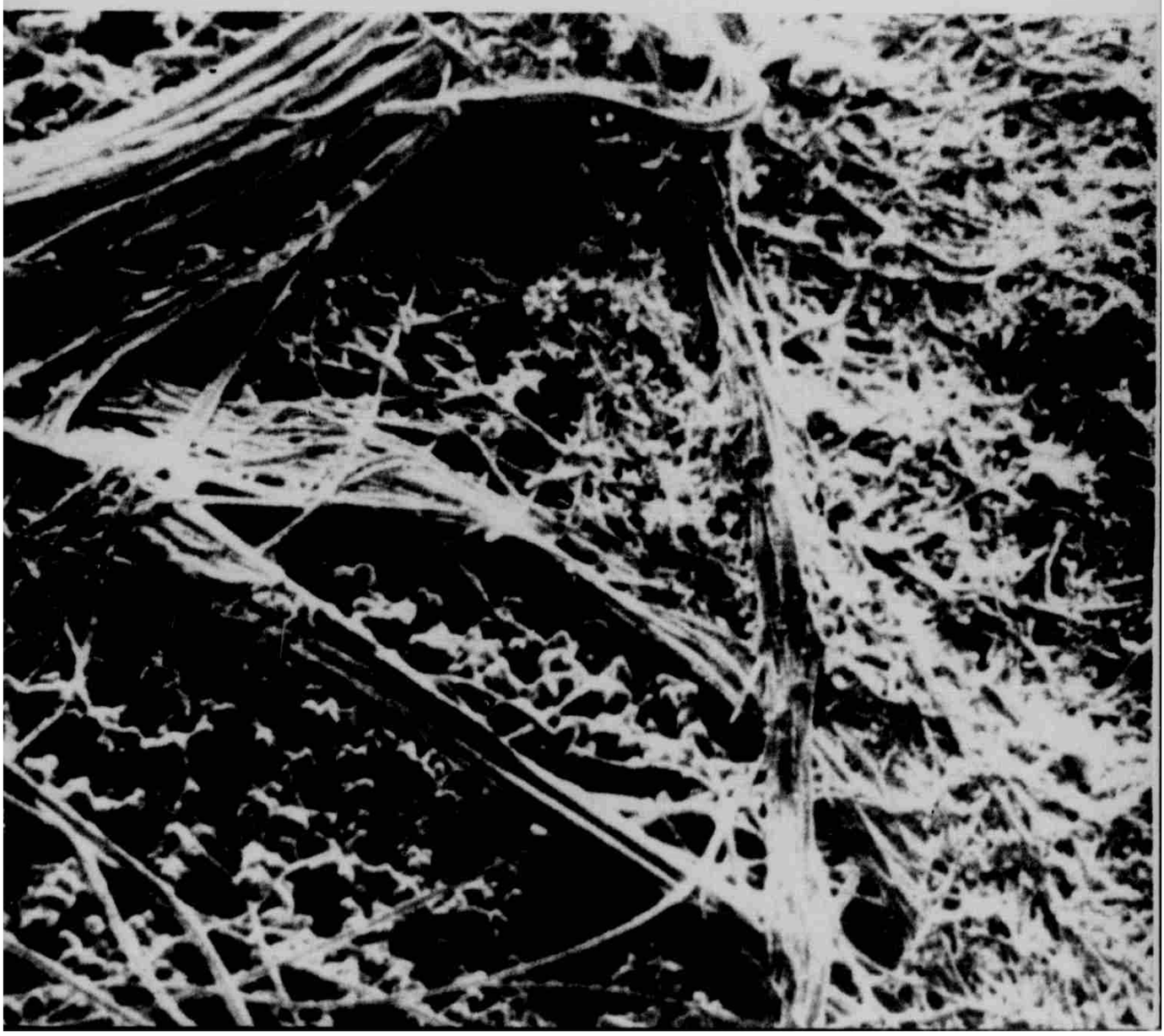
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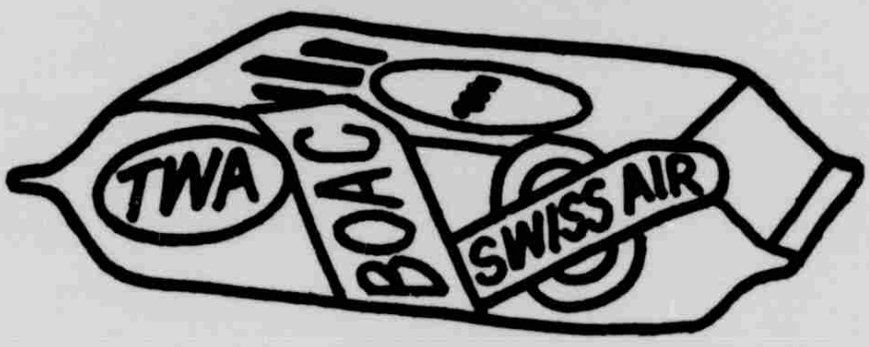
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ASBESTOS

VOLUME 54 APRIL 1973 NUMBER 10

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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THE SNYDER PROCESS

A BREAKTHROUGH IN COMMINUTION

[Based on a paper of the same title presented at the 1972 Mining Convention of the American Mining Congress, San Francisco, California, by William J. Cavanaugh, Manager, Minerals Process Division, Lone Star Industries, Inc., Brookfield, Connecticut 06804.]

The Snyder Process of materials shattering and mineral liberation is the result of some fifteen years of research and development work by Francis H. Snyder, with technical and financial assistance in recent years by Lone Star Industries, Inc. The process utilizes a variety of shock phenomena to shatter and tear apart solid materials such as mineral ores, asbestos, rock, sand and abrasive materials.

The cardinal principle of Snyder Processing is to take advantage of the fact that ores and other solid substances are weaker in tension than in compression and to cause them to fracture through tension at their internal grain boundries or crystalline interfaces. This is much more efficient than conventional milling which must overcome the material's relatively higher compressive strength by use of various compressive grinding methods. It also offers a major metallurgical advantage in that it provides superior liberation of minerals in their natural particle size because cleavage by tension at the crystalline interface minimizes overgrinding.

THE COVER

Scanning electron micrograph, at approximately 2500X magnification, of Chrysotile fiber, similar to Grade 7H-2, recovered from the coarse rejects at an operating plant in Canada, released via Snyder Process shattering and collected by a wet fiber recovery system. The sample photographed was a -200 mesh elutriator fraction. The picture illustrates the fibrous nature of the fine material liberated by the Snyder Process. In general, the fiber is well-opened and free of rock debris.

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Basically, in the Snyder Process, the material to be processed is loaded into a chamber. (Present test equipment will handle a maximum feed size of 2-1/2" and equipment to handle 6" feed material is now in the design stage.) The process then begins with the fluidization or spouting of this bed of solid particles with a compressible working fluid such as steam at medium pressure. This is a crucial step as it forms a two-phase fluid. Flow from the chamber is initiated by opening a special quick-acting valve in a discharge duct. As this valve is opened, in less than fifteen milliseconds, the compressible working fluid begins to expand through the duct, entraining the previously fluidized particles. This complex, two-phase fluid is accelerated through the duct to near-sonic velocities and is discharged into a chamber which collects the comminuted material.

Experimentally it has been found advantageous to have two ducts discharging into the collecting chamber from opposite sides so the streams impact on each other, thus minimizing wear on the chamber walls and utilizing the last remaining energy of the working fluid. For commercial installations it is proposed to use multiple pairs of guns positioned radially around a single collecting chamber.

As the two-phase fluid accelerates through the discharge duct, there is an efficient transfer of kinetic energy from the compressible working fluid to the entrained particles which are subjected to many complex shock phenomena. While some of these phenomena have been rather well defined, research is continuing in an attempt to fully define the mechanisms of comminution in the system. Suffice it to say that, regardless of the specific mechanisms at work, the resulting products have exhibited characteristics not attainable by conventional processing means.

In 1970 a prototype apparatus for Snyder Processing materials at a rate of ten tons per hour was constructed and has since been used to determine the effectiveness of the process on many different ores and other substances. Of particular interest is the work that has been done on asbestos ore and tailings with very promising results.

The following figures were included in the original paper

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High costs for asbestos?
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and show one operator's typical ore and tailings assays based on a core mill product compared with the recoveries achieved when using the Snyder Process and wet recovery of the fiber.

TABLE I

	Value (Canadian $)		Yield (%)	
	Core Mill	Snyder Process	Core Mill	Snyder Process
(+) ¼" Tails	$ .25	$ 4.38	.207	7.69
(—) ¼" Tails	.58	1.73	.503	3.23
(—) ⅛" Tails	1.46	4.37	1.353	8.17
Dryer Rejects	.66	4.24	.394	7.44
Dryer Fines	12.09	23.33	5.563	13.41

In addition to these figures which show the superior recoveries attained by the Snyder Process, studies of the product reveal other characteristics which are of considerable interest and value.

Fiber from this process is much more fully open, has a greater surface area and is free of rock, grit and spicular material. It has a high -200 mesh Bauer McNett fraction but is relatively low in -65 mesh when dry-screened on a Rotap indicating that the fines are, in fact, fiber. Scanning electron micrographs at about 2500X magnification confirm that the fibers are more highly opened and fewer unopened fiber bundles are present than in conventionally processed fiber and a large portion of the -200 mesh fraction is fibrous where, in the conventional product, this fraction is largely rock debris.

It is well known that tailings can be ground in a wet circuit to yield a reasonably well-opened clean fiber but such milling always degrades the fiber and the yield falls well short of that obtainable by Snyder Processing. To determine whether Snyder Processing actually degrades the fiber test runs have been made on concentrates of fiber only. The next Table compares the properties of 7M-2 fiber "as received" with the same properties after Snyder Processing only and after Snyder Processing and wet recovery.

