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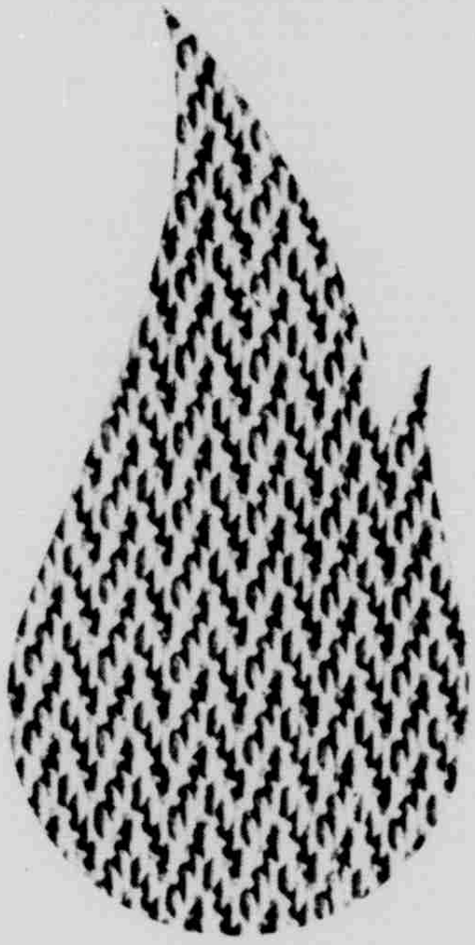
Medical Findings * EPA Standards
Everite Moves to Front Ranks



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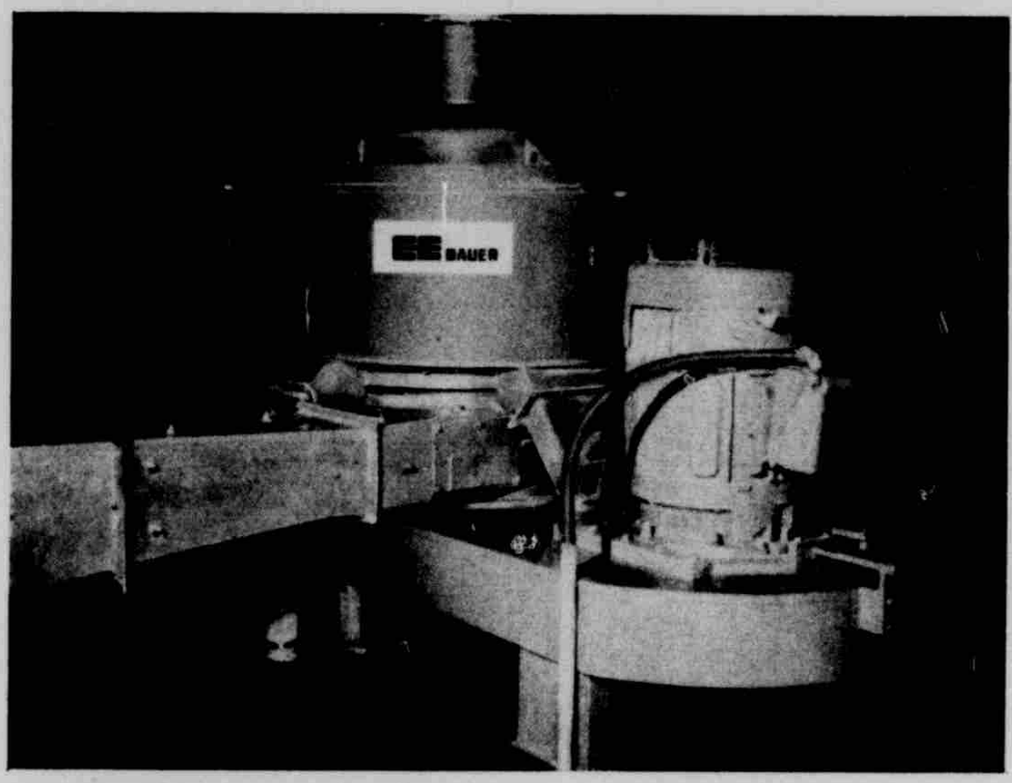
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ASBESTOS

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ASBESTOS NOT A PUBLIC HEALTH THREAT

Recent findings that levels of asbestos dust in the environment do not endanger the general public confirm the position of the Asbestos Industry, according to Matthew M. Swetonic, Executive Secretary of the Asbestos Information Association/ North America. The findings are contained in a report of the Advisory Committee on Asbestos Cancers to the Director of the International Agency for Research on Cancer (IARC), a division of WHO (a World Health Organization agency). They are conclusions of a specially-selected panel of medical researchers convened following the IARC conference on the "Biological Effects of Asbestos" held last October at Lyon, France.

Commenting on the IARC report, Mr. Swetonic calls it a major contribution by distinguished researchers from all over the world and the most comprehensive presentation of facts available about the occupational hazards of asbestos and the relationship of asbestos to the general public. The Lyon conference was attended by 130 participants from 20 countries and is representative of world medical opinion. The major conclusions of the IARC report can be summarized as follows:

(1) The population at large is not threatened by asbestos fibers in the atmosphere. Surveys in a number of countries have shown that the concentration of asbestos dust in the urban atmosphere is about 10,000 times lower than the concentration known to be safe for occupationally-exposed workers.

(2) While a direct relationship between inhalation of excessive asbestos dust and certain diseases was confirmed, risks varied according to the type of fiber, the type of occupation and the extent of engineering controls implemented in the workplace.

(3) No increased risk of disease results from asbestos fibers which might be present in the water supply, beverages, food or in the fluids used for the administration of drugs.

(4) It is confirmed that cigarette smoking greatly increases the risk of lung cancer among men and women exposed to excessive asbestos dust in their occupations.

The IARC report recommends that future research be directed at understanding the mechanism of disease production, at ways to control disease and protect workers from excessive dust levels, at methods to determine the quantity of asbestos fiber in the human lung and other tissues and at the standardization of diagnostic criteria.

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NEW ASBESTOS REGULATIONS FROM EPA

On April 6, 1973, the Administrator of the U.S. Environmental Protection Agency promulgated National Emission Standards for Hazardous Air Pollutants (Asbestos, Beryllium and Mercury) in the Federal Register. Existing sources must achieve compliance with the Standards on or before July 5, 1973, or obtain a waiver of compliance for the time necessary to install controls. New sources must be in immediate compliance with the Standards. Existing sources include those which fall in Categories 1 and 2 below that commenced construction or modification on or before December 7, 1971, and Category 3. New sources refer to those in Categories 1 and 2 that commenced construction or modification after December 7, 1971, and those categorized as 4 and 5.

The following categories of stationary sources are affected by the Standard for Asbestos: (1) asbestos mills; (2) manufacturing of asbestos-containing products; (3) spraying of asbestos-containing insulation or fireproofing; (4) demolition of institutional, commercial or industrial buildings or structures (including apartment buildings having more than four dwelling units) which contain any boiler, pipe or load-supporting structural member that is insulated or fireproofed with friable asbestos material; and (5) surfacing of roadways with asbestos tailings. [See: ASBESTOS, April 1973, page 14]

The regulations require owners or operators of existing sources in Categories 1 and 2 to report certain information to the appropriate EPA Regional Office by July 6, 1973. Sources to be constructed or modified in Categories 1 and 2 must receive EPA approval prior to construction or modification. Owners or operators of sources in Categories 3 and 4 must report certain information no later than 20 days prior to the initiation of each project.

Requests for waivers of compliance should be submitted in writing to EPA within 30 days following the promulgation of the Standards to be assured that action will be taken on the waiver request prior to the 90th day after promulgation. Continued operation in excess of the Standard after the 90th day without a waiver of compliance is a violation of the Clean Air Act of 1970, as amended. [ASBESTOS has a list of the locations of EPA's ten Regional Offices and a limited supply of the April 6th Federal Register listing.]

RUMOR HAS IT . . . that the greatest dust control problem at Flintkote's pipe plant at Ravenna, Ohio, is caused by the torn bags in which Blue asbestos arrives from the U.S. stockpile.

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EVERITE MOVES TO FRONT RANKS

With the August 1972 opening of Everite Ltd.'s new $5-million pipe factory at Kliprivier, in the Transvaal, a significant milestone has been reached in the history of South African asbestos-cement industrial development. Situated 19 miles south of Johannesburg, the 12,000-square-meter plant will contribute materially to the economic structure of the Republic, not only by supplying essential material for expansion of the country's local industrial infrastructure but also by placing Everite in a strong competitive position in overseas markets. As a result of the ultra-modern facility, it is anticipated that annual pipe output at the vast Kliprivier undertaking will increase by about 60% over the 1971 figure of 26,500 metric tons. The factory marks the introduction of a new generation of asbestos-cement manufacturing equipment, which embraces a high degree of automation implemented by the use of the latest technology and modern handling equipment controlled by radio isotopes and electronic circuits. Arrangements are in hand to bring existing pipe and sheet production plants to the same standard of sophistication.

Planning for the new structure began in January 1970. The factory building was completed two years later and included a tarred stockyard, concrete roadways, an auxiliary building and pipe-coating plant, railway siding, a bulk cement silo and various other ancillary equipment. Installation was finished and the first five-meter pipe was produced by April 21st, 1972.

All cladding used for the factory building was manufactured and supplied by Everite's Kliprivier factory. For the roof, Canalit asbestos-cement elements were used for the first time. By virtue of their physical properties, they can be used on unsupported spans of up to six meters, thus permitting potential savings in structural work. The precast concrete beams with a span of 42 meters and a weight of 85 metric tons are the heaviest yet to be made in South Africa.

The factory can manufacture one-million meters (820 miles) of pipe a year and the largest inside-diameter pipe in the southern hemisphere. Those who attended the official opening had opportunity to tour the stockyard and view, first hand, a pipe 1800mm in diameter. Everite believes that in its own particular field it has moved to the front ranks, internationally.

THE COVER

Everite's new asbestos-cement pipe factory at Kliprivier.

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J-M TRANSITE—THE THIRST QUENCHER

The first international pipeline between the United States and a foreign country has ended water rationing for 360,000 Tijuana residents. Recently completed, the mile-long stretch of Transite 24" (Class 200) asbestos-cement pipe, from Johns-Manville Corporation, is the first phase of a two-part project to provide Colorado River water to the Mexicans under a five-year agreement. The line extends from the international boundary to a point 5,900 feet north where it connects with a 24" main on the Otay Municipal Water District system in San Diego County. It is tied into the existing main as an interim method until completion of phase two which will extend the line to the terminus of the Otay Lakes Reservoir, about two miles north of the border. The $400,000 cost of phase one was totally financed by the Mexican government. The water belongs to Mexico via a 30-year-old treaty under the Colorado River Compact.

FLOORING SUBSTRATE FROM TAC

TAC Construction Materials Ltd., a subsidiary of Turner & Newall, Ltd., is nearing completion of development work on its latex-bound asbestos flooring substrate and anticipates being the first manufacturer of such a product in the U.K. Used as a base for continuous vinyl flooring, the asbestos felt is dimensionally stable, will not shrink or swell and will retain its shape under varying conditions of temperature, tension and humidity. It will absorb a large quantity of moisture and provides a ready egress for water and water vapor by gradually passing it into the atmosphere from the edges of the flooring installation. About 90% of its applications will be for domestic use and the remainder for light contract work.

SUPRADUR PRODUCTS CATALOG

Supradur Corporation of New York has prepared a catalog on its preshrunk mineral fiber siding and roofing products, available in nine styles, four sizes, ten cergran finishes and twelve earth-tones. The finishes have ceramic granules permanently embedded in the panels and require no maintenance. The roofing shingles, which carry Underwriters' Laboratories Class "A" and "B" labels, provide permanent fire protection when applied in accordance with instructions. A unique quality of the sidings has led to the development of a new application method, the "Supradur Channel Shake" system, which the company claims can save builders up to $10.00 per square.

