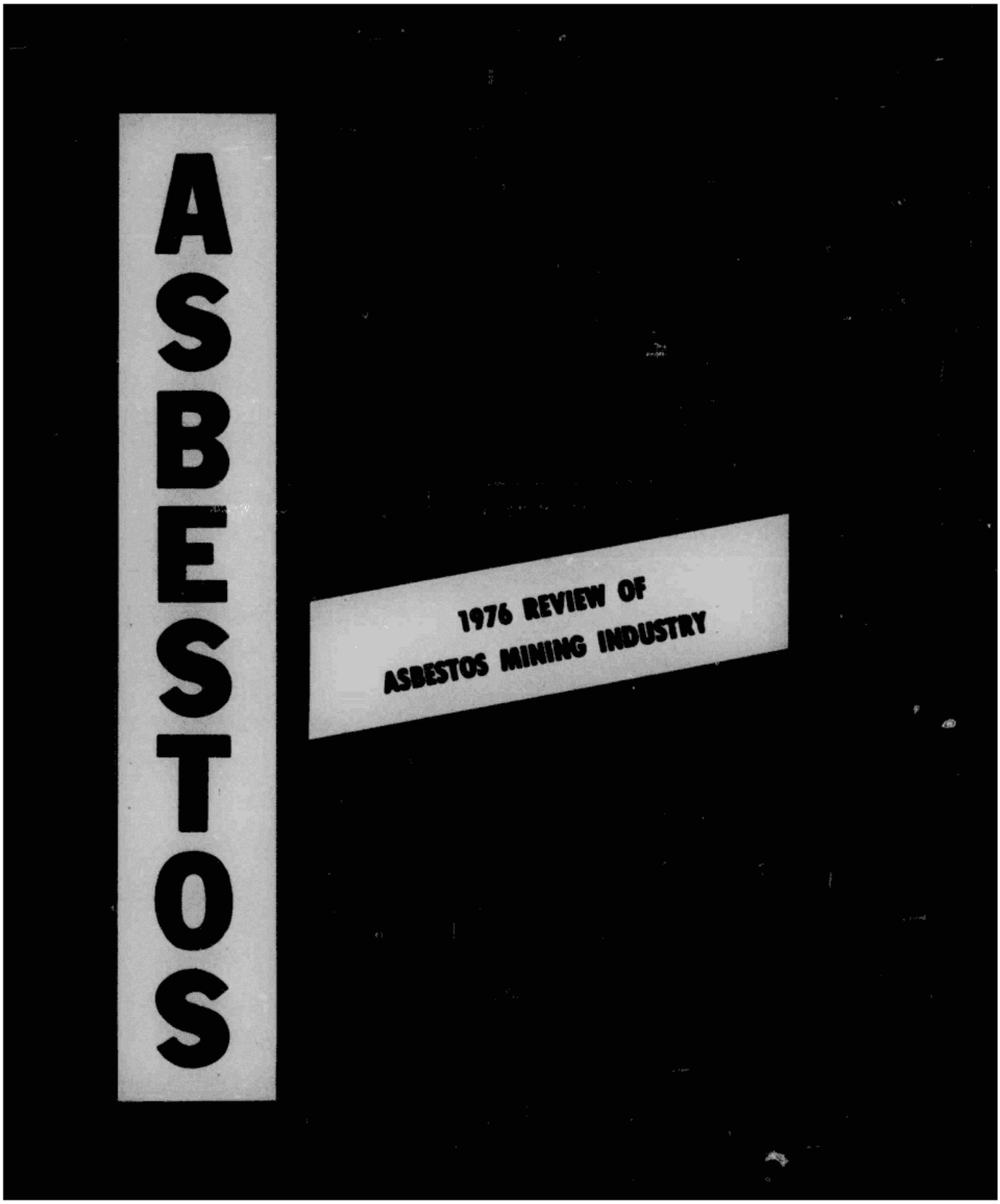
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