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TABLE II

	7M-2 Fiber	7M-2 Fiber After Snyder Process	7M-2 Fiber After Snyder Process & Wet Recovery
Standard 116—1 min., 50 sec.			
½ inch	—	—	—
4 mesh	—	—	—
10 mesh	2.1	4.0	10.8
35 mesh	9.6	9.0	4.8
Pan	4.3	3.0	0.4
Rotap Gms/Min.	100/30	100/30	100/10
6 mesh	0.0	0.0	0.3
14 mesh	4.0	6.4	31.0
20 mesh	10.3	16.5	35.2
28 mesh	19.6	28.3	18.6
35 mesh	16.1	11.4	10.7
65 mesh	13.0	8.8	0.8
−65 mesh	37.0	28.6	3.4

These figures clearly indicate that Snyder Processing has actually upgraded the fiber rather than degraded it.

While the most impressive data in favor of the Snyder Process are those obtained using wet recovery which, in itself, tends to improve the yield of the higher grade fibers, it should be borne in mind that the apparatus used in the Snyder Process forms a dust-free, closed-circuit system particularly adaptable to wet recovery as opposed to conventional systems where both dust control and wet recovery require add-ons which increase both the capital investment and cost of processing.

In summary, the Snyder Process would seem to offer a number of specific advantages over conventional comminution systems. The metallurgical benefits for one material, asbestos, are outlined herein. The capital cost is relatively low since the equipment is light in weight, is easily fabricated, requires no heavy foundations and occupies some 20% less floor space than conventional equipment. Operating costs are low due to the small number of moving parts, the design of the equipment to minimize metal wear and the preferred use of relatively low cost steam as the compressible working fluid.

For more complete information on the recovery of asbestos fiber, interested parties may direct inquiries to Lone Star Industries at the address given in the title block.

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EXPLORATION IN NEW ZEALAND

Lime and Marble Ltd., Kennecott Copper Corporation and Cassiar Asbestos Corporation Ltd. announced an agreement whereby Cassiar will undertake exploration of an asbestos property by the Pyke River in the Red Hills area of New Zealand.

The Pyke Asbestos Property is located about ten miles inland from the west coast at Big Bay, where traces of Chrysotile asbestos were reported many years ago. Lime and Marble prospected in the area in 1968. Subsequently Kennecott, under agreement with Lime and Marble. provided the technical and financial resources necessary to explore the area in more detail for nickel and associated minerals. Asbestos was found to occur intermittently along a ten-mile belt of ultramafic rocks. Detailed geologic mapping, nine diamond drill holes and assessment of fiber quality gave sufficient encouragement to warrant a further major program of detailed exploration and evaluation of several of the asbestos occurrences. Under the terms of the agreement, Cassiar Asbestos has undertaken a program which will include trenching, diamond drilling and driving an adit to obtain bulk samples for test milling. The program began in February 1973.

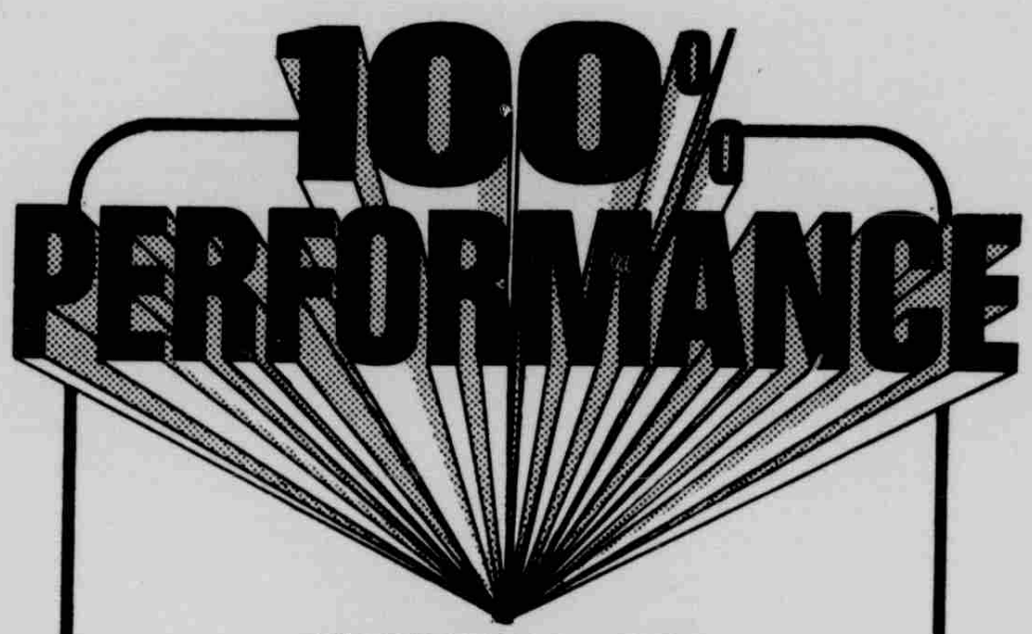
Lime and Marble is a New Zealand mineral processor. Kennecott is a major copper producer in the United States. Cassiar Asbestos is a Canadian company that operates the Cassiar Mine in Northern British Columbia and the Clinton Mine in the Yukon Territory. Each mine produces slightly over 100,000 tons of asbestos fiber per year and employs 450 and 350 workers, respectively.

New Zealand Asbestos Ltd., a private New Zealand company, has been organized to acquire the mining privileges on which the encouraging asbestos fiber showings occur and to undertake a development program if warranted by the results of Cassiar's exploration activites.

The agreement provides that Cassiar has a commitment to spend NZ$400,000. If a total of NZ$1-million is spent, Cassiar and Kennecott would become equal shareholders in New Zealand Asbestos Ltd., with Lime and Marble having the right to acquire equity in the newly-organized company. Lime and Marble will receive cash payments prior to production and thereafter a royalty on the sale of asbestos produced from the property.

Cassiar will provide management services for New Zealand Asbestos Ltd.

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INDUSTRIAL HEALTH & SAFETY

EPA ASBESTOS EMISSION STANDARDS

On March 30, 1973, William D. Ruckelshaus, Administrator of the U.S. Environmental Protection Agency, set national emission standards for asbestos, which had been designated as a hazardous air pollutant under the Clean Air Act amendments of 1970. The standards prohibit visible emission from asbestos mills, selected manufacturing operations and spray-on applications. The use of asbestos tailings for roadway surfacing generally is prohibited and certain work practices are specified for the demolition of buildings. To quote directly from the regulations, "There shall be no visible emissions to the outside air, unless the specified air cleaning methods are used, from any operation which manufactures cloth, cord, wicks, tubing, tape, twine, rope, thread, yarn, roving, lap, other textile products, cement products, fireproofing and insulating materials, friction products, paper, millboard, felt, floor tile, paints, coatings, caulks, adhesives, sealants, plastics and rubber materials, and chlorine.

CORRECTION

One of our informed readers has called to our attention an error that appeared in "A Review of '72" (see December 1972 ASBESTOS, page 2, paragraph 1). The incorrect sentence reads: "Concentrations above 5 fibers but not to exceed 10 fibers per milliliter are permitted up to a total of 15 minutes in an hour for up to 5 hours in an 8-hour day." This limitation was *proposed but not adopted* as part of the new OSHA Standard for employee exposure to asbestos dust, and therefore should not be considered as being in effect.

PRIVILEGE, NOT A RIGHT!

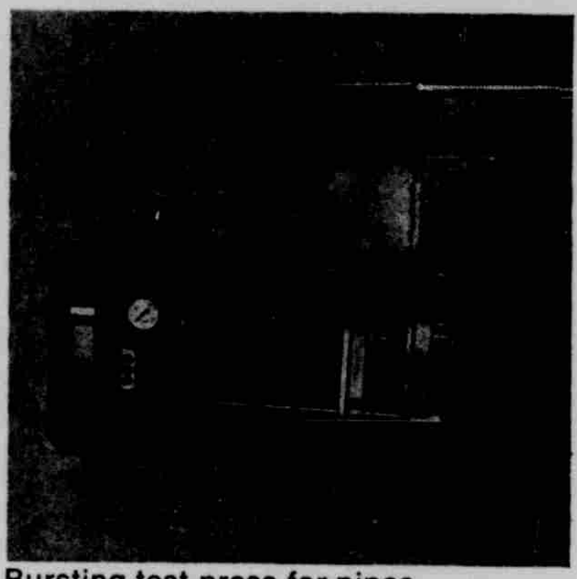
A leading environmental authority says companies no longer have the right to operate manufacturing plants. "As shocking as this may sound it's true," said Dr. R. E. Chaddock, head of environmental control activities at Hercules Incorporated, at a pollution control seminar held last month by The Adhesive & Sealant Council. "It has become a privilege, rather than a right, to operate plants," he said, as he explained