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NEW R/M HEADQUARTERS

Raybestos-Manhattan, Inc., held groundbreaking ceremonies in January for a new 45,000-square-foot Corporate Headquarters building. To be erected on a ten-acre site in R/M's Fairfield County Executive Park adjoining the Merritt Parkway in Trumbull, Connecticut, the $2-million contemporary structure is expected to be ready for occupancy in early 1974.

CAPE BUYS J-M INTEREST

The Cape Asbestos Co. Ltd. acquired Johns-Manville Corporation's 47% interest in Marinite Ltd., Glasgow, manufacturers of incombustible insulation board. Marinite has thus become wholly-owned by Cape Asbestos.

TBA EXPANDS PTFE BUSINESS

Terms were agreed to between Alenco, the engineering components subsidiary of Charterhouse Industries, and TBA Industrial Products Ltd., a Turner & Newall company, for the acquisition by TBA of the business and plant for the manufacture of PTFE threadseal tape and PTFE moulded products carried out by Alenco Hilyn, of Enfield, England.

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ATI GENERAL MEETING

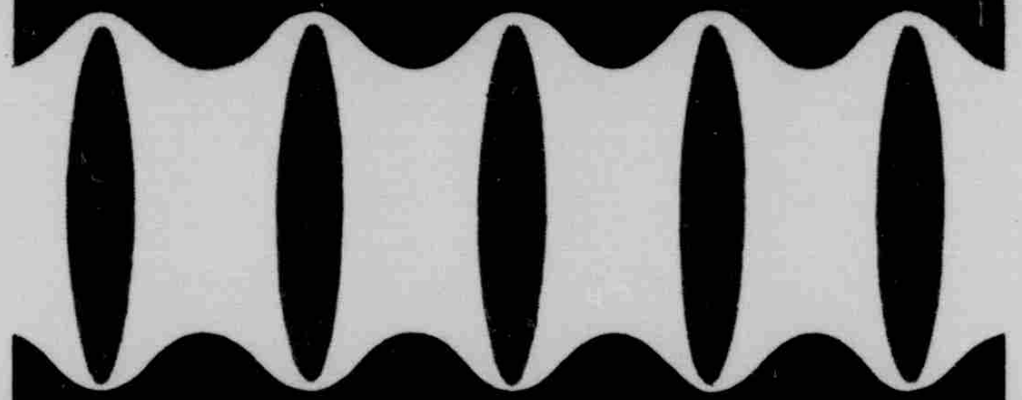
The ultra-modern Hyatt Regency Hotel in Atlanta, Georgia, was the site of the two-day meeting held in February by the Asbestos Textile Institute. Activities within the working committees were as follows. The *Air Hygiene & Manufacturing Committee* discussed recent experiences with OSHA inspections; cleaning to meet OSHA standards; protective clothing, lockers, etc.; noise control; and changes and improvements in manufacturing. As replacements for M. L. Lindstrom who terminated his association with the Institute due to a reassignment at Johns-Manville Corporation, E. W. Russell was appointed Chairman of the *Asbestos Advisory Committee* and Thomas P. Jackson was named a member of the *Board of Governors*. The *Technical Committee* reviewed various ASTM Standards concerned with asbestos textiles and continued its project to develop a meaningful test for determining the amount of dust generated by a given asbestos cloth when subjected to subsequent fabrication. The *Fiber Research & Testing Committee* devoted its time exclusively to work on the third edition of the Test Manual for Chrysotile Asbestos, which may be available by the Fall of this year. The meeting of the *Environmental Health Committee* included discussions of problems associated with the method of measurement of airborne asbestos fibers and the NIOSH criteria for recommended standards, particularly for noise and heat stress.

The *General Meeting* was opened by President M. Q. Scowcroft, Raybestos-Manhattan, Inc., with a welcome to all in attendance (13 member companies were represented) and the advice that the Board of Governors is making every effort to strengthen the organization and has innovative, exciting plans for future meetings. He then introduced the new Executive Secretary of the Institute—Mrs. Doris M. Fagan, Editor of ASBESTOS Magazine. She replaces Herbert E. Sunbury, who had served in that capacity for the last nine years and who had announced his retirement at the previous meeting. The Legal Counsel address, given by W. B. Alcorn of Cadwalader, Wickersham & Taft, was concerned with some of the basic principles of antitrust law which govern the distribution and marketing of products. Next on the agenda was the Fibre Producers' Report, presented by Paul E. Leclerc, Regional Sales Manager with Asbestos Corporation Ltd. He advised that Eastern Quebec producers' stocks of Group 3 Spinning Fibre are good and production should be adequate for any increase in demand.

The next General Meeting of the Asbestos Textile Institute will be held June 6th and 7th, 1973, at the Key Bridge Marriott, Arlington, Virginia.

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MARKET CONDITIONS

GENERAL BUSINESS

The boom in the general economy was confirmed by figures released by the Commerce Department in April. These showed the Gross National Product increased at an annual rate of 14.3% during the first quarter of 1973, the highest quarterly increase since 1951. The portion of the increase due to inflation was a whopping 6%, a definitely unhealthy and unwelcome figure. The 8.3% representing real growth was likewise a danger signal when it is remembered the Government's goals for all of 1973 totalled only 10% growth in GNP including a 2.5% inflation factor.

Lead times on many manufactured goods have increased substantially over the past few months and real shortages are developing in some areas. A continuation of present trends can force still higher wages, prices and interest rates. Latest boosts in the prime interest rate moved it to the 7% level previously predicted for mid-1973.

Thus far the administration has disclaimed any intention to re-institute strict price and wage controls but there are some rumblings from Washington about possible tax increases to slow the rate of inflation. Such measures could have, at best, a delayed effect which would probably come too late to put a lid on the boom conditions now existing. A further complication lies in the fact that much of the current surge is the result of a strong rise in consumer spending accompanied by a drop in personal savings. It is difficult to see what steps could be taken to curb spending of this type. It may be that a point will be reached where consumers will stop dipping into savings and, at that point, higher interest rates on small loans could serve as a brake on further spending for consumer durable goods. However, up to now, many banks which have increased their prime rates have stated their intentions to hold their present rates to small borrowers. How long they can maintain this position remains to be seen.

Meanwhile, investors and speculators, alarmed by the specter of unchecked inflation and unimpressed by the excellent earnings of many large corporations, are taking a wait-and-see attitude and the stock market is reflecting this by continuing its slow decline.

PILOT MANUFACTURING COMPANY
is welcomed as a new advertiser — see page 54

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SWEET'S GUIDELINES

Literature relating to products and equipment used in the construction industry is diverse and often imprecise or incomplete. As a result, it is frequently inadequate for users and thus fails to achieve the communication objectives of the manufacturers who publish and distribute it.

Research by the Sweet's Division of McGraw-Hill Information Systems Company has shown that a uniform approach to product information is essential to designers, project architects, specifiers and engineers who refer to product literature at different stages of a construction project. Based on this research, Sweet's Division has developed a GuideLines program to establish a uniform approach, not only to format, but also to content and terminology of product information based on the needs of the professional users.

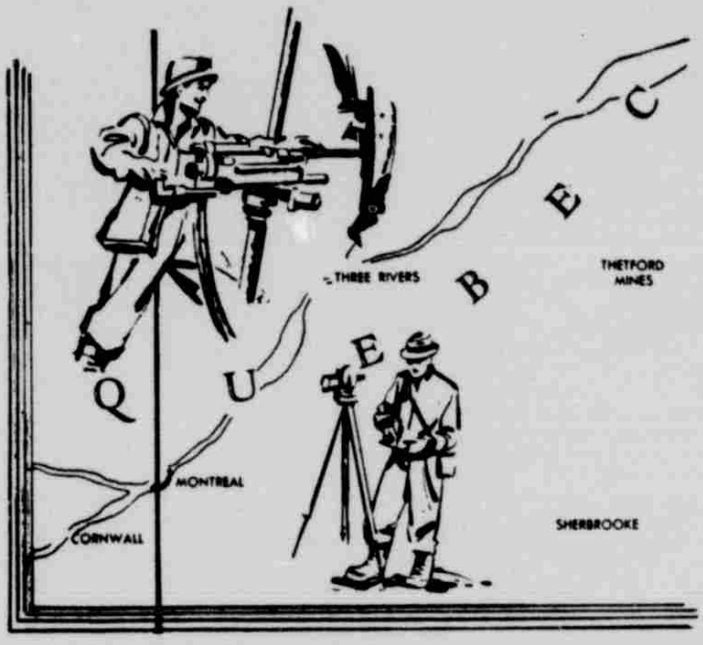
The Sweet's GuideLines comprise a series of more than 230 individual documents that recommend detailed organizational frameworks for information that manufacturers should include to produce comprehensive and effective catalogs for different building products.

The structure of the GuideLines documents is designed to increase the comprehensiveness of product literature, the usefulness of the included information and the ease of information retrieval. It also represents an advance toward commonality of terms and improved accuracy of references. This uniform approach to product descriptions enables users of product literature to save enormous amounts of time they would otherwise have to spend on research to find the information necessary to make valid product comparisons.

Previously developed programs for providing product information have included only general criteria which fail to take into account the individual and frequently all-important differences between products and the requirements of different users of product literature at different stages in the product selection process. The new GuideLines list specific points of information needed for comprehensive product descriptions and for product evaluations during each phase of a construction project. The first section of each document presents the basic data needed for quick comparative evaluations during the preliminary stages of product selection. The following detailed technical information and supporting data concentrate on the product as assembled and installed, the potential performance of the total assembly, and installation methods. Insofar as possible, nothing irrelevant to a product is included nor is anything of importance omitted.

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Since the introduction of the first GuideLines documents more than a year ago, the architectural and engineering consultants and salesmen of Sweet's Division have been using them to help manufacturers analyze and improve the catalogs they now or may in future include in the annual Sweet's Catalog Files. Any manufacturer can obtain free copies of the individual GuideLines documents pertaining to his products by writing: Maria S. Eldar, AIA, Manager, Sweet's GuideLines, McGraw-Hill Information Systems Company, 1221 Avenue of the Americas, New York, New York 10020.

CONSTRUCTION NEWS

MARCH 1973 contracts for future construction work were valued at $8,644,404,000, higher by 19% than the same month a year ago. *Nonresidential* building contracts totaled $2,707,402,000, a 25% advance from the year-ago month. Newly-started *residential* construction totaled $4,643,106,000 for a 29% margin over the same 1972 month. *Nonbuilding* construction contracts declined 12% to $1,293,896,000.