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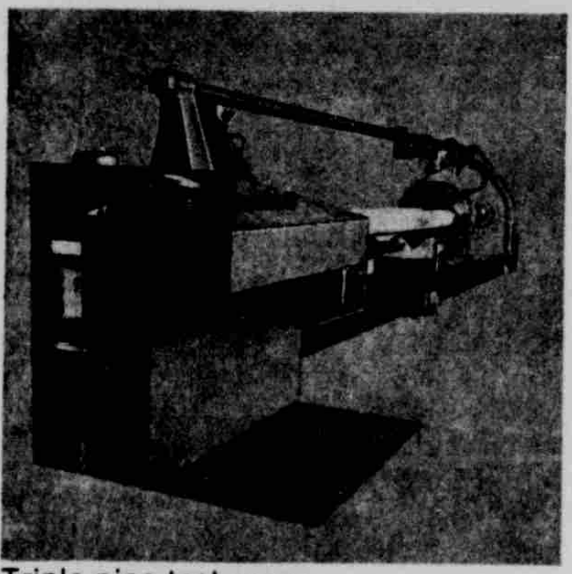
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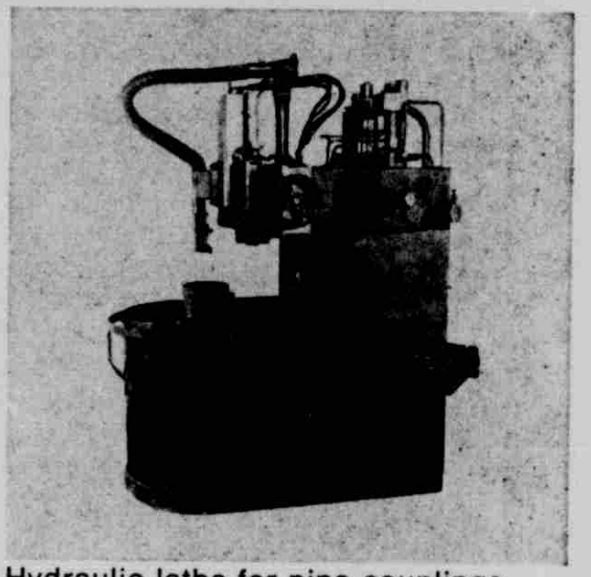
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that strict government legislation has brought a new but good situation, one that "gives industry uniform guidance in its efforts to improve air and water quality."

IIHRP PROGRESS REPORT

According to the Spring 1973 issue of Insulation Hygiene Progress Reports, published by the Insulation Industry Hygiene Research Program, conditions in the asbestos insulation industry have changed little since the promulgation of the Asbestos Standard on June 7, 1972. This is the conclusion drawn from a preliminary analysis of the data in a survey of Asbestos Workers in IAHFIAW on environmental conditions in their work. . . . Roy Steinfurth, formerly Business Agent of Local 45, Toledo, was selected by General President Haas to direct the Health Hazard Program of IAHFIAW. The program was developed by the Asbestos Workers and is being funded by a one-cent-per-hour assessment on each member's wages. . . . Regulations for conducting job health hazard evaluations have been published by the National Institute for Occupational Safety and Health. NIOSH carries out evaluations of potentially-toxic substances in the workplace at the request of employers or of representatives of employees in establishments covered by OSHA. The Report under review contains a copy of the form with which an evaluation can be requested.

TECHNICAL DOCUMENTS ON POLLUTION

Following are two reports recently listed as being available from the National Technical Information Service, Springfield, Virginia 22151: Economic Aspects of Noise Pollution Control [NTIS-PK-160; 27 pages; $20.00] Atmospheric Sampling and Analytic Devices for Monitoring and Detection of Pollutants [NTIS-PK-154; 121 pages; $20.00].

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MARKET CONDITIONS

GENERAL BUSINESS

General business continues to improve at an increasingly rapid rate. In truth, the boom which many economists have been fearing seems to be almost upon us. Production of automobiles and other consumer durable goods is hard pressed to keep up with sales. Machine tool sales are at a peak and construction activity is strong. Steel producers are struggling to catch up with a largely unpredicted surge in demand.

Despite all these apparently favorable factors there is a growing unrest on the part of the general public at the sharp increases in the cost of living which have occurred over the past few months. The President reacted to this situation on March 29, by placing ceilings on certain meat prices. While this may prevent further rises in such prices, consumer groups take the position that the ceilings are too high and also that they should be imposed on all food prices. There is no doubt that Phase 3 of the wage and price stabilization program has been anything but an unmitigated success and organized labor is now taking the position that, in view of the greater-than-expected rise in prices, it cannot be bound by previously established guidelines and will be forced to demand hefty wage increases in coming negotiations.

Aside from the specter of runaway inflation there are other factors at work which are beclouding the future business outlook. These are such things as shortages of many materials (the shortage and high prices of lumber threaten to put a crimp in the present healthy housing industry), a shortage of skilled labor which threatens the ability of manufacturers to satisfy growing demands, a large rise in the U.S. trade deficit in February and continuing increases in interest rates. Add to these the threat of an energy crisis with a predicted shortage of motor fuel during the coming summer and it is not difficult to see why there is now a great deal of hedging as to the immediate future of the general economy. On the one hand we are faced with a boom "in being"; on the other with a myriad of conditions which threaten to stifle the boom and even initiate a recessionary trend. Whether the opposing forces now at work can offset each other in such a way as to permit a continuing healthy growth with neither "boom" nor "bust" is a moot question.

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ASBESTOS FIBER

Shipments of asbestos fiber to date in 1973 have been running well ahead of the 1972 pace. The demand for the shorter grades has continued strong in 1973 and the weakness in demand for the longer fibers which persisted for the greater part of 1972 has been replaced by a very heavy demand.

Primarily, the heavy demand for the longer grades is from the international market and, in particular, from Europe. It is apparent that inventories were at a lower-than-normal level at the end of the year and, in addition, currency changes and some increases in business activity have combined to provide a much healthier picture in asbestos markets.

It is noted, with concern, that the adverse publications on "asbestos and health" continue with increasing frequency and the greater the sensationalism the bigger the headlines. In most cases the information presented in these articles is greatly exaggerated and the facts distorted. However, the press is a willing ally to this deception.

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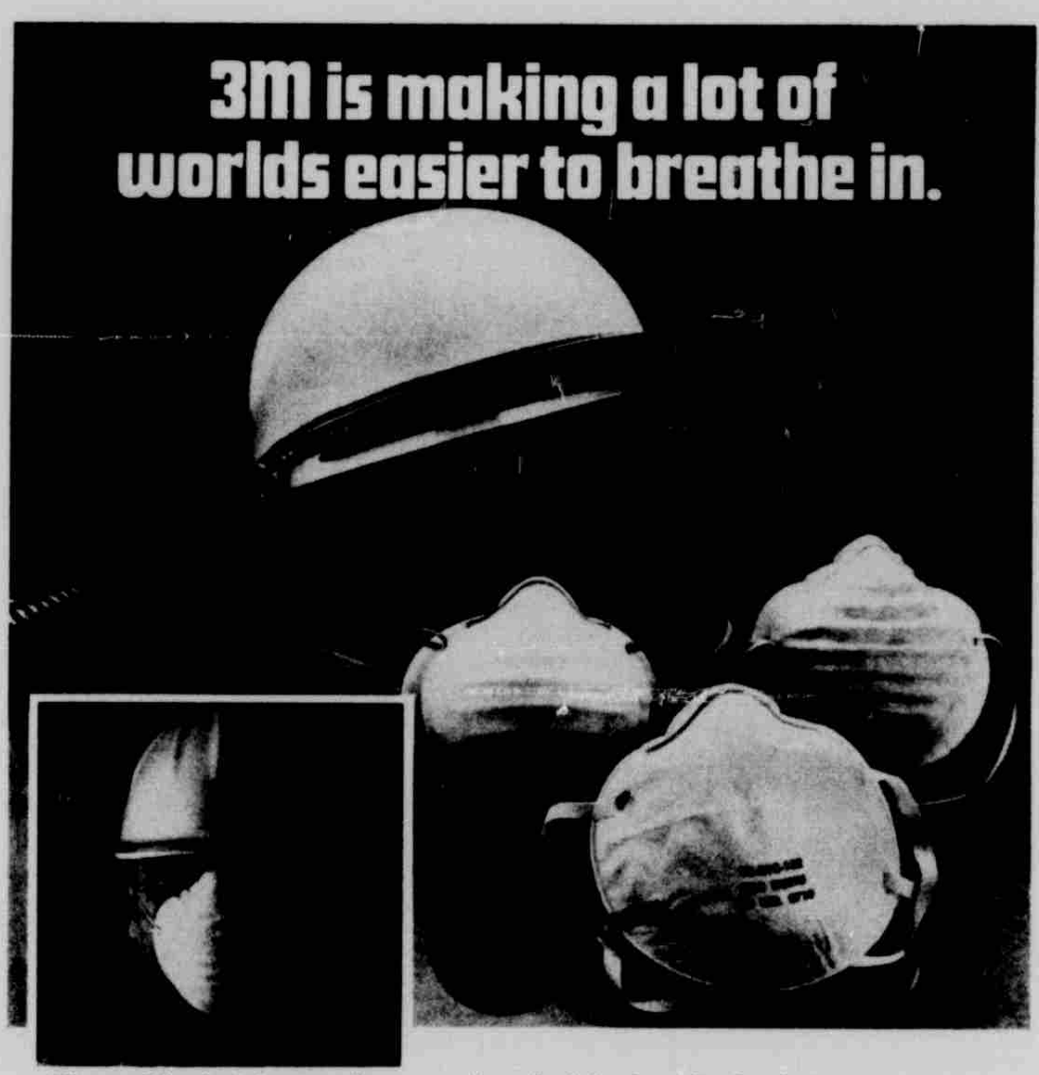
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Occupational Health & Safety Products

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CONSTRUCTION NEWS

FEBRUARY 1973—Surging nonresidential building work pushed the Dodge Index of construction contract value to a record high of 191 in February, a 6% increase over the 181 reached in January. Total construction contract value in February was $6,839,065,000, 22% ahead of the same month last year.

Nonresidential building contract value in the latest month, at $2,228,946,000, posted a 25% gain over the previous February. Most types of nonresidential construction showed solid advances, led by a 60% boost in contracting for industrial buildings.