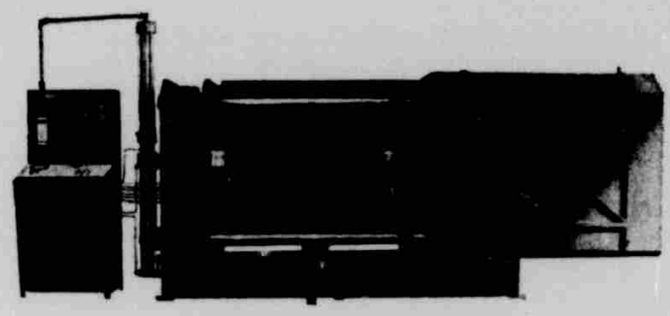
Cumulative construction contract value for the *First Quarter of 1973* totaled $22,267,419,000: Nonresidential, $7,333,-302,000, up 29%; Residential, $11,143,187,000, up 25%; and Nonbuilding, $3,790,930,000, down 10%. The three-month total was 18% ahead of the same period in 1972. "Strong gains in industrial and commercial construction in response to the accelerating pace of business activity, and the continuing boom in homebuilding despite growing concern about excess" were among the factors cited by George A. Christie, Dodge Vice President and Chief Economist, as leading to the unusually high level of building in this year's opening quarter. He warned that "building values are once again being seriously inflated by sharply rising construction costs." [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

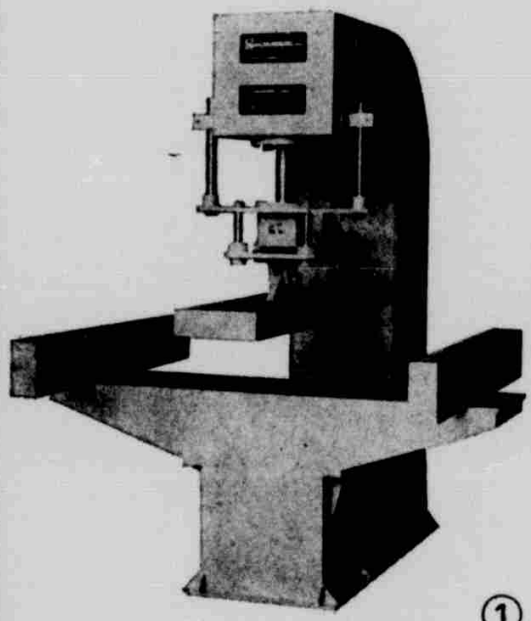
FEBRUARY 1973 motor vehicle factory sales from plants in the *United States* totaled 1,108,250 (passenger cars—855,095; trucks and buses, 253,155). The cumulative total for the First Two Months of 1973 was 2,272,521 compared with 1,843,930 for the same period in 1972. . . . Motor vehicle factory sales from plants in *Canada* totaled 280,164 in January-February 1973 against 239,873 for the like 1972 period. [Motor Vehicle Manufacturers Association of the U.S., Inc.]

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① Bending and crushing test press for sheet and pipes



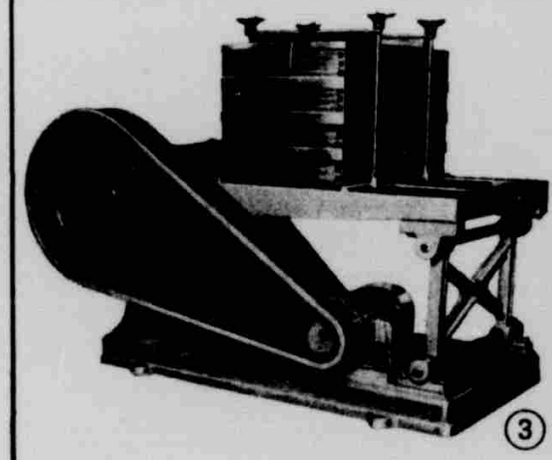
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		DECEMBER 1972	
Amosite, South Africa	s.tons	64	$ 14,112
Crocidolite (Blue), South Africa	s.tons	486	98,169
Chrysotile, Crudes, Canada	s.tons	23	1,304
Rhodesia	s.tons	20	8,600
Chrysotile, Spinning Fibers, Canada	s.tons	597	237,491
Chrysotile, Other, Canada	s.tons	53,072	5,765,293
Other Crudes & Fibers, Canada	s.tons	75	2,931
Finland	s.tons	155	19,333
South Africa	s.tons	99	21,734
		54,591	$ 6,168,967

Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	256,063	$ 233,214
A-C pipes, tubes and fittings	Lb	3,114,199	193,748
A-C articles, other	Lb	1,449,643	292,892
Asbestos articles, other		..	155,921
			$ 875,775

Unmanufactured Asbestos:		YEAR 1972	
Amosite, Mozambique	s.tons	68	$ 11,829
South Africa	s.tons	7,125	1,331,310
Crocidolite (Blue), Bolivia	s.tons	29	2,966
South Africa	s.tons	5,374	1,167,107
Chrysotile, Crudes, Canada	s.tons	66	9,974
Mozambique	s.tons	360	73,466
Rhodesia	s.tons	200	98,900
South Africa	s.tons	2,439	557,737
Swaziland	s.tons	40	21,200
Chrysotile, Spinning Fibers, Canada	s.tons	11,599	5,316,490
South Africa	s.tons	16	7,105
Yugoslavia	s.tons	843	11,503
Chrysotile, Other Canada	s.tons	699,609	78,267,073
Other Crudes & Fibers, Canada	s.tons	2,621	309,648
Finland	s.tons	2,243	160,246
Greece	s.tons	6	1,361
Italy	s.tons	2	2,576
Mozambique	s.tons	597	117,759
South Africa	s.tons	1,431	219,804

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Switzerland	s.tons	4	1,538
Yugoslavia	s.tons	843	42,611
		735,515	$87,732,203
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	4,274,730	$ 3,874,295
A-C pipes, tubes and fittings	Lb	35,494,572	1,868,866
A-C articles, other	Lb	19,907,573	3,252,830
Asbestos articles, other		..	2,326,474
			$11,322,465

AUSTRALIA

Production of non-acoustic asbestos-cement sheets from *July-September 1972* totaled 11,956,000 square yards, compared with 11,824,000 square yards during the same three-month period of 1971. [Commonwealth Bureau of Census and Statistics, Canberra]

CANADA

Producers' shipments of asbestos (including tonnage for own use) in *January 1973* totaled 136,731 short tons, compared with 104,248 tons in January 1972. . . . Shipments during *February 1973* reached 141,285 tons: 113,398 tons from plants in Quebec and 27,887 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for February 1972 was 114,873 tons. . . . The *cumulative total* of shipments for *January-February 1973* was 278,016 tons: 219,342 tons from Quebec plants and 58,674 tons from plants in the other four Provinces. The total for the same period the previous year was 219,121 tons. [Statistics Canada, Ottawa]

EXCERPTS FROM MINERALS YEARBOOK 1971

AUSTRIA—Except for magnesite and graphite, mineral production was insignificant by world standards and imports of raw minerals and fuels were essential to sustain the industrial economy. In 1970, exports of asbestos reached 29 metric tons and imports amounted to 34,155 tons (from Canada, the USSR and South Africa).

BULGARIA—The bulk of Bulgaria's mineral and metal industry is based upon raw material imports from the USSR and other Communist nations of East Europe. Preliminary production figures for 1971 include an estimated 3,000 tons of asbestos. For 1970, exports amounted to 4,655 tons and imports reached 21,200 tons.

COLOMBIA—Design work for the Las Brisas asbestos project in the northern part of the Department of Antioquia had been assigned to General Engineering Company, Toronto. The mining and milling facilities are expected to mine and process 36,000-63,000 tons of ore annually and are to be operated by Asbestos Colombianas, S.A., in which Nicolet Industries, Inc., holds a 70% interest. Colombia imported 16,763 tons of crude asbestos in 1970.

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**DECEMBER 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	2,382	$ 442,666
Waste and refuse	s.tons	1,680	188,622
		4,062	$ 631,288
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	761,062	$ 77,936
Other a-c or fiber-cement articles	Lb	406,094	92,835
Gaskets	Lb	28,002	41,707
Packing	Lb	260,546	493,488
Heat or sound insulation		..	121,353
Textiles and yarns	Lb	1,481,121	479,136
Protective clothing		..	33,997
Mfrs. other than friction materials		..	334,649
Cl. facings and linings for auto. use	No	127,031	64,640
Other clutch facings and linings	No	90,246	51,070
Brake linings for automotive use	Lb	452,465	310,918
Other brake linings	Lb	267,451	197,211
			$ 2,298,940

Unmanufactured Asbestos:		**YEAR 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	22,081	$ 3,786,059
Waste and refuse	s.tons	29,711	3,835,400
		51,792	$ 7,621,459
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	20,732,017	$ 2,307,607
Other a-c fiber-cement articles	Lb	19,298,922	2,148,247
Gaskets	Lb	523,081	935,421
Packing	Lb	4,293,564	6,526,589
Heat or sound insulation		..	1,772,061
Textiles and yarns	Lb	17,286,830	4,863,444
Protective clothing		..	320,282
Mfrs. other than friction materials		..	4,623,428
Cl. facings and linings for auto. use	No	1,778,271	1,425,549
Other clutch facings and linings	No	949,304	482,163
Brake linings for automotive use	Lb	6,209,525	4,366,514
Other brake linings	Lb	2,782,921	2,286,528
			$32,057,833

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EXPORTS FROM CANADA

Figures from Statistics Canada

DECEMBER 1972

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	346	16,663	17,640
Eastern Europe	..	60	500	260
Middle East	..	..	317	89
Africa	..	..	460	600
Asia	2	263	10,789	19,046
Oceania	..	..	3,689	514
So. & Cen. America & Antilles	..	71	4,353	3,831
United States	..	502	16,224	35,513
	2	1,242	52,995	77,493

The total amount of unmanufactured asbestos exported in *December 1972* was 131,732 short tons, valued at $18,007,000.

Manufactured Asbestos Goods:

Brake linings and facings	$	76,000
Asbestos-cement building materials		180,000
Other basic products		149,000
	$	405,000

YEAR 1972

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	21	9,184	277,216	156,078
Eastern Europe	..	2,069	21,793	1,608
Middle East	..	111	19,706	6,635
Africa	..	110	9,613	3,259
Asia	17	3,013	89,374	118,588
Oceania	..	56	48,213	11,033
So. & Cen. America & Antilles	..	891	75,267	30,132
United States	17	13,756	197,344	503,552
	55	29,190	738,526	830,885

The total amount of unmanufactured asbestos exported in the *Year 1972* was 1,598,656 short tons, valued at $229,812,000.

Manufactured Asbestos Goods:

Brake linings and facings	$	847,000
Asbestos-cement building materials		2,153,000
Other basic products		2,366,000
	$	5,366,000

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LATEST ASBESTOS PRICES

ARIZONA — Per Ton of 2000 Lbs, F.O.B. Globe, Arizona

[As of August 1, 1968] — U.S. Dollars

No. 1 Crude	$1410.00—$1650.00
No. 2 Crude	700.00— 950.00
AAA	.. 800.00
Group No. 3—Nonferrous Filtering-Plastic	425.00— 700.00
Group No. 4—Nonferrous Filtering-Plastic	400.00— 500.00
Group No. 5—Nonferrous Filtering-Plastic	385.00— 425.00
Group No. 6—Nonferrous Plastic	.. 250.00
Group No. 7—White Shorts	65.00— 90.00

CANADA — Per Ton of 2000 Lbs., F.O.B. Mine

[As of July 1, 1971] — Canadian Currency

No 1 Crude	$ .. $1615.00
No. 2 Crude	.. 875.00
No. 3—Spinning Fiber	412.00— 675.00
No. 4—Asbestos-Cement Fiber	227.00— 383.00
No. 5—Paper Fiber	164.00— 195.00
No. 6—Paper and Shingle Fiber	.. 120.00
No. 7—Shorts	52.00— 100.00

CASSIAR — Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.

[As of April, 1973] — Canadian Currency

Cassiar Mine

C-1	$1522.00
AAA Grade—Nonferrous Spinning Fiber/Canadian Gp 3	.. 895.00
AA Grade—Nonferrous Spinning Fiber/Canadian Gp 3	.. 711.00
A Grade—Nonferrous Spinning Fiber/Canadian Gp 3	.. 541.00
AC Grade—Nonferrous Spinning Fiber/Canadian Gp 3	.. 388.00
AK Grade—Asbestos-Cement Fiber/Canadian Group 4	.. 276.00
AS Grade—Asbestos-Cement Fiber/Canadian Group 4	.. 240.00
AX Grade—Asbestos-Cement Fiber/Canadian Group 5	.. 219.00
AY Grade—Asbestos-Cement Fiber/Canadian Group 5	.. 155.00
AZ Grade—Asbestos-Cement Fiber/Canadian Group 6	.. 114.00
Talus	233.00

Clinton Mine

CP Grade—Asbestos-Cement Fiber/Canadian Group 4	..$ 261.00
CT Grade—Asbestos-Cement Fiber/Canadian Group 4	.. 235.00
CY Grade—Asbestos-Cement Fiber/Canadian Group 5	.. 155.00
CZ Grade—Asbestos-Cement Fiber/Canadian Group 6	.. 114.00

VERMONT — Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont

[As of January 3, 1972] — U.S. Dollars

Grades 3T and 3Z—Fiber	$ 400.00—$ 428.00
Grades 4A thru 4T—Fiber	218.00— 371.00
Grades 5D thru 5R—Fiber	157.50— 185.00
Grade 6D—Waste	.. 114.00
Grades 7D thru 7T—Shorts	48.00— 95.00
Grade 7TF—Floats (Shorts)	.. 43.50
Grade 8S—Shorts	.. 30.00
Hooker No. 1—packaged in 50-lb. Woven Poly Bags	.. 436.00
Hooker No. 2—packaged in 100-lb. Woven Poly Bags	.. 218.00

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Helsinki 13

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PROJECTS INCLUDE:

Canada:	Advocate, Baie Verte, Newfoundland Johns-Manville, Mill No. 5, Asbestos, Quebec Johns-Manville, Reeves, Ontario Carey-Canadian, East Broughton, Quebec Flintkote, Thetford Mines, Quebec
Australia:	Woodsreef Chrysotile Corp., Barraba, N.S.W.
South Africa:	Msauli, Barberton
West Germany:	Asbestos Corporation, Nordenham

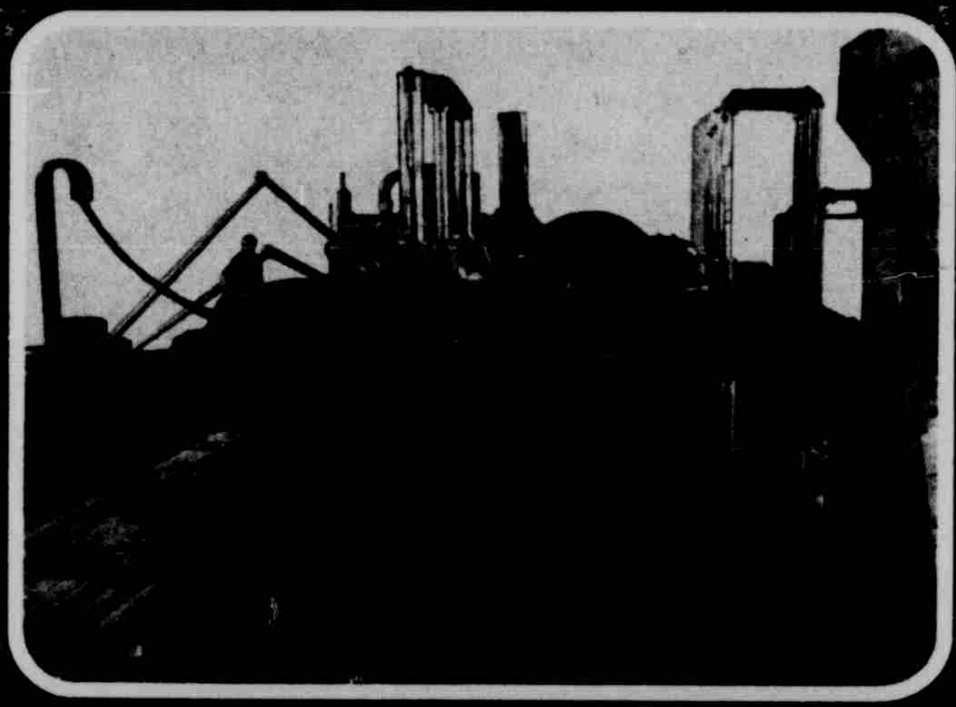
Feasibility studies have been carried out in Australia, Bolivia, Turkey, Canada, Greece and Mexico.

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KENYA A/C FIRM

Further information has been received from L. J. Canham, General Manager of Kenya Asbestos Cement Co. Ltd., concerning the new asbestos-cement products factory to be built at Mombasa, Kenya [See ASBESTOS, April 1973, page 34].

Production from the factory is expected to begin early next year. It will initially operate on an eight-hour shift and should reach an annual production rate of 6,000 to 7,000 tons of products such as asbestos-cement corrugated roofing sheets, ridgings, tiles, water tanks and sunbreakers. This production figure is similar to the total amount consumed by the local market, including Tanzania. Planning is in the offing to develop an increase in local demand and later to export to the Indian Ocean islands and possibly to the Gulf area. By 1977 or 1978, the factory should be operating on a 24-hour basis.

The building has been designed to accommodate two sheet machines, should sales warrant a second production line in the future. Meanwhile, the large proportion of the space allocated for the second line will be utilized by the Moulding Department.

Although nothing is on the planning board as yet, it is envisioned that a pipe-making machine will ultimately be installed which would involve the construction of another factory located in close proximity to the existing structure, together with a common Asbestos Store.

Insofar as raw material is concerned, cement will be supplied in bulk by Bamburi Portland Cement Co. Ltd. and the asbestos fiber that will be used will be of the Chrysotile variety.

I. L. Roberts, Managing Director of Bamburi Portland Cement, is Managing Director of the new company and negotiations are underway for the appointment of a Works Manager.

WOODSREEF TO EXPAND

As a result of planned expansions to the mine and mill in New South Wales, Australia, Woodsreef Mines Ltd. anticipates the production of some 80,000 tons of asbestos this year and 115,000 tons in 1974. Negotiations are currently underway for the purchase of additional mining equipment. Woodsreef Mines is reported to have arranged new financing of $A1.3 million to enable the commencement of the expansion project. [Mining Journal]

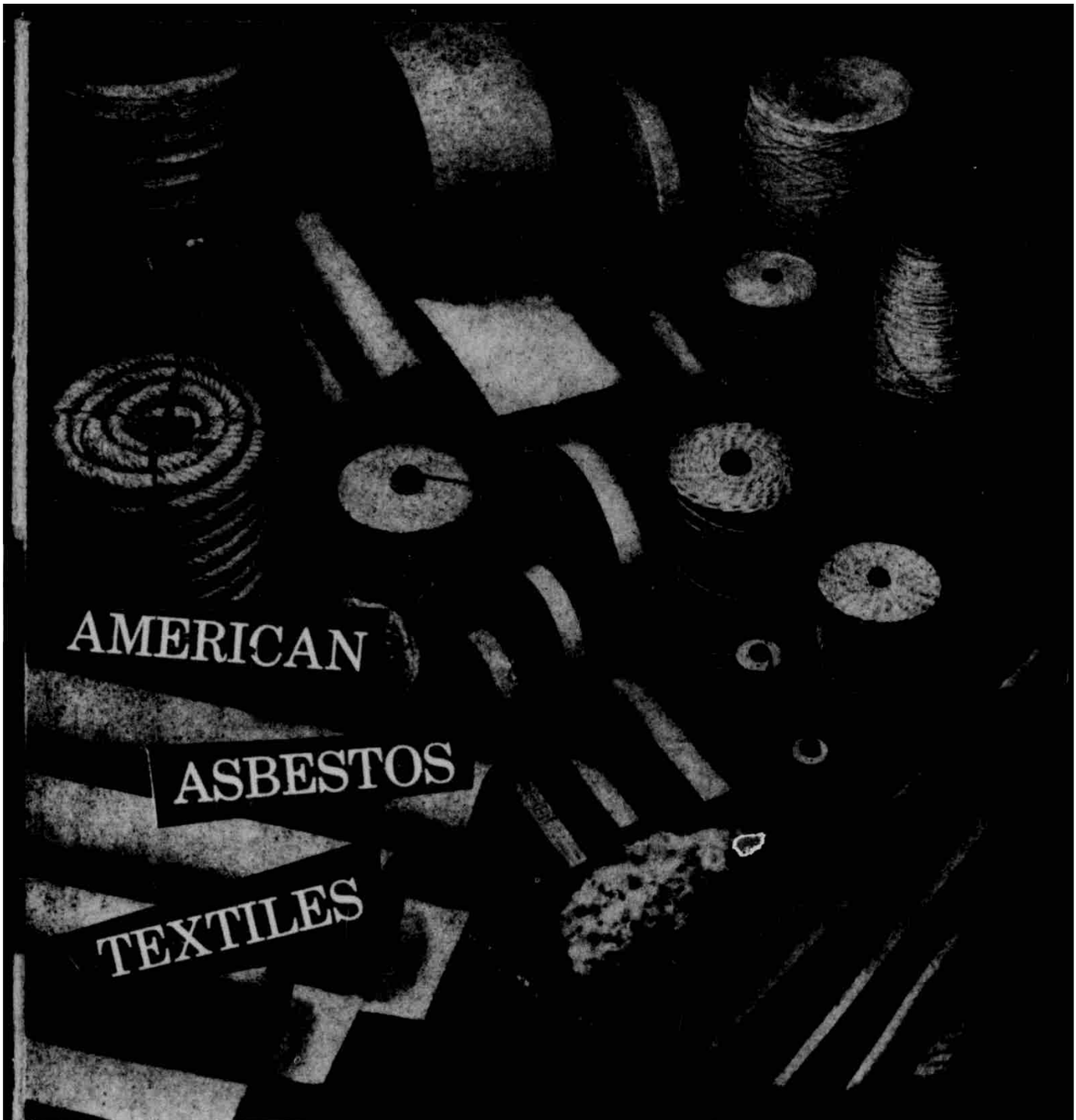
TRUTH TO THE RUMOR?

Asbestos is found in the strangest of places! It is being rumored, via the perennial grapevine, that a very-promising Tremolite occurrence has been discovered in Texas. Long fibers suitable for spinning are said to exist at, of all places, a service station property.

Have you ordered your copy of

"The Asbestos Factbook"?

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NOTES FROM ANNUAL REPORTS, 1972

ASBESTOS CORPORATION LTD.

Asbestos Corporation Ltd. reported that although sales in 1972 were almost the same as in the previous year insofar as tonnages were concerned, the $49,520,868 value was 5.3% lower, reflecting a deterioration in prices and that the larger proportion of sales was made in the lower-priced grades. Net earnings were $1,376,088 compared to a restated figure of $6,206,514 in 1971. The reduced earnings were the result of bringing into operation the Asbestos Hill Mine at Ungava and reduced profits from established operations at Thetford Mines. A reduction of excess inventories and more buoyant economies in major world markets for Canadian asbestos give reason to expect that overall consumption will increase in 1973 and that an improvement in sales will occur.

The first shipment of ungraded fiber from the Asbestos Hill Mine arrived at the Nordenham, West Germany, plant in late September to support production which had been planned to commence in November. However, due to a hurricance severely damaging the storage building and the ship's unloading equipment, start-up of the plant was delayed beyond the end of the year.

In 1972, due to depressed sales, milling operations at Corporation's three properties in the Thetford Mines area were scheduled at below 1971 levels of production. Overall annual asbestos production was about 5% belcw that attained in 1971. Average daily tonnages in 1972 reached 38,741 tons of ore processed and 1,192 tons of asbestos produced.