Residential building, despite the freeze in housing subsidy programs, was 23% ahead of last year, with contracts totaling $3,276,774,000 for new apartments, one-family homes and nonhousekeeping residential construction. The substantial backlog of approvals for subsidized housing still to be started will delay the effect of January's moratorium for quite some time. The freeze on this quarter-million unit segment of the housing market is a kind of time bomb set to go off around the end of 1973—and it could blow a sizeable hole in next year's housing starts.

Nonbuilding construction contracts totaled $1,333,345,000 in February, a gain of 17% over the year-ago value. Despite the gain, nonbuilding construction is a shaky market right now due to its dependence on government support. All of February's increase was confined to the one category which is the exception to that rule—electric generating plants.

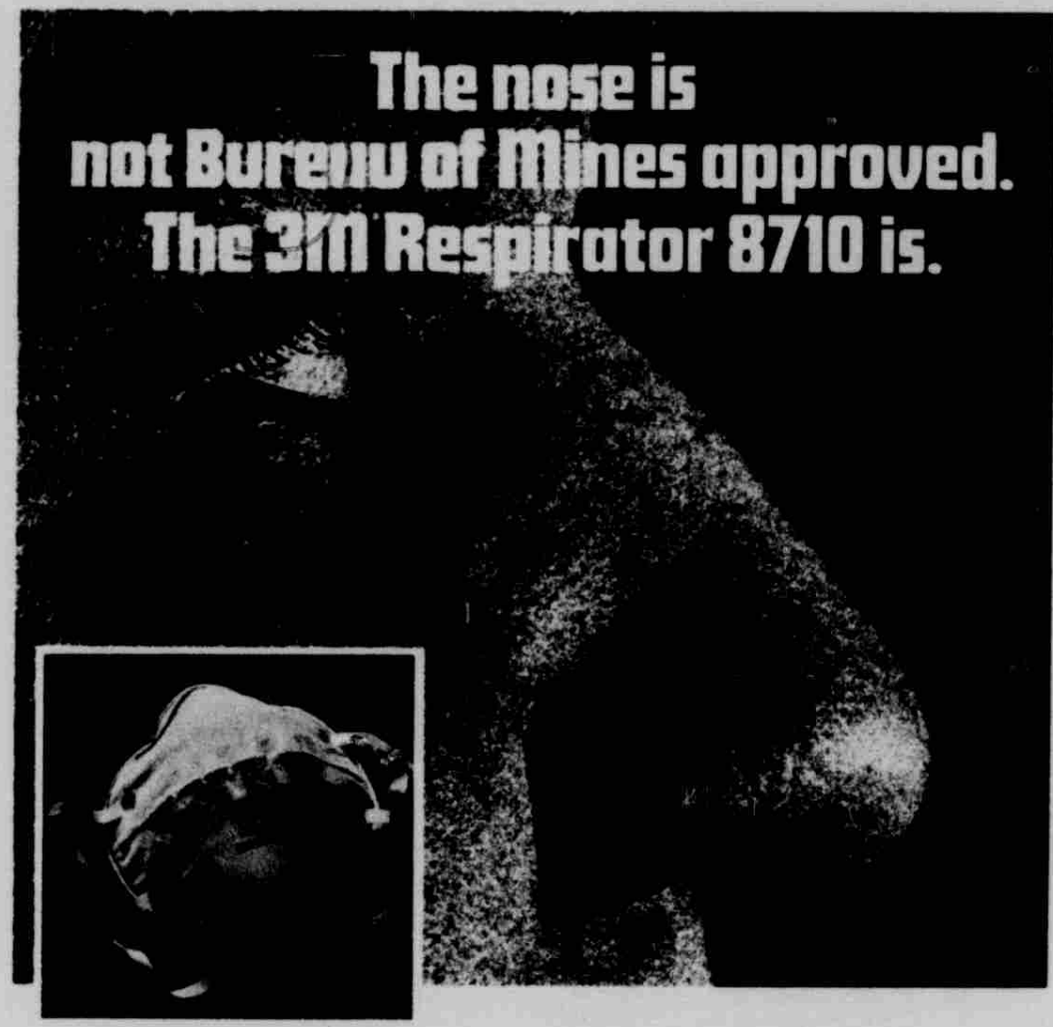
Cumulative construction contract value for the first two months of 1973 totaled $13,660,850,000: Nonresidential, $4,646,657,000, up 32%; Residential, $6,507,400,000, up 22%; and Nonbuilding, $2,506,793,000, down 9%. The two-month total was 18% ahead of the same period in 1972. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

JANUARY 1973 motor vehicle factory sales from plants in the *United States* totaled 1,164,271 (passenger cars—900,484; trucks and buses—263,787). The total for January 1972 was 889,004. . . . Motor vehicle factory sales from plants in *Canada* totaled 143,093 in January 1973 against 114,377 in the same month of the previous year. [Motor Vehicle Manufacturers Association of the U.S., Inc., Detroit, Michigan]

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PRODUCTION—IMPORTS—EXPORTS

AUSTRALIA

Chrysotile production during the *First Quarter 1972* totaled 950 short tons, all from New South Wales. . . . *Imports* reached 15,428 tons, valued at $2,395,000 (Chrysotile, 11,094 tons, $1,730,000; Amosite, 3,883 tons, $612,000; Other types, 451 tons, $53,000). . . . *Exports* of All Types and Grades amounted to 201 tons, valued at $23,000. . . . Comparable totals for First Quarter 1971 are: 226 tons produced, 22,485 tons imported at a value of $3,157,000; and 4 tons exported, valued at less than $1000. [Bureau of Mineral Resources, Geology and Geophysics, Canberra]

Production of non-acoustic asbestos-cement sheets for the twelve-month period *July 1971-June 1972* totaled 44,353,000 square yards, compared with 40,240,000 square yards during the year ended June 1971. [Commonweath Bureau of Census & Statistics, Canberra]

CANADA

Following are values of *asbestos-based products imported* into Canada for the *Year 1972:* vinyl-asbestos floor and wall tiles—$143,000 (123,865 square yards); asbestos cloth, dryer felts and sheets—$1,115,000; asbestos packing—$1,130,000 (1,377,072 pounds); asbestos brake linings—$4,920,000; asbestos clutch facings—$644,000; asbestos-cement shingles and siding—$160,000; asbestos-cement board and sheets—$842,000; other asbestos building materials—$3,846,000; and other asbestos basic products—$1,918,000. [Statistics Canada, Ottawa]

CYPRUS

Production of asbestos for the *First Nine Months of 1972* totaled 21,675 short tons, valued at £1,304,000, an increase of 3,240 tons, valued at £272,610, over the same period of 1971. [Ministry of Commerce & Industry, Mines Department, Nicosia]

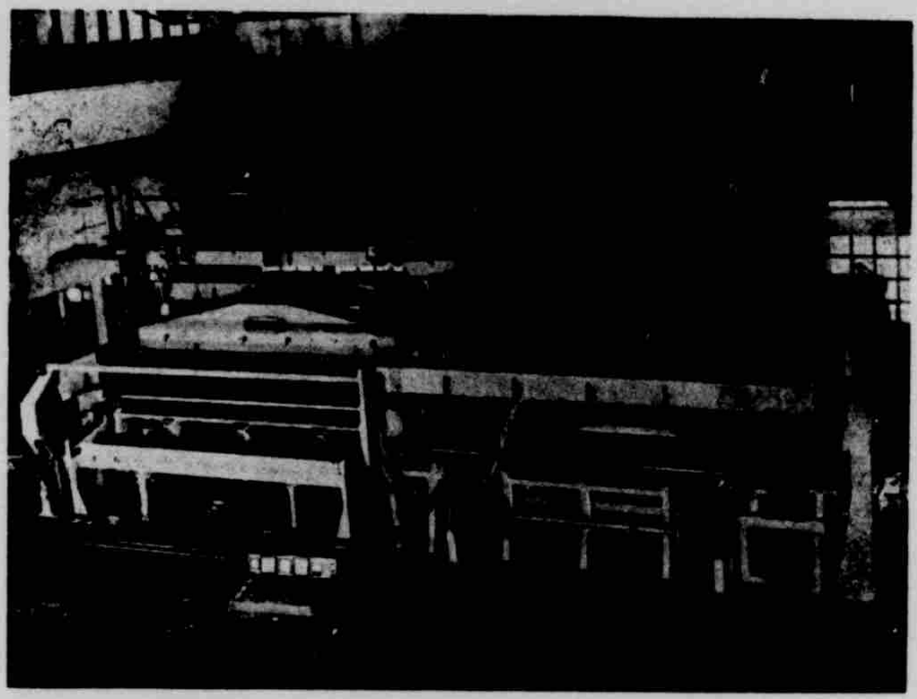
REPUBLIC OF SOUTH AFRICA

Production of asbestos from *January-September 1972* totaled 238,699 metric tons: 75,933 tons of Amosite, 42,473 tons of Chrysotile, 116,023 tons of Cape Blue, 4,270 tons of Transvaal Blue. Production during the same nine-months period of 1971 was 241,887 tons. . . . *Local Sales* reached 18,852 tons, valued at R1,949,883, compared with 25,536 tons, valued at R2,639,781, during the first nine months of the prior year. The breakdown for 1972 is: Amosite, 1,874 tons, R204,378; Chrysotile, 11,178 tons, R935,260; Cape Blue, 5,578 tons, R797,622; Transvaal Blue, 222 tons, R12,633. . . . *Exports* of asbestos for the nine-month period to September 1972 totaled 181,273 tons, valued at R25,733,566, broken down as follows: Amosite, 65,158 tons, R8,964,387; Chrysotile, 26,903 tons, R2,334,817; Cape Blue, 85,632 tons, R13,787,044; Transvaal Blue, 3,580 tons, R647,318. Exports for the same period in 1972 were 189,139 tons, valued at R24,563,832. [Department of Mines, Johannesburg]