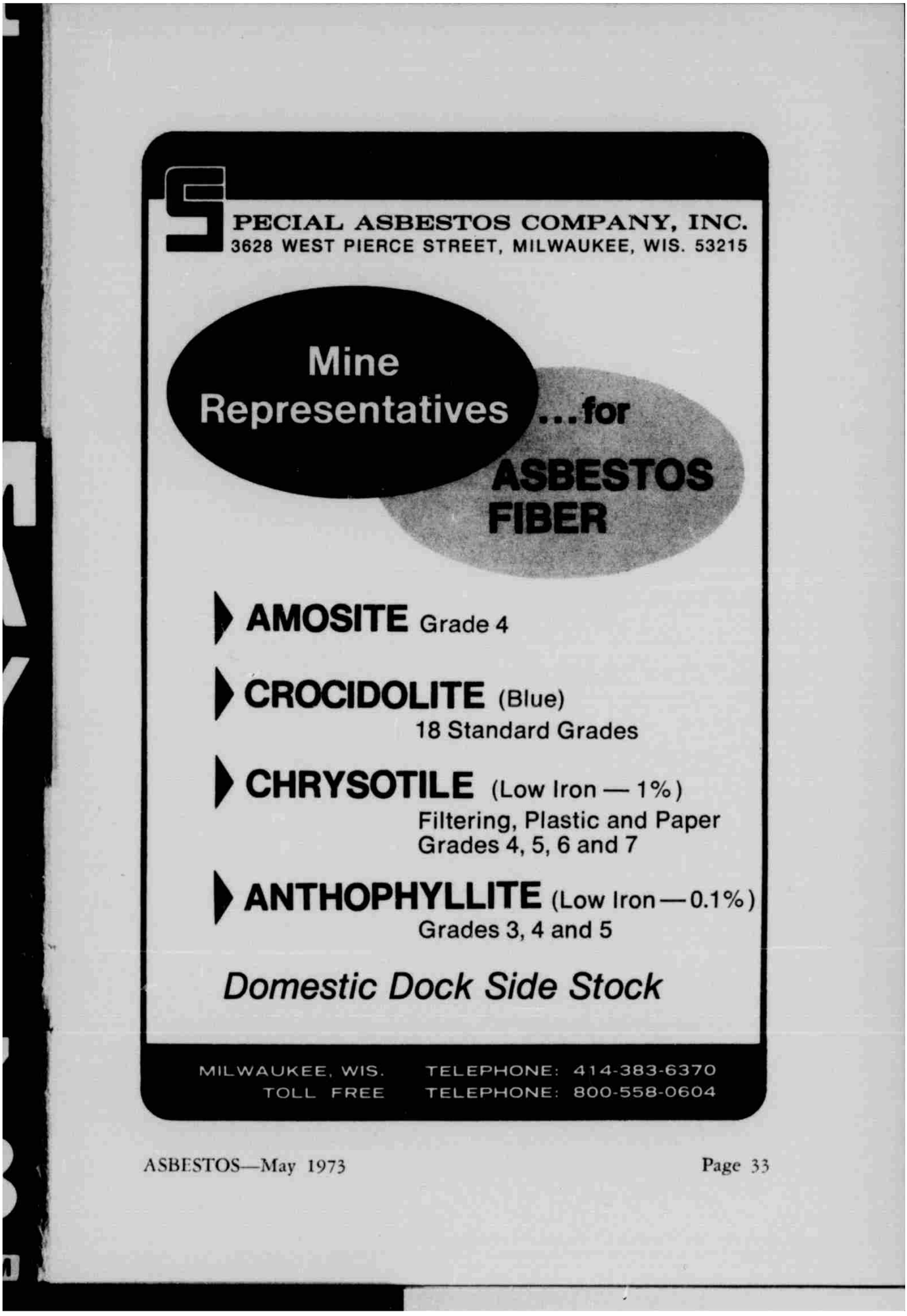
Proven reserves at the mines at year-end were 158,988,000 tons: 39.7 million tons at King-Beaver, 54.8 million tons at British-Canadian, 32.6 million tons at Normandie, 18.2 million tons at Asbestos Hill, and 13.7 million tons at other properties. (The full extent of ore reserves at Asbestos Hill has yet to be determined.) In addition, in the Thetford area there are an estimated 41,951,000 tons of probable ore and 65,920,000 tons of ore which can be classified as possible.

During 1972, the company disposed of its shares of Compagnie Financiere Eternit, S.A.

GARLOCK INC.

For the 12th year in succession, Garlock Inc. achieved record earnings and $100-million in sales were exceeded for the first time. Earnings rose 15% to $4,513,000 and sales of $105,159,000 were 20% over those for 1971. Its overseas sales effort included the total sponsorship of a seminar in Yugoslavia at President Tito's summer palace. Held for the benefit of potential East European customers, it was one of the first trade assemblies ever held by a Western company in that country. Another effort of particular interest is the prod-

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uct display van which tours European factories and industrial sites with qualified Garlock sales engineers who can discuss a customer's problem and a Garlock solution.

Garlock manufactures industrial seals and other engineered components composed of various combinations of rubber, metal, textiles, leather, chemicals and plastic. The Mechanical Rubber Division, from which the entire corporation has grown during the past 86 years, develops and manufactures asbestos textiles, molded rubber parts and seals, braided packings, gasketing, urethane seals and other engineered industrial products. Its sales are the highest of any Garlock division or subsidiary.

The company operates 16 factories in the U.S. and 12 in Belgium, France, England, Mexico, Australia, Japan and Canada. It has a growing independent distributor network in 48 countries with sales in 83 countries. In August, Garlock acquired Service Spring Company, a manufacturer in Indianapolis, Indiana, of replacement leaf springs for trucks.

RAYBESTOS-MANHATTAN, INC.

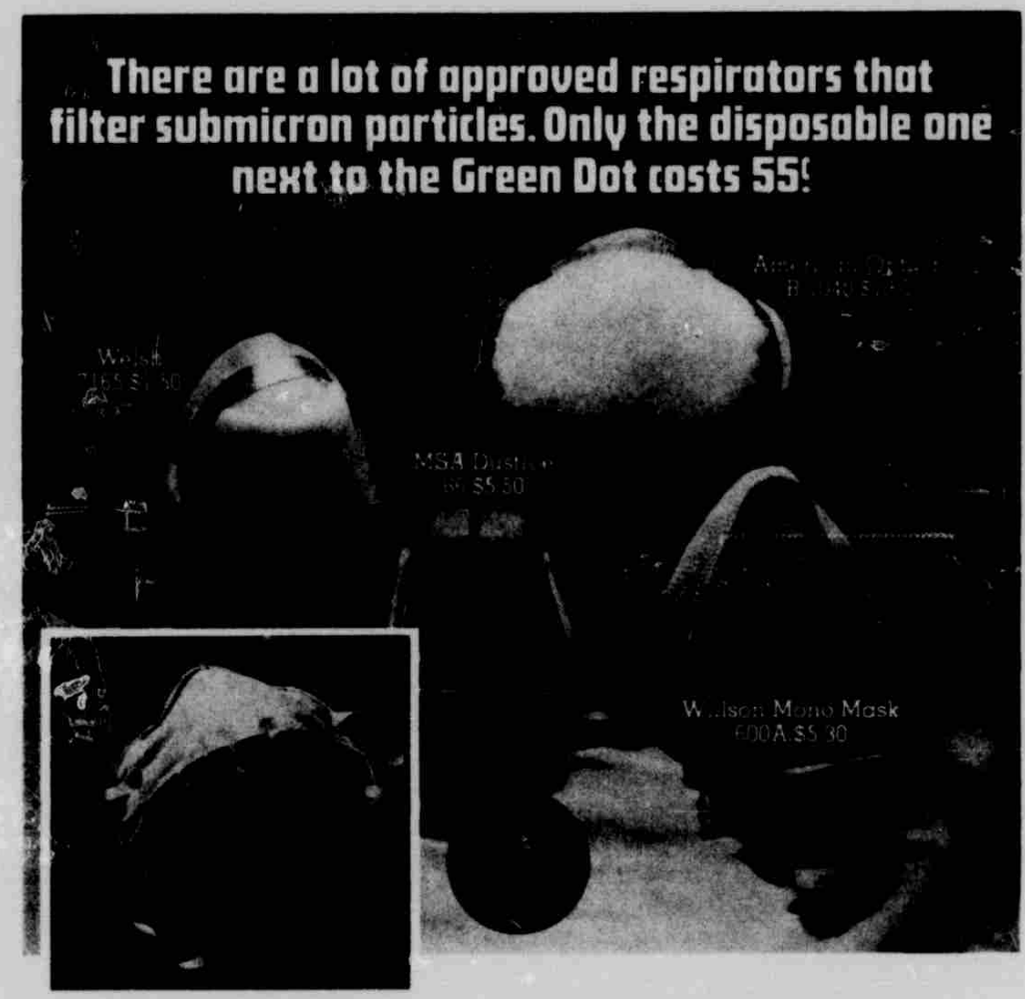
After an extensive series of studies and evaluations of the strengths and capabilities of Raybestos-Manhattan, Inc., and the profitability of its products and markets, decisions were made to implement a planned program to withdraw from unprofitable product lines and concentrate production, marketing and technological resources in the key market areas where the greatest opportunities for future growth were shown to exist. Consequently, 1972 was a year marked by change and progress as foundations for a stronger and more-successful company were established.

In 1972 R/M incurred extraordinary charges before taxes of $9.5-million which included $500,000 related to flood damage at the plant at Manheim, Pennsylvania ,and a $9-million provision for the discontinuance of certain product lines in the U.S. and Canada and the resultant closing of the operation at Passaic, New Jersey. Sales in 1972 of continuing product lines were $152,415,000, a 15.2% increase over restated 1971 sales. Net income was $4,712,000 or $3.48 per share compared with $3,237,000 or $2.39 per share in 1971. Original equipment sales of friction materials accounted for approximately 32.1% of R/M's restated sales volume. Replacement sales of friction products and hydraulic and other brake parts accounted for about 36% of sales. Total engineered asbestos textiles and related products accounted for around 7.2% of restated sales volume.

R/M expresses confidence that its expertise will provide a solid basis for future growth in the seven businesses it has identified as its sphere of activity, i.e., friction materials, engineered textiles, rivets and rivet-setting machinery, rubber-covered rolls, packing and sealing products, reinforced plastics and bowling balls. Under construction are new plants at LaGrange, Georgia, and Scranton, Pennsylvania, plus additions at Crawfordsville, Indiana, and Milford, Connecticut. The plant in Australia became fully operational in 1972.

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There are a lot of approved respirators that filter submicron particles. Only the disposable one next to the Green Dot costs 55¢



Fifty-five cents is hard to believe.

But low price is only one of the great features of the 3M Brand Respirator 8710.

Of course, it's Bureau of Mines approved to protect workers against pneumoconiosis and fibrosis producing dusts.* It's 99% efficient against dust with a mean particle diameter of .4-.6 microns.

Now here's where the big difference starts.

Workers will wear this mask. It weighs ¼ oz. or about the same as an average cigar. That's 1/7th the weight of its nearest competitor.

You can talk in a normal tone. Try that with another mask in this class.

And it restricts vision the least amount of any respirator in its category. Goggles and glasses slip on normally, too.

The 3M Brand Respirator 8710. There are a lot of respirators around in its category. But they cost more, weigh more and are less comfortable.

For more information on this and other 3M Occupational Health and Safety Products write or call:
3M Company, 3M Center, Dept. COT53, Bldg. 517-110, St. Paul, Minnesota 55101.
Occupational Health & Safety Products

3M COMPANY

*Certificate of Approval TC-21C-132 has been granted by the U. S. Bureau of Mines and National Institute for Occupational Safety and Health to the 3M No. 8710 single use air purifying respirator for respiratory protection against pneumoconiosis and fibrosis producing dusts, including but not limited to aluminum, asbestos, coal, flour, iron ore or free silica.