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**NOVEMBER 1972**	
Amosite, South Africa	s tons	447	$ 77,760
Crocidolite (Blue) South Africa	s.tons	1,035	218,920
Chrysotile, Crudes, South Africa	s.tons	222	44,892
Chrysotile, Spinning Fibers, Canada	s.tons	1,000	481,221
Chrysotile, Other, Canada	s.tons	58,634	6,248,639
Other Crudes & Fibers, Canada	s.tons	168	15,319
Finland	s.tons	279	17,854
Italy	s.tons	1	1,465
South Africa	s.tons	41	8,383
		61,827	$ 7,114,453

Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	545,049	$ 487,987
A-C pipes, tubes and fittings	Lb	1,192,265	72,052
A-C articles, other	Lb	1,798,034	316,956
Asbestos articles, other		..	281,288
			$ 1,158,283

Unmanufactured Asbestos:		**JANUARY-NOVEMBER 1972**	
Amosite, Mozambique	s.tons	68	$ 11,829
South Africa	s.tons	7,061	1,317,198
Crocidolite (Blue), Bolivia	s.tons	29	2,966
South Africa	s.tons	4,888	1,068,938
Chrysotile, Crudes, Canada	s.tons	43	8,670
Mozambique	s.tons	360	73,466
Rhodesia	s.tons	180	90,300
South Africa	s.tons	2,439	557,737
Swaziland	s.tons	40	21,200
Chrysotile, Spinning Fibers, Canada	s.tons	11,002	5,078,999
South Africa	s.tons	16	7,105
Yugoslavia	s.tons	843	11,503
Chrysotile, Other, Canada	s.tons	646,537	72,501,780
Other Crudes & Fibers, Canada	s.tons	2,546	306,717
Finland	s.tons	2,088	140,913
Greece	s.tons	6	1,361
Italy	s.tons	2	2,576
Mozambique	s.tons	597	117,759
South Africa	s.tons	1,332	198,070
Switzerland	s.tons	4	1,538
Yugoslavia	s.tons	843	42,611
		680,924	$81,563,236

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Manufactured Asbestos Goods:

Asbestos yarn, slivers, etc.	Lb	4,018,667	$ 3,641,081
A-C pipes, tubes and fittings	Lb	32,380,373	1,675,118
A-C articles, other	Lb	18,457,930	2,959,938
Asbestos articles, other		..	2,170,553
			$10,446,690

SURVEY OF MANUFACTURES—1971

Value of U.S. shipments of *insulating board* (SIC 2661) in 1971 was estimated at $252.5 million, compared with $198.1 million in 1970 and $212.7 million in 1969. The approximate statistics for *asbestos products* (SIC 3292) are $633.9 million in 1971, $585.6 million in 1970 and $647.4 million in 1969. A breakdown for 1971 of the value of shipments of asbestos products is: asbestos friction materials—$167.5 million, asbestos-cement shingles and clapboard—$23.5 million, asphalt floor tile—$10.9 million, vinyl-asbestos floor tile—$183.6 million, asbestos textiles and other asbestos and asbestos-cement products—$242.7 million, and other asbestos products not specified by kind—$5.7 million. Total shipments of *gaskets and insulations* (SIC 3293) in 1971 were estimated at $389.3 million, against $365.1 million in 1970 and $389.5 million in 1969. The 1971 estimate includes $271.9 million for all types of gaskets, $84.5 million for asbestos insulations and packing (except leather, rubber and metal), and $32.9 million for gaskets and insulations (n.s.k.). [M71(AS)-2, Value of Product Shipments, U.S. Bureau of the Census; 50¢]

WORLD RESERVES

Total world reserves of asbestos at year-end 1972 were estimated at about 329,000,000 short tons (Canada—144 million tons, Republic of South Africa —23 million tons, United States—10 million tons, Other Free World—48 million tons, and Communist Countries except Yugoslavia—104 million tons). . . .U.S. demand forecast for asbestos to the year 2000 indicates an average annual growth rate of 3% to 5.2%. World reserves other than U.S. appear ample to continue to supply 85% or better of this demand. Prices for both U.S. and imported material are expected to remain relatively constant. More extensive use must be made of very short fibers if the ratio of U.S. supply to demand of 17% is to be maintained. Technological progress suggests that competitive synthetic asbestos or asbestiform fibers may become available before the end of the century [Commodity Data Summaries, January 1973; Division of Nonmetallic Minerals, U.S. Bureau of Mines]

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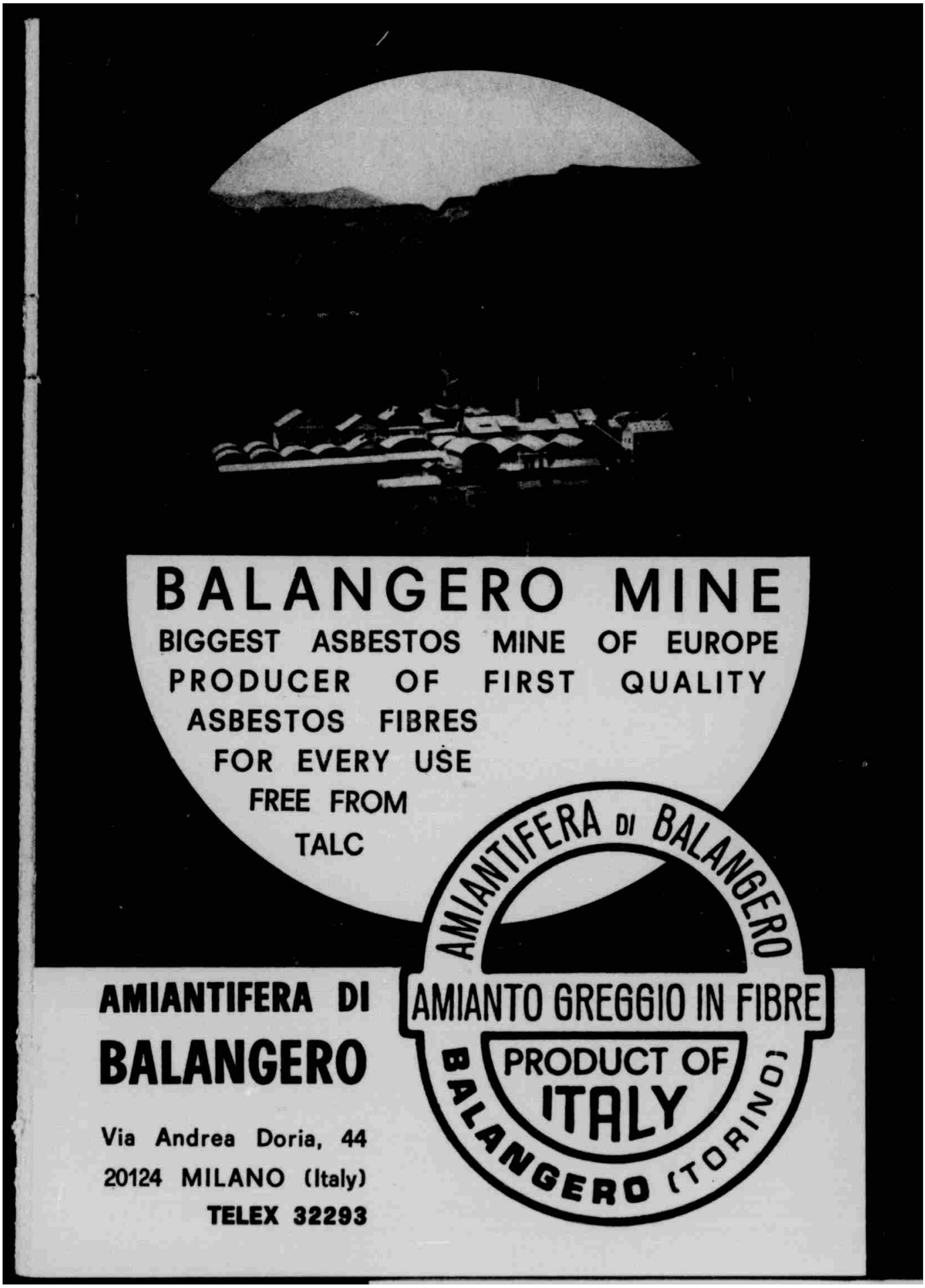
EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**NOVEMBER 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,134	$ 117,723
Waste and refuse	s.tons	3,138	442,069
		4,272	$ 619,792
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,430,299	$ 166,785
Other a-c or fiber-cement articles	Lb	1,444,533	217,343
Gaskets	Lb	9,727	28,944
Packing	Lb	306,637	539,120
Heat or sound insulation		..	222,831
Textiles and yarns	Lb	1,976,214	752,715
Protective clothing		..	36,854
Mfrs. other than friction materials		..	436,033
Cl. facings and linings for auto. use	No	146,000	138,429
Other clutch facings and linings	No	112,243	68,331
Brake linings for automotive use	Lb	573,077	356,315
Other brake linings	Lb	210,856	149,442
			$ 3,113,142

Unmanufactured Asbestos:		**JANUARY-NOVEMBER 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	19,699	$ 3,343,393
Waste and refuse	s.tons	28,031	3,646,778
		47,730	$ 6,990,171
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	19,970,955	$ 2,229,671
Other a-c or fiber-cement articles	Lb	18,892,828	2,055,412
Gaskets	Lb	495,079	893,714
Packing	Lb	4,033,018	6,033,101
Heat or sound insulation		..	1,650,708
Textiles and yarns	Lb	15,805,709	4,384,308
Protective clothing		..	286,285
Mfrs. other than friction materials		..	4,288,779
Cl. facings and linings for auto. use	No	1,651,240	1,360,909
Other clutch facings and linings	No	859,058	431,093
Brake linings for automotive use	Lb	5,757,060	4,055,596
Other brake linings	Lb	2,515,470	2,089,317
			$29,758,893

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EXPORTS FROM CANADA

Figures from Statistics Canada

NOVEMBER 1972

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	4	808	39,122	18,002
Eastern Europe	..	1,300	664	..
Middle East	..	39	3,424	507
Africa	..	..	226	550
Asia	5	172	10,999	15,699
Oceania	..	..	5,232	565
So. & Cen. America & Antilles	..	149	6,214	2,058
United States	1	1,211	14,381	44,175
	10	3,679	80,262	81,556

The total amount of unmanufactured asbestos exported in *November 1972* was 165,507 short tons, valued at $24,479,000.

Manufactured Asbestos Goods:

Brake linings and facings	$	63,000
Asbestos-cement building materials		146,000
Other basic products		211,000
	$	420,000

JANUARY-NOVEMBER 1972

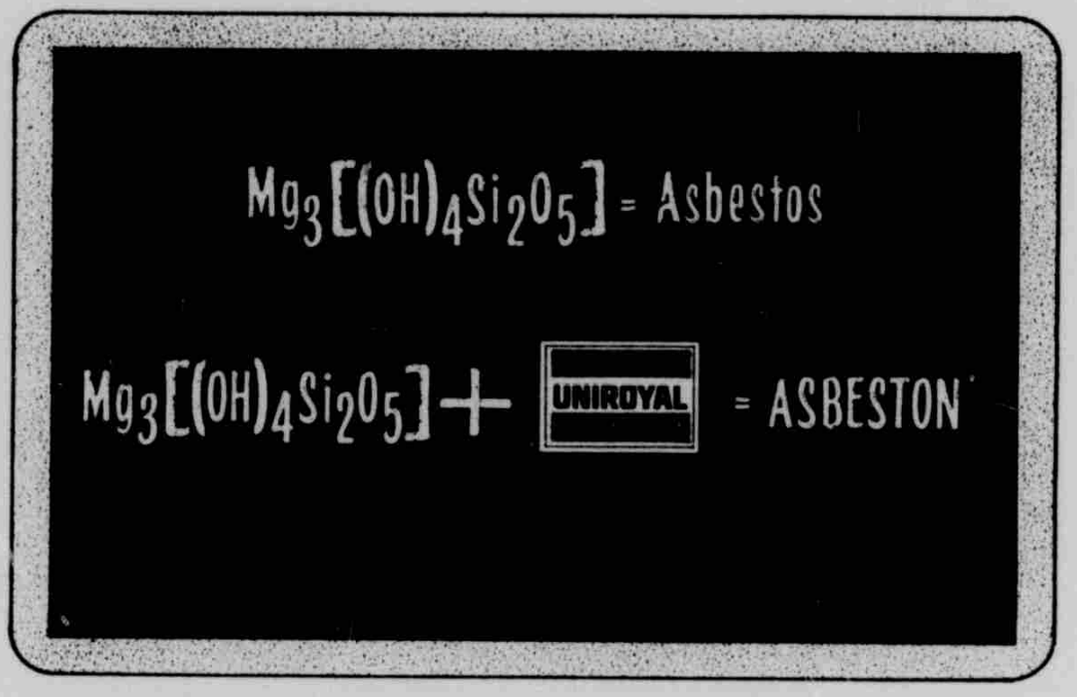
Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	21	8,608	257,348	137,110
Eastern Europe	..	2,009	21,293	1,348
Middle East	..	111	19,389	6,546
Africa	..	110	9,153	2,659
Asia	15	2,750	78,452	99,397
Oceania	..	56	44,524	10,519
So. & Cen. America & Antilles	..	820	70,614	26,301
United States	17	13,254	181,120	468,039
	53	27,718	681,893	751,919

The total amount of unmanufactured asbestos exported in *January-November 1972* was 1,461,583 short tons, valued at $210,824,000.

Manufactured Asbestos Goods:

Brake linings and facings	$	771,000
Asbestos-cement building materials		1,973,000
Other basic products		2,218,000
	$	4,962,000

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A/C FACTORY IN KENYA

It was reported in the February 1973 issue of "Standard Bank Review" that a K£600,000 asbestos-cement products firm is expected to commence business in Mombasa, Kenya, towards the end of this year. A development of the recently-formed *Kenya Asbestos Co. Ltd.*, the project includes building a factory and office block and installing processing machinery. Construction work on a 40-acre site adjacent to the Bamburi Portland Cement Works has already begun.

Owned by a consortium comprising the Swiss firm, Cementia AG, Bamburi Portland Cement Co. Ltd. and the Development Finance Co. of Kenya Ltd., the KAC project will initially fabricate corrugated roofing sheets, ridgings, tiles, water tanks and sunbreakers.

EXCERPTS FROM MINERALS YEARBOOK 1971

CYPRUS—The per capita gross national product has risen from $320 in 1960 to $768 in 1971. Minerals, principally copper, chromite and asbestos, have contributed generously to the strength of the economy, providing approximately 30% of the total value of exports from the Island in 1971. Preliminary production figures for 1971 include 22,612 metric tons of asbestos. Exports of asbestos in 1970 amounted to 24,133 tons, mostly to Denmark, United Kingdom, Sweden, Lebanon and the Arab Republic of Egypt.

GHANA—The Canadian International Development Agency was scheduled to finance a program for developing a school of mines that will be located at Tarkwa, Ghana. According to the agreement signed by the two countries, Canada will supply three geology and mining engineering specialists and provide scholarships for training Ghanaians in Canada. The National Investment Bank of Ghana and a West German organization, the Fulgrit Group, reportedly were financing a $3.6 million asbestos sheet factory which would be built at Tema. In 1970, Ghana imported 51 metric tons of asbestos, compared with 56 tons in 1969.

ISRAEL—Efforts were continued to stimulate greater industrial and agricultural growth and bolster the country's exports. In 1970, Israel imported 7,589 metric tons of asbestos.

MOROCCO—Minerals continued to account for over 30% of the value of Moroccan exports in 1971. The country imported 3,551 metric tons of asbestos in 1970.

TAIWAN—The mineral processing sector accounted for 17.6% of the 1971 gross national product, compared with 1.4% for the mining sector. Preliminary production statistics for 1971 include 2,327 metric tons of asbestos. In 1970, 151 tons were exported and 6,589 tons were imported.

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NOTES FROM ANNUAL REPORTS, 1972

JIM WALTER CORPORATION

Jim Walter Corporation operations for the year ended August 31, 1972, resulted in the most successful fiscal period in the 26-year history of the company. Sales and revenues totaled $885,172,000 and net earnings reached $44,568,000, 20.3% and 28.3% ahead of the prior year. During the year, five companies in the building materials and related fields were acquired for a total of $76,893,000 in cash and 794,166 shares of common stock. One of the acquisitions was *Panacon Corporation (including Philip Carey and Carey-Canadian Mines Ltd.),* which was merged into the Celotex Division last June. Carey-Canadian Mines, Quebec, Canada, mines and mills asbestos fibers for the building construction industry and is the third largest asbestos producer in the North American continent. It showed higher sales and income as market demand for asbestos fibers continued strong in 1972. Carey-Canadian markets its products in more than 30 countries, with U.S. customers accounting for more than 60% of its production. Over half of the output is used in floor tiles and flooring felts. Recently-adopted OSHA regulations calling for a two particle asbestos fiber limit per cubic centimeter by July 1, 1976, will require leakproof, tearproof packaging or, where feasible, bulk shipments of its product. Carey-Canadian will initiate a capital program in 1973 to meet these requirements.

TURNER & NEWALL LTD.

The Turner & Newall Group engages in every stage of the chain of production of asbestos goods from mine to manufacture of the final product. Its subsidiaries and branches mine asbestos fiber in Canada, Swaziland and South Africa and manufacture a wide range of building, textile and insulation products, friction materials and gaskets. T & N has important wholly-owned asbestos mining and manufacturing interests in Rhodesia from which it has been cut off since shortly after the declaration of independence in that country in November 1965. Management has followed a long-term policiy of diversification into a wide range of products other than asbestos and non-asbestos products now constitute about 25% of worldwide turnover and some 40% of turnover in home markets. Net trading profit of the Group for the year ended September 30, 1972, totaled £13,880,000, compared with £13.5 million in 1971.

The "composite panel" business of P & S Cladding Ltd. was acquired and is being operated by *TAC Construction Materials Ltd.* and negotiations have been completed for the purchase of M. McCarthy & Sons Ltd., makers of calcium silicate and flint-lime facing bricks. . . . *Newalls Insulation Co. Ltd.* has taken over the

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World Wide CONSULTING SERVICES

Working on asbestos projects since 1946, SNC and its associate GECO have grown up with the industry, becoming one of the few consulting organizations with extensive experience in this specialized field.

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.

SURVEYER, NENNIGER & CHENEVERT INC.
1550 DE MAISONNEUVE BLVD., W., MONTREAL 107, CANADA

GENERAL ENGINEERING (1970) COMPANY LTD.
100 ADELAIDE STREET WEST, TORONTO, CANADA

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thermal insulation contracting activities of Union International Co. Ltd.