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ASBESTOS STOCK QUOTATIONS

Close—April 17, 1973

Abitibi Asbestos	*$1.90	G&W (pfd 3.87)	55
Advocate Mines	*$1.18	G&W (pfd 5.75)	77¼
Allied Mining	*$3.10	Illinois Central	21⅞
Asarco	19⅝	Ill. Central (pfd A-6)	102⅛
Armstrong Cork	25	Ill. Central (pfd 3.50)	45⅝
Armst Cork (pfd 3.75)	55½	Jim Walter Corporation	25⅛
Asbestos Corporation	*$16.00	Jim Walter (pfd 1.60)	30
Bendix	41½	Jim Walter (pfd 1)	13⅝
Bendix (pfd 3)	64	Johns-Manville	24⅜
Carlisle	22½	Kennecott Copper	28¼
Cassiar Asbestos	*$11.50	Maremont	37¼
Cerro Corporation	15⅛	McAdam Mining	*$.40
Certain-teed Products	18	National Gypsum	15⅛
Charter Consolidated	**227	Pathfinder	*$.56
Conwest	*$6.30	Porter (pfd 5.50)	81½
Flintkote	18⅝	Raybestos-Manhattan	29⅛
F-kote (pfd-A 4.50)	65½	Rio Algom Mines	*$27.625
F-kote (pfd-B 2.25)	33	Royal Industries	8⅛
GAF Corporation	14	Supradur Mfg.	4
GAF (pfd 1.20)	21½	Unarco	9⅝
Garlock	17½	Union Carbide	42⅛
Grace	24⅜	Uniroyal	13¼
Gulf & Western	24	Uniroyal (pfd 8)	104½
G&W (wt)	6⅜	United Asbestos	3-5/16
G&W (pfd 3.50)	102	Woodsreef Mines	*$.73

***Canadian Currency**
****London—in pence**
wt—when traded
Sources: The Wall Street Journal & The Northern Miner

TRADE/INVESTMENT OPPORTUNITIES

France—direct sales and agency agreements concerning asbestos textiles for curtains and draperies sought by manufacturer-importer. [Cholleton, S.A., 7 Rue Carves, 92120 Montrouge]

Germany—importer-agent-distributor wants asbestos fibers via direct purchases or agency agreements. [Christensen, Schwartz & Co., Karlstrasse 21, 2 Hamburg 76]

Spain—agent has need for vinyl-asbestos floor tile. [Picosa, Ledesma Ramos 11, Bilbao 14]

Sweden—gaskets of all types sought by importer-agent-distributor. [Henry Wallenberg & Co. AB, Box 7026, S-103 81 Stockholm]

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Whitecap goes to great lengths to deliver clean air.



Clean, cool air.

A man needs it when the atmosphere is thick enough to cut.

So the tether model of Whitecap by 3M Company gives a worker four times the clean air he needs wherever he goes. It can even heat and cool.

That sounds complicated, but it's not. Whitecap's air supply comes directly from an in-plant compressor to a belt mounted valve. A worker controls his own heating and cooling from a Vortemp™ Unit that also hooks to his belt.

But Whitecap is not limited to supplying compressor air for jobs like grain loading. It can be worn in the field or in a factory because it also has its own centrifugal air cleaner and filters available. The small, easy-to-use unit mounts right to a vehicle.

And for those other special jobs requiring total mobility, there's the Whitecapsul II. A completely portable, lightweight, powered-air purifying respirator.

All the Whitecap models are Bureau of Mines approved. The filtering systems remove contaminants down to 0.3 microns. And all the helmets meet hardhat specifications.

Whitecap by 3M Company. It can be adapted to almost any industry because it goes to great lengths to deliver clean air.

For more information on this and other 3M Occupational Health & Safety Products write or call:
3M Company, 3M Center, Dept. OPI-53, Bldg. 517-110, St. Paul, Minnesota 55101.

Occupational Health & Safety Products 3M

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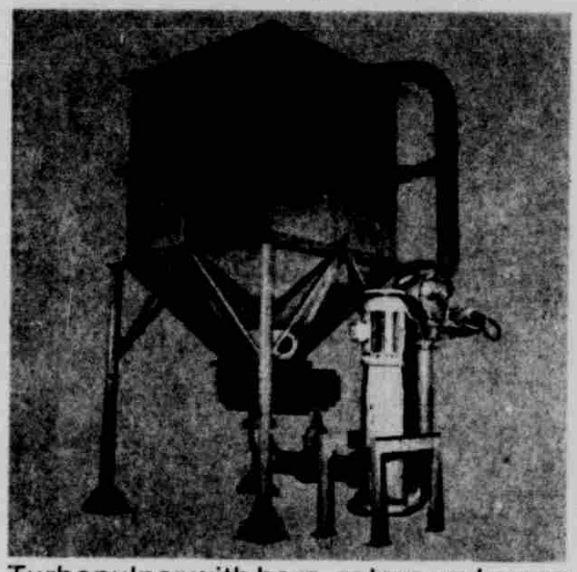
Choose performance and efficiency



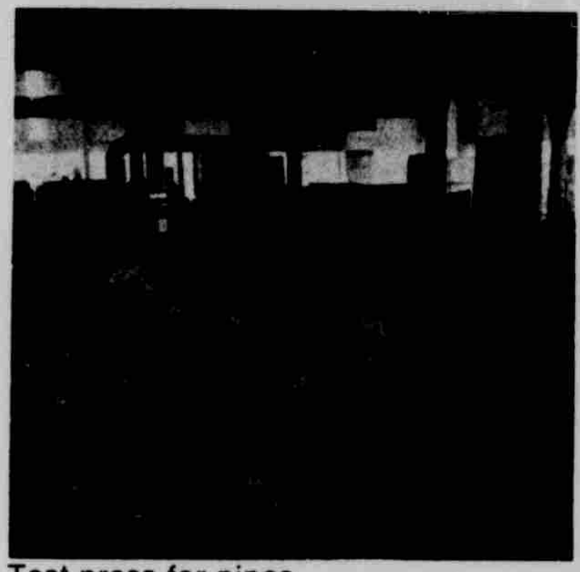
Hydraulic lathe for pipe couplings



Sheet cutting press 3,6×1,3 m / 12′×4′



Turbopulper with horz.-rotors and pump



Test press for pipes

What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!

Choose WEHRHAHN!

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BIRTHDAY GREETINGS to . . .

Alexander Kuzmuk, President, Mechanical Rubber Division, Garlock Inc., Palmyra, New York, June 11.

Ernest C. Bratt, Group General Manager-Asbestos, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, June 12.

Juliette M. Moran, Senior Vice President, GAF Corporation, New York City, June 12.

G. S. Sutcliffe, Deputy Chairman & Joint Managing Director, Turner & Newall Ltd., Manchester, Lancashire, England, June 12.

Staton J. Peele, Jr., Manager of Industrial Textiles Marketing, Uniroyal Fiber & Textile, Winnsboro, South Carolina, June 13.

A. H. Bagenstose, Vice President-Sales, Carey-Canadian Mines Ltd., Dorval, Quebec, June 14.

A. C. Caron, General Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, June 14.

John J. Finnegan, Vice President-Manufacturing, Nicolet Industries, Inc., Ambler, Pennsylvania, June 14.

G. R. Smith, Purchasing Agent, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 14.

John B. Jobe, Executive Vice President, Johns-Manville Corporation, Denver, Colorado, June 16.

D. H. Pillinger, Managing Director, Mintex Ltd. & Cresswell's Asbestos Company Ltd., subsidiaries of BBA Group Ltd., Cleckheaton, Yorkshire, England, June 16.

James F. Maclachlan, Secretary & Controller, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, June 19.

Donald J. Camille, Vice President-International Group, Garlock Inc., Rochester, New York, June 20.

Erwin C. Gutzwiller, Corporate Director of Industrial Engineering, GAF Corporation, New York City, June 20.

W. Richard Goodwin, President & Chief Executive Officer, Johns-Manville Corporation, Denver, Colorado, June 21.

Michael Prus, President & Chief Operating Officer, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, June 21.

Frederick S. Daly, Vice President-Manfacturing, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, June 22.

Jack H. Stelling, Controller, Asbestos Corporation of America, Garwood, New Jersey, June 22.

John W. Weber, Chairman of the Board & Chief Executive Officer, Amatex Corporation, Norristown, Pennsylvania, June 22.

C. Branton Wheatley, President & Treasurer, Pacor Inc., Philadelphia, Pennsylvania, June 22.

A. S. Johnson, Vice President-Sales, Asbestos Corporation Ltd., Thetford Mines, Quebec, June 23.

Malcolm Meyer, Chairman & Chief Executive, Certain-teed Products Corporation, Valley Forge, Pennsylvania, June 23.

Marcel Dorais, President & General Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 25.

S. M. Dougherty, Managing Director, Cape Asbestos Fibres Ltd.,

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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

Naturally we want to control the quality and uniformity of the many grades of asbestos we produce. So to meet exact customer requirements, we use sophisticated equipment as seen in this Thetford Control Center.

It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P. Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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Uxbridge, Middlesex, England, June 25.
D. R. Hudgeon, Mine Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, June 25.
F. Pearson, Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, June 26.
Gordon Taylor, Executive Director, The Flintkote Company Ltd., London, England, June 26.
L. J. Faneuf, Director of Manufacturing, GAF Corporation, New York City, June 27.
J. W. McCarvill, Vice President-Administration, Asbestos Corporation Ltd., Thetford Mines, Quebec, June 27.
Louis B. Stocks, Director of Marketing, Industrial Products Division, GAF Corporation, New York City, June 27.
M. F. Howe, Managing Director, Turners Asbestos Fibres Ltd., Manchester, Lancashire, England, June 28.
Robert A. Carlson, Vice President, Special Asbestos Company, Inc., Milwaukee, Wisconsin, June 30.
G. F. A. Brink, Manager, Product Research & Development Department, Asbestos Corporation Ltd., Thetford Mines, Quebec, July 2.
I. C. Campbell, Vice President & Secretary-Treasurer, Asbestos Corporation Ltd., Thetford Mines, Quebec, July 3.
D. Lloyd Monroe, Mine Project Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, July 3.

NTIS/SSIE SEARCH SERVICE

Reports on 400,000 Government research projects are publicly available from one source through a new cooperative computer search service sponsored by the National Technical Information Service (NTIS) and the Smithsonian Science Information Exchange (SSIE). A single search will provide research abstracts from the information files of both agencies. The search package is priced at $85.00 for the first 125 abstracts plus 25c for each abstract over the initial 125. Users of the NTIS/SSIE Search Service will receive computer printouts which summarize activity in their particular fields of interest. For further information, contact NTIS, Springfield, Virginia 22151.

NBS R&D FACILITIES

"Research and Testing Facilities of the Engineering Mechanics Section, National Bureau of Standards, Washington, D.C." describes briefly the operating characteristics and features of the various pieces of available testing equipment. The purpose of the literature is to serve as a guide to the Section's capabilities for the scientists and engineers who have occasion to use them. [Order from Superintendent of Documents, Washington, D.C. 20402; SD Catalog C13.10:370; Stock No. 0303-01057; 23 pages; 55c]

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High costs for asbestos?
Pollution?
Asbestosis from crocidolite
or amosite?

No more with

"Wet process Ispra" ®

Asbestos milling for sheets
and pipes plants

ispra s.p.a.
paderno dugnano - milano (italy)
telex 32688

MEN ON THE MOVE

CASSIAR ASBESTOS CORPORATION LTD.

Peter Steen was elected a Director of Cassiar Asbestos and was subsequently appointed to the position of Executive Vice President. Mr. Steen had been Chief Mining Engineer for Anglo American Corporation of Canada Ltd. and General Manager of Whitehorse Copper Mines Ltd.

C-E BAUER

T. G. Phillips assumed the post of Vice President-Industrial Machinery Sales for The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc. Mr. Phillips joined C-E Bauer in 1962 as Director of the Industrial Demonstration Laboratory at Brantford, Ontario, became Sales Manager of the Canadian Industrial Machinery Division in 1966, was transferred to company headquarters at Springfield, Ohio, in 1969 as Manager, Coolant Clarification Equipment Sales, and was appointed Manager of U.S. Industrial Machinery Sales in 1971. The Industrial Division of C-E Bauer manufactures equipment and systems for pollution control and waste water treatment.