Profit for *TBA Industrial Products Ltd.* was sharply down due to lower overall volume of business, restraint on prices, higher costs and the effects of national strikes. Sales of asbestos textiles were much lower. There is worldwide over-capacity in this industry and in many overseas markets bulk business could be obtained only at very low prices. . . . *Ferodo Ltd.* won its second Queen's Award to Industry for Technological Innovation, for a new integrated method of continuous production of drum brake linings. . . . At *Bell Asbestos Mines Ltd.*, Thetford Mines, Quebec, new shaft installations were completed and underground development progressed. . . . *Atlas Asbestos Co.*, Montreal, had an encouraging year with relatively-high demand for building products and pipes. . . . The Payen Components Division of *Turners Engineering Products (Pty) Ltd.*, South Africa, discontinued production at the East London factory and this should result in increased production at the Port Elizabeth Works.

ASBESTOS STOCK QUOTATIONS

Close—March 20, 1973

Abitibi Asbestos	*$2.25	G&W (pfd 3.50)	112⅛
Advocate Mines	*$1.28	G&W (pfd 3.87)	57⅛
Allied Mining	*$3.20	G&W (pfd 5.75)	77
Asarco	20¼	Illinois Central	23⅞
Armstrong Cork	25¾	Ill. Central (pfd A-6)	106½
Armst Cork (pfd 3.75)	54¾	Ill. Central (pfd 3.50)	47⅞
Asbestos Corporation	*$18.25	Jim Walter Corporation	24⅜
Bendix	38½	Jim Walter (pfd 1.60)	30
Bendix (pfd 3)	58	Jim Walter (pfd 1)	13⅝
Carlisle	21¾	Johns-Manville	23⅞
Cassiar Asbestos	*$12.125	Kennecott Copper	27¼
Cerro Corporation	15⅞	Maremont	39¼
Certain-teed Products	15⅝	McAdam Mining	*$.42
C-teed (pfd .90)	32	National Gypsum	15⅜
Charter Consolidated	**238	Pathfinder	*$.62
Conwest	*$7.20	Porter (pfd 5.50)	81½
Flintkote	19½	Raybestos-Manhattan	25⅝
F-kote (pfd-A 4.50)	67¾	Rio Algom	*$26.50
F-kote (pfd-B 2.25)	32½	Royal Industries	7¾
GAF Corporation	15⅛	Unarco	10⅛
GAF (pfd 1.20)	22½	Union Carbide	43¾
Garlock	17⅜	Uniroyal	13
Grace	25	Uniroyal (pfd 8)	103½
Gulf & Western	26⅞	United Asbestos	3⅜
G&W (wt)	7	Woodsreef Mines	*$.75

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

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Enquiries for Amosite and Blue Crocidolite Fibre to:-

Cape Asbestos Fibres Limited,
Iver Lane,
Cowley, Uxbridge,
Middlesex, England.
Telephone: Uxbridge 37111
Telegrams: Amoblue-Uxbridge
Telex: 23471/UXB

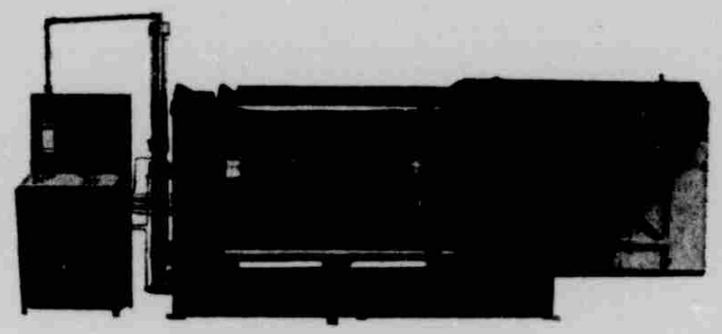
North American Asbestos Corporation,
Suite 2950,
150 North Wacker Drive,
Chicago. Illinois 60606,
U.S.A.
Telephone: (312) 726 8515
Telegrams: Noramco Chicago

BIRTHDAY GREETINGS to . . .

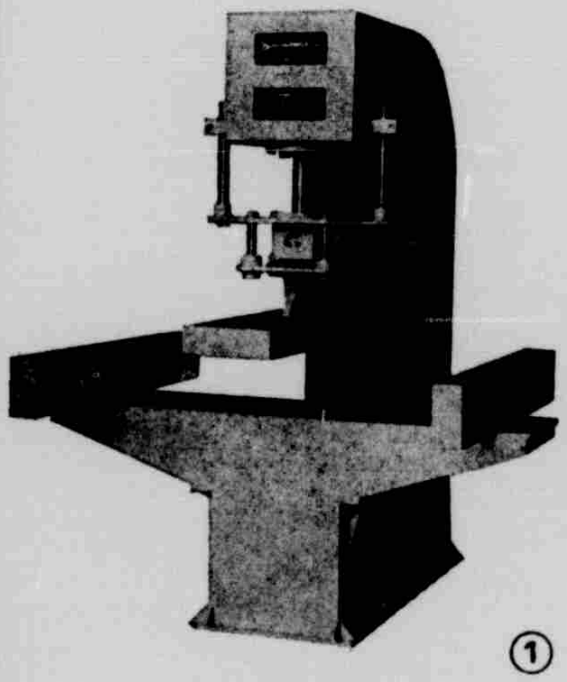
J. William Duncan, Vice President-Corporate Development, National Gypsum Company, Buffalo, New York, May 8.
John P. Hayes, Corporate Group Vice President, National Gypsum Company, Buffalo, New York, May 9.
R. J. Lambson, General Manager, Everite Ltd., Johannesburg, South Africa, May 10.
F. Parker Smith, Vice Chairman, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, May 10.
C R. Elliott, Vice President & Secretary, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, May 11.
R. B. Todd, Vice President-Manufacturing, Atlas Asbestos Company, Montreal, Quebec, May 11.
E. J. Weber, Jr., Vice President-Industrial Relations, The Flintkote Company, White Plains, New York, May 13.
R. D. C. Hubbard, Director, The Cape Asbestos Co., Ltd., London, England, May 14.
R. M. Bateman, Chairman, Turner & Newall Ltd., Manchester, Lancashire, England, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.
J. R. M. Hutcheson, Chairman of the Board & General Manager, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, May 17.
Kurt Schwarz, Senior Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.
M. L. Trepanier, Plant Manager, King-Beaver Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, May 19.
R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.
William T. Colborn, Vice President, Pacor Inc., Philadelphia, Pennsylvania, May 21.
James A. Goodwin, Manager, Reeves Mine, Canadian Johns-Manville Co. Ltd., Timmins, Ontario, May 21.
E. Gaskell, Deputy Chairman, Cape Insulation Ltd., Stirling, Scotland, May 22.
Virgil W. Cooprider, Corporate Vice President-Personnel & Industrial Relations, National Gypsum Co., Buffalo, N. Y., May 24.
Michael C. Mangan, General Superintendent, Hedman Mines Ltd., Matheson, Ontario, May 24.
J. L. Geddes, Managing Director, Cape Insulation Ltd., Stirling, Scotland, May 27.
A. J. McMullen, Chairman & Chief Executive, Garlock Inc., Palmyra, New York, May 27.
Kenneth M. Eden, Assistant to President, Nicolet Industries, Inc., Ambler, Pennsylvania, May 28.
Lionel C. Piuze, Vice President, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, May 30.
Robert L. Zale, Sales Promotion Manager, Building Products Division, National Gypsum Company, Buffalo, New York, June 1.
Byron M. Snyder, Special Representative, Asbestos Fibre Department,

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① Bending and crushing test press for sheet and pipes



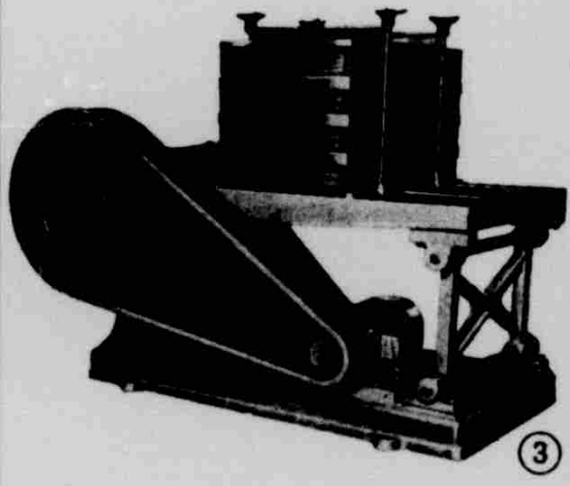
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

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Johns-Manville Corporation, New York City, June 2.
Leo J. Bartolanzo, Controller, Johns-Manville Corporation, Denver, Colorado, June 3.
Bert I. Bertelsen, Manager, Industrial Products Division, GAF Corporation, Staffordville, Connecticut, June 3.
P. H. A. Mount, Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, June 3.
Harold F. X. Plate, Sales Manager, Carey-Canadian Mines, Ltd., Dorval, Quebec, June 3.
J. C. T. Fell, Managing Director, Raybestos-Belaco Ltd., Swanley, Kent, England, June 4.
William T. Kelly, Jr., Director, Abex Corporation, New York City, June 5.
Joseph N. Yorke, Vice President-Finance, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, June 6.
M. A. F. Newton, Director, The Cape Asbestos Co. Ltd., London, England, June 7.
Stuart H. Brigham, Assistant to the President, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, June 8.
Herbert Morton Ball, Vice President, General Counsel & Secretary, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Director-Market Services, Building Products Division, GAF Corporation, New York City, June 9.