THE FLINTKOTE COMPANY

Gene G. Curry was elected as Vice President-Administration and a Director of Flintkote, a building products manufacturer.

JOHNS-MANVILLE CORPORATION

E. G. Willcox, formerly Merchandise Manager for the Pipe Division, is now Operations Manager, Environmental Control Department. . . . New Special Representatives for the Asbestos Fibre Division include *Richard A. Cree* (in the Chicago, Illinois, area) and *Steven Kuhn*. Both of these gentlemen will be involved with J-M's expanded asbestos paving sales program.

RAYBESTOS-MANHATTAN, INC.

Ronald R. Moalli was elected by the Board of Directors as President of Raybestos-Manhattan International, Inc., a subsidiary of R/M. He joined R/M in 1953 and formerly was General Manager of the subsidiary. He is a member of many trade associations and is Chairman of the Data Book and Technical Committee and a member of the Brake Performance Committee of the Friction Materials Standards Institute. . . . *Robert B. Park* is Sales Manager of R/M's recently-formed Packing Sales Division. Previously Sales Manager for the Rubber & Packing Replacement Division of R/M, he will be responsible for the national sales force comprised of specialists in the original equipment and the replacement markets. *H. Dean Ancell* was named as his Administrative Assistant.

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ASBESTOS

Kilborn-engineered asbestos projects in Canada, U.S.A., South America and Europe produce a total fibre output of 365,000 tons per year.

Kilborn services include marketing surveys, process and operating assistance, engineering and construction management for new plants and expansion programs.

KILBORN ENGINEERING LTD.
36 Park Lawn Road, Toronto, Canada

KILBORN ENGINEERING (B.C.) LTD.
1199 West Pender Street, Vancouver, Canada

KILBORN ENGINEERING PACIFIC PTY. LTD.
201-18 Berry Street, Sydney 2060, Australia

KILBORN

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BOOKLETS/CATALOGS/BOOKS

Asbestos In Canada 1972—bilingual (English and French) booklet on the state of the Canadian asbestos industry; shipments of Canadian asbestos have resumed their upward trend and current estimates by individual producers set the anticipated growth of world demand at between two and three per cent annually; also discusses markets and trade, asbestos applications, asbestos products manufacturing, Canadian and world developments, environmental health and the future. [Quebec Asbestos Mining Association, 580 Grande Allee East, Quebec 4, Quebec]

ASTM Literature—the *1972-1973 List of ASTM Publications*, revised annually, contains thirty pages and lists more than 600 ASTM publications dealing with the standardization of methods of test and specifications for materials, the knowledge of materials and materials evaluation (free). . . . *Testing For Prediction of Material Performance in Structures and Components* includes fifteen predictive testing papers covering a spectrum which ranges from theoretical considerations of empirical strength through actual demonstrations of late developments in detection of flaws to achievement of reliability by a well-designed testing program (STP 515, Publication Code 04-515000-23, 313 pages, hard cover, $28.50). . . . *1972 ASTM Standards in Building Codes* lists those ASTM Standards that are referenced in building codes of states, cities and municipalities as well as national model codes (Publication Code 03-000972-10, 1541 pages, 297 standards, soft cover, $25.50). [Available through ASBESTOS or from the American Society for Testing and Materials, Philadelphia]

Pollution Control In The Textile Industry 1972—according to H. R. Jones, the author, the major pollution problems confronted by the textile industry are concerned with water pollution; this book presents solutions based on various government surveys and reports with practical examples detailed from late U.S. patents. [324 pages, hard cover, $36.00; available through ASBESTOS or from Noyes Data Corporation, Park Ridge, New Jersey]

Journal Of Research Of The U.S. Geological Survey—an evolutionary advance in the publications program of the USGS; is an outgrowth of the thirteen-year series of Geological Survey professional papers entitled "Geological Survey Research"; will contain papers on various subjects in geology, hydrology, topography and related earth sciences; an annual subject index will be provided to aid readers in finding papers on specific areas or subjects. [Six issues per year beginning January 1973; $8.50 per year, plus $2.25 additional for foreign mailing; order direct from Superintendent of Documents, Washington, D.C. 20402]

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FLINTKOTE ASBESTOS



Take it from our very best customer

That's us. The Flintkote Company. We recommend it to you too. After all, we use Flintkote asbestos in many Flintkote products. Like floor tile; roofing shingles; felts and building papers; industrial coatings; and pipe.

Flintkote asbestos makes lots of things better. Perhaps *your* products. Asbestos is inert, fireproof, non-oxidizing, moisture-proof, bug-proof. And inexpensive. Flintkote can meet and control production to exacting specifications.

Flintkote offers you the finest in a wide variety of Chrysotile Asbestos Fibers and the know-how to help you choose the best for your purpose. Call on Flintkote now for fast service.

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FLINTKOTE MINES LIMITED
P.O. BOX 159
THETFORD MINES, QUÉ.
CANADA

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.

Canadian 918,876—in the production of improved friction articles, a dry mixture of filler including at least 5% by weight of asbestos bonded by a thermosetting resin is placed in a die and pressed in two stages, first to remove entrapped air and then sufficiently to attain desired density; the compacted article is removed from the die and subjected to an appropriate time temperature curing cycle; A. M. Griffith & R. H. Gilbert; assigned to Abex Corporation, January 16, 1973; 10 pages.

Canadian 919,830—a dispersion of asbestos for use in polymer composites is formed by contacting Chrysotile fiber with water in the presence of dioctyl sodium sulfosuccinate and blending the resulting dispersion with a monomer emulsion or a monomer which is gaseous at room temperature; D. G. H. Ballard, J. C. Padget & R. C. Roberts; assigned to Imperial Chemical Industries Ltd., January 23, 1973; 9 pages.

Canadian 922,324—a fibrous refractory composition for hot topping or like applications comprises preferably about 35 parts by weight of aluminum silicate fiber, 25 parts of diatomite, 15 parts each of Amosite asbestos and pulped newsprint and 10 parts of mineral wool; E. J. Jago & R. R. Dzurilla; assigned to Foseco International Ltd., March 6, 1973; 10 pages.

U.S. 3,712,469—apparatus for the high-speed sorting of size classified pieces of broken Crocidolite or Chrysotile asbestos ore into fiber-rich and fiber-poor fractions on the basis of a detectable parameter, such as magnetic permeability, dielectric constant or intensity and wave-length of differential infra-red radiation emitted upon brief submission to a heat flux; F. B. Dwyer, R. L. Thompson & E. Wulff; assigned to The Colonial Sugar Refining Company Ltd., January 23, 1973; 13 pages.

U.S. 3,714,041—ethylene glycol, hydrocarbon oils, alkyd or epoxy resins or like organic liquids are effectively thickened with a synergistic mixture of (1) pyrogenic silica and/or silica aerogel, and (2) Chrysotile asbestos of an average primary fiber diameter of less than about 1 micron; A. Asgeirsson; assigned to Cabot Corporation, January 30, 1973; 4 pages.

U.S. 3,715,230—to increase the filtration rate of slurries in which it is used, Chrysotile asbestos is pre-coated with alkali metal silicate solids and the pre-coated fibers are then further coated with a film or a sodium salt of condensed naphthalene sulfonic acid which acts as a non-foaming anionic sulfonated dispersant; T. H. Sadler; assigned to Johns-Manville Corporation, February 6, 1973; 6 pages.

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ASK US TO PROVE IT.

Albany's pacesetter felts help you make more profit.

SHEET MACHINES:

Specially tailored Albany Felts control drainage better and can be designed to provide any required finish. Production is increased. And they last longer.

100% Synthetic Needled Asbestos Cement Felts of the latest Albany-design work better, longer, and more profitably for you. Ask your Albany Felt Representative to prove it.

ALBANY FELT COMPANY OF CANADA LIMITED

CALENDAR OF EVENTS

POLYMER CONFERENCE SERIES—Division of Materials/Science and Engineering, College of Engineering, University of Utah, Salt Lake City, Utah, *June 4-July 20.*

ASBESTOS TEXTILE INSTITUTE—General Meeting; Key Bridge Marriott, Arlington, Virginia, *June 6-7.*

CONSTRUCTION SPECIFICATIONS INSTITUTE—17th Annual Convention; Sheraton Park Hotel, Washington, D.C., *June 25-27.*

CONSTRUCTION PRODUCTS SALES REPRESENTATIVES INSTITUTE —Sponsored by The Producers' Council; Syracuse University, Syracuse, New York, *June 26-29.*

SYMPOMECH 73—Third International Symposium and Exhibition of Mini-Mechanization in Construction; Zilina, Czechoslovakia, *June 30-July 6.*

SAMPLING IN THE MINERAL AND METALLURGICAL PROCESSING INDUSTRIES—Institution of Mining and Metallurgy; Imperial College, London, England, *July 2.*

SCANNING ELECTRON MICROSCOPY SYSTEMS AND APPLICATIONS CONFERENCE—Electron Microscopy and Analysis Group, Institute of Physics; University of Newcastle, Newcastle-on-Tyne, England, *July 3-5.*

OSAKA INTERNATIONAL TRADE FAIR—12th Industrial and Engineering Materials Exhibition, sponsored by Industrial Daily News; Minato Fair Grounds, Osaka, Japan, *July 8-12.*

POWER, PROCESSING AND INDUSTRIAL WATER PURIFICATION— U.S. Trade Mission/Seminar to Brazil and Argentina, *July 8-22.*

UNIVERSITY OF WISCONSIN-EXTENSION—Courses scheduled at the Madison campus unless otherwise noted: Vibration Measurement and Control in Product Design, *July 9-13*; Forming and Fabrication of Materials (Milwaukee), *July 9-13*; Integrated Circuit Fabrication Laboratory, *July 9-20*; Probabilistic Approaches to Design (Milwaukee) *July 16-20*; Introduction to Digital Logic, *July 16-20*; Minicomputer Control of Machines and Processes, *July 16-20.*

AUTOMATION CONTROL IN MINING, MINERAL AND METAL PROCESSING—International Symposium; University of New South Wales, Sydney, Australia, *August 13-17.*

PROSPECTING IN AREAS OF GLACIAL TERRAIN—Meeting between the Institution of Mining and Metallurgy, the Geological Survey of Norway and the Norwegian Ore Geological Symposium; Trondheim, Norway, *August 21-22.*

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If we stick our hands into your business

. . . we may be able to improve your asbestos fibre handling, conveying, processing, or safety.

Our Mining and Milling Departments specialize in all aspects of asbestos. They helped develop and refine many of today's techniques of processing asbestos fibre. They also assisted in the design of equipment for modern processing.

Our asbestos experts are always ready to share their know-how with you. Write or call Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Or get in touch with the sales representative in your area.

SALES REPRESENTATIVES

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CALIFORNIA
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Jensen-Souders Assoc., Inc.—Chicago
MICHIGAN
Baker & Collinson, Inc.—Detroit
NEW ENGLAND
D. H. Litter Co., Inc.
Ballardvale, Mass.
NEW YORK
D. H. Litter Co., Inc.—New York
OHIO
The A. C. Mueller Co.—Cleveland
PENNSYLVANIA
Van Horn, Metz & Co., Inc.—Conshohocken
CANADA
Federated Genco Ltd.—Montreal
CANADA
Federated Genco Ltd.—Toronto
COLOMBIA
Holanda Colombia, S.A.—Bogota
MEXICO
Asarco Mexicana, S.A.—Mexico City

ASARCO

LAKE ASBESTOS OF QUEBEC, LTD.

a subsidiary of American Smelting and Refining Company

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Remember When?

(May 1923 ASBESTOS)

New Advertiser—Cyprus Asbestos Co., Ltd.

A dissertation on the manufacture and application of prepared rag felt roofing materials, written by H. C. Werner of Johns-Manville's Philadelphia Office, formed the lead article of this issue.

On the "Contractors and Distributors Page" appeared a study of prevailing wage rates for insulation and asbestos mechanics in various cities of the U.S.A. The lowest rate of $.80 per hour was effective in Milwaukee, Wisconsin; Richmond, Virginia; and St. Paul, Minnesota. Highest rate of $1.12½ per hour was effective in New York City; Columbia, South Carolina; and Pittsburgh, Pennsylvania (How times have changed!).

March 1923 production of automotive vehicles set a new, all-time record of 318,424 passenger cars and 34,593 trucks.

The Chamber of Commerce of the U.S.A. reported expenditures on scientific research by manufacturers and others of about $70-million annually. Return on this investment was estimated at $500-million per year.

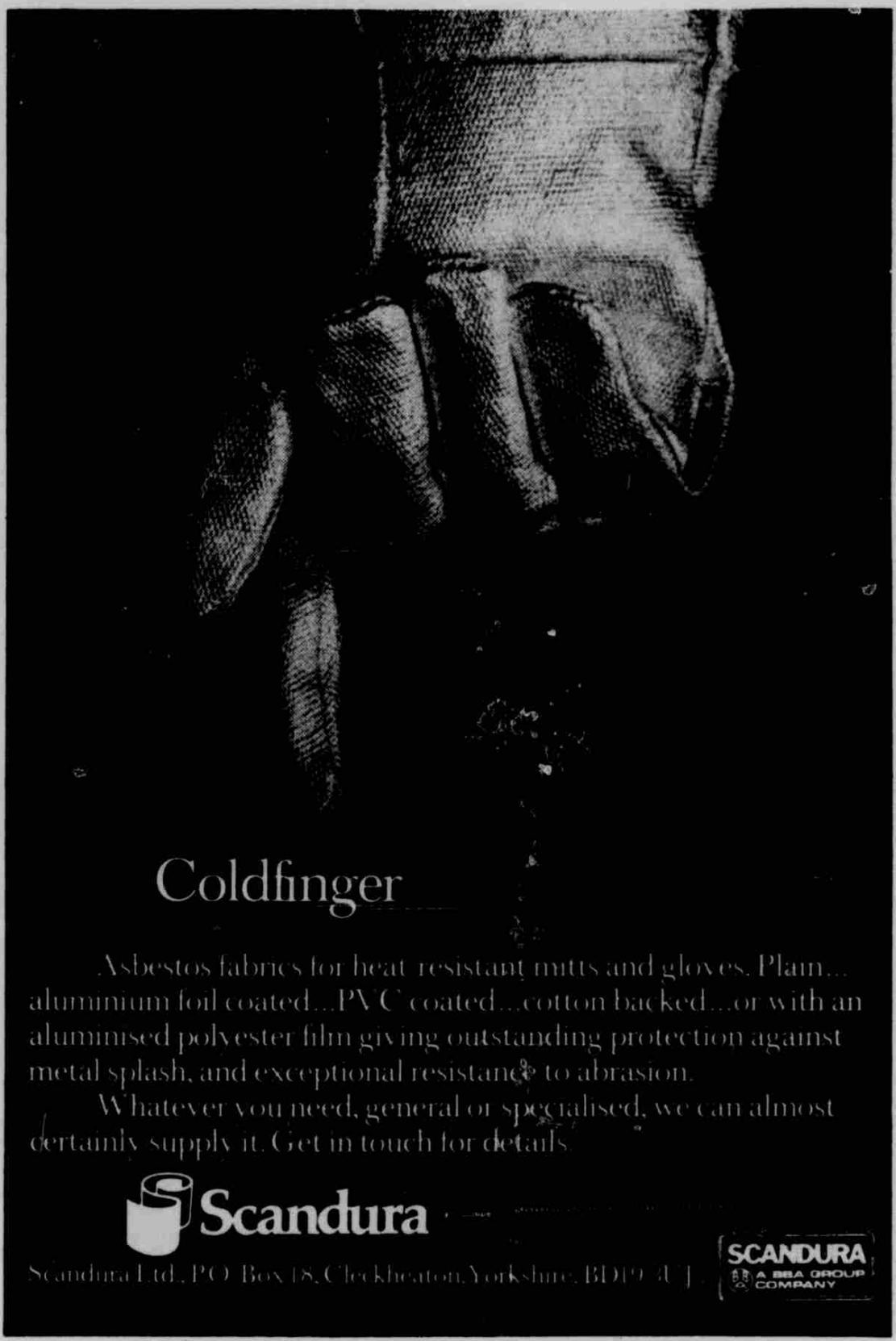
A short but violent labor dispute resulted in the closing of the King and Beaver Mines of Asbestos Corporation of Canada through the last week in April 1923. Work was halted on April 23rd and resumed on April 30th. Part of the dispute involved a construction superintendent in charge of erection of a new $500,000 mill at Thetford Mines, Quebec.

Blow torch tests on the asbestos built-up roof covering the new Yankee Stadium in New York indicated the roof would be unaffected by temperatures as high as 1500°F. Area of the roof was 110,000 square feet.

It Was There in 1923!

An avid reader noted an item in the "Remember When?" section of the February 1973 issue concerning Asbestos City, located north of Waukegan, Illinois. John A. Bettes, Jr., had covered the Chicago sales territory for Southern Asbestos Company from 1929 through 1939 and had never heard of Asbestos City. He checked with William S. Hough who was in the business during those same years with Johns-Manville. He never heard of the town. To satisfy an unending curiosity, Jack Bettes wrote to the Postmaster at Waukegan asking the fate of the "mystery city." Upon checking Courthouse records, Postmaster E. A. Hintzen discovered that Asbestos City was never incorporated but was absorbed by Waukegan.

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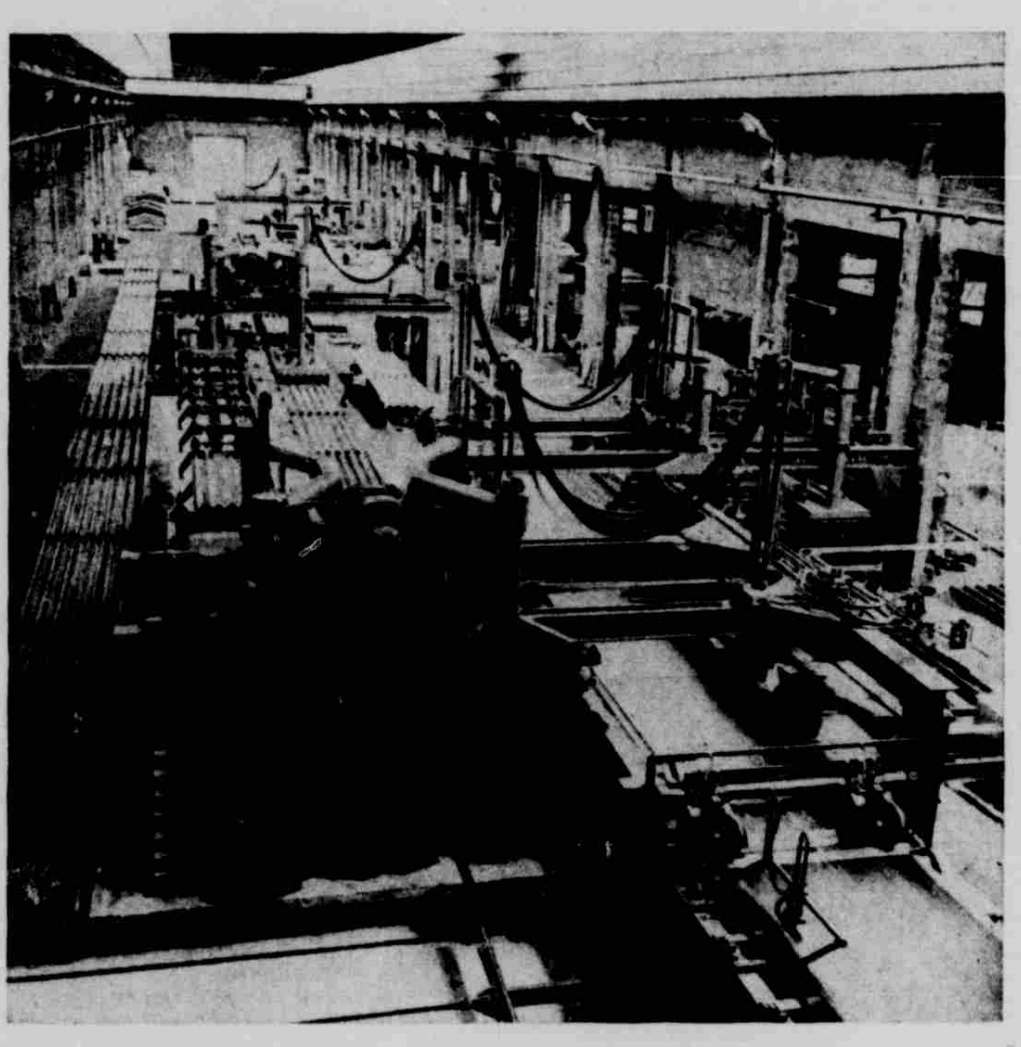
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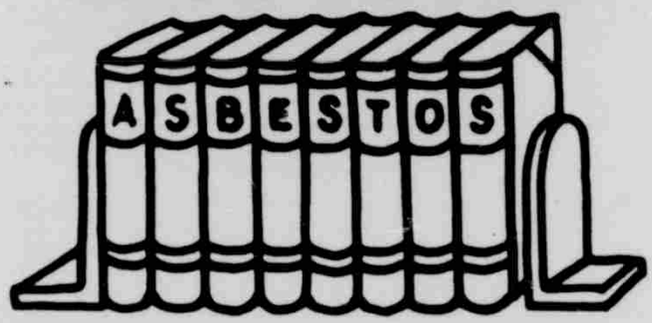
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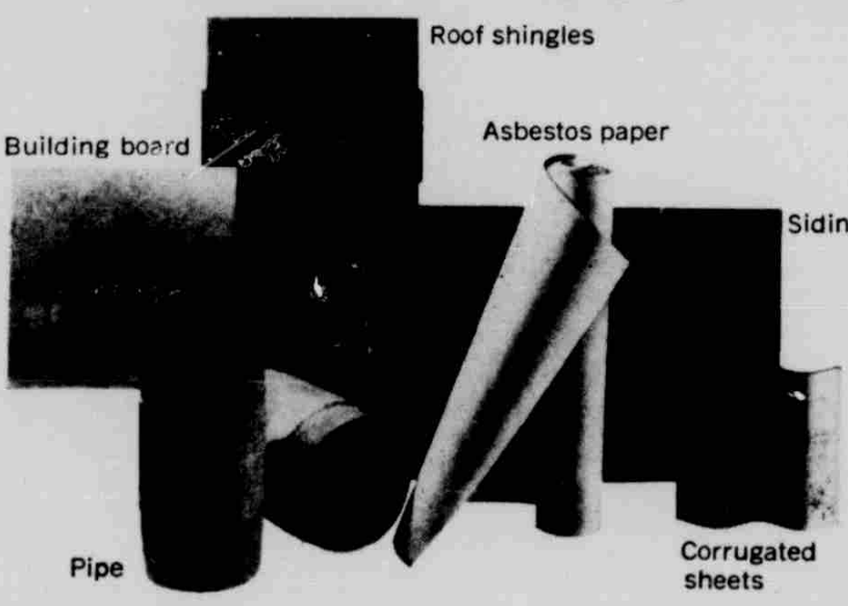
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