STANDARDS FROM ASTM

C 720 72—Specification for Spray-Applied Fibrous Thermal Insulation for Elevated Temperature. [New Standard; Ref. Part 14, 1973; $1.25]

C 725 72—Specification for Semi-Dense Mineral Fiber Siding. [New Standard; Ref. Part 12, 1973; $1.25]

D 123 72—Definition of Terms Relating to Textile Materials. [Revision of Standard; Ref. Parts 24 & 25, 1972; $1.25]

G 18 72—Method of Test for Joints, Fittings and Patches in Coated Pipelines. [Adopted as Standard With Revision; Ref. Parts 21 & 30, 1973; $1.25]

1972 Annual Book of ASTM Standards—The following Parts are now available at prices quoted, plus shipping charges of 5% in the United States and 7% to other countries: *Part 12* on Chemical-Resistant Nonmetallic Materials, Clay and Concrete Pipe and Tile, Masonry Mortars and Units, Asbestos-Cement Products, and Natural Building Stones [Publication Code 01-012072-10; $17.00]; *Part 14* on Thermal and Cyrogenic Insulating Materials, Environmental Acoustics, Building Joint Sealants, Fire Tests and Building Constructions [Publication Code 01-014072-10; $21.00]; and *Part 25* on Textile Materials—Fibers and Zippers and High Modulus Fibers [Publication Code 01-025071-28; $22.00]

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ASBESTOS CORPORATION LIMITED

ASBESTOS

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Canadian Asbestos Ontario Ltd.
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Toronto 2, Ont.

■ MEXICO

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Apartado Postal 8600
Mexico 1, D.F.

■ UNITED STATES

BALTIMORE, MD. 21202
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290 Larkin St.

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5875 N. Lincoln Ave.

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N 203 Cincinnati Union Terminal

CLEVELAND, OHIO 44102
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6400 Herman Avenue

DETROIT, MICH. 48219
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16772 Plainview Road

FORT WORTH, TEXAS 76106
Lehman-Phillips, Inc.
2550 Glendale Ave.

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31702 Hayman St.

KENT, WASH. 98031
Central Solvents & Chemicals Co.
7601 South 190th St.

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D. F. Condon Co.
Box 26012
Chef Menteur Station

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1000 Coolidge St.

PHILADELPHIA, PA. 19140
Charles A. Wagner Co. Inc.
4455 N. 6th St.

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10821 North Lombard St.

ST. PAUL, MINN. 55114
MacArthur Co.
936 Raymond Ave.

SALT LAKE CITY, UTAH 84110
Central Solvents & Chemicals Co.
407 West 17th South St.

SANTA FE SPRINGS, CAL. 90670
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13900 Carmenita Road

SPOKANE, WASH. 99206
Central Solvents & Chemicals Co.
6308 East Sharp Avenue

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MEN ON THE MOVE

CAPE ASBESTOS GROUP

The Cape Asbestos Co. Ltd. recently acquired two companies which operate as distributors of automotive replacement parts and further similar acquisitions will be made. Cape Distribution was formed to manage the Group's interests in this field. Top executives of CD include *B. C. Winch*, Managing Director, and *R. D. McIntyre-Brown*, Financial Director and Secretary.

HUMES LTD.

Angus V. Richardson was appointed Managing Director of Humes, having served as General Manager for the past two years. His career began at Perth, Western Australia, in 1929 as a junior in the office. He was named Chief Sales Manager for the company in 1957, Assistant General Manager in 1959 and later, Deputy General Manager.

JOHNS-MANVILLE CORPORATION

George W. Romney, former Secretary of the U.S. Department of Housing and Urban Development, has accepted the invitation, subject to stockholder approval, to serve on J-M's Board of Directors. . . . *Robert H. Cuje* was appointed Vice President of Corporate Marketing and will be responsible for plans, policies and procedures involving J-M's worldwide marketing as well as overall administration of trade and government relations, programs and economic/market analysis.

NATIONAL GYPSUM COMPANY

Allen E. Valentine was named an International Management Consultant, a corporate function responsible for special studies to improve the procedures and profitability of National's seven operating divisions. . . . *Edward J. Killian* was appointed President, Gold Bond Building Products Division, succeeding *John P. Hayes* whose added responsibility as a Director and Corporate Group Vice President was recently expanded to include the DMH Division.

TURNER & NEWALL GROUP

Bernard Lincoln will be the first occupant of the newly-created post of Group Environmental Coordinator. At present, he is Director of the Group's Asbestos Fibre Laboratory which he founded 19 years ago. He will assist T&N companies in the United Kingdom to make the best use of all the experience, expertise and facilities that are available both inside and outside the Group on matters concerning environmental control. The scope of his job embraces potential health hazards and nuisances, whether to employees, to customers or to the public at large.

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TEXTILES
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This new development offers

MUCH INCREASED FELT LIFE

MUCH IMPROVED FELT STABILITY
ELIMINATING EDGE TRIMMING
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REPORTS/ARTICLES/DIRECTORIES

U.S. Technical Documents—reports available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22151 [cost per paper copy is indicated at the end of each title; microfiche of each report costs 95¢ per reproduction]: Guide to Technical and Financial Assistance for Air Pollution Control, prepared by Gordian Associates, Inc., New York City [PB 210 670; $5.45]; Manpower Implications of New Legislation and New Federal Programs—Report No. 3 on Utilizing Persons with Engineering Backgrounds in the Health-Related Industries, prepared by the National Planning Association, Washington, D.C. [PB 211 439; $5.45]; Effects of Air Pollution on Public Attitudes and Knowledge, prepared by Oregon State University [PB 212 739; $6.00]; and Model Studies to Determine the Optimum Practical Rearrangement of Timberwork to Ensure Minimum Resistance Values for Rectangular Shafts, prepared by researchers at the University of Idaho [PB 213 717; $3.00].

NASA Tech Briefs—reports of new technology derived from the U.S. Space Program at Marshall Space Flight Center; further information is available from the Technology Utilization Office, National Aeronautics and Space Administration, Code KT, Washington, D.C. 20546: Method of Determining Thermal Conductivity in Multi-Layer Insulation Systems [B72-10154]; Nondestrucive-Test Standards for Evaluation of Fiber-Reinforced Composites [B72-10157]; and Composite Mobile System for Holographic Nondestructive Testing [B72-10351].

Articles Written in German—The Use of Differential-Thermoanalysis and Thermogravimetry for the Characterization (Determination of the Essential Qualities) of Asbestos and Asbestos-Fiber Combinations; Asbestos Paper Coverings for Fuel Cells with Sulphuric Acid Electrolytes; Asbestos in Production and Foreign Trade; International Conference—Physics and Chemistry of Asbestos Minerals; and, Balangero—The Largest European Asbestos Mine. [November 1972 "Gummi Asbest Kunststoffe"; available on loan basis from ASBESTOS]

Buyers' Guide 1972-73—a comprehensive directory of manufacturers in the United Kingdom that supply equipment in the following product groups: extraction and tunneling, roof control, transport, shaft and hoisting equipment, drilling, surface and beneficiation plant (including crushing), safety and illumination, ventilation and dust suppression, control, telemetry and instrumentation, electrical equipment, compressed air equipment, hydraulic equipment, prospecting and surveying, open pit and quarrying, and consultancy services. [Association of British Mining Equipment Exporters, P. O. Box 121, Sheffield, England, S10 2HN]

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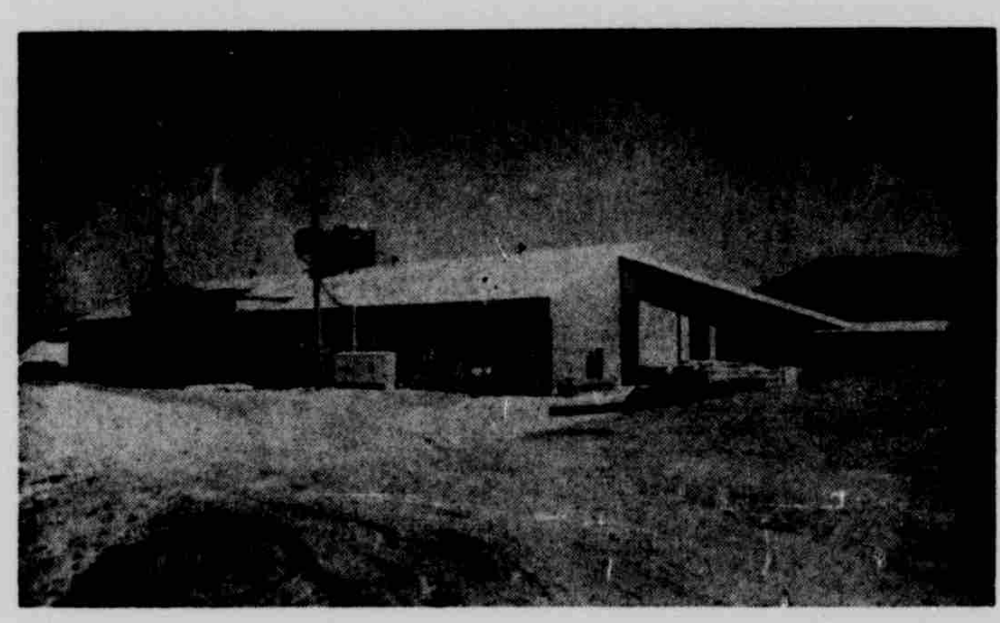
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Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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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 1,291,919—a non-gypsiferous wall plaster comprises 5-50% by weight of natural or pigmented bentonite or other bonding clay, 1-5% of asbestos, glass fiber or powdered pulp fibers less than 2 mm. in length and 50-95% of expanded perlite or exfoliated vermiculite; M. Matsubara, S. Yagyo and S. Takeuchi; assigned to Shikoku Kasei Company Ltd., October 4, 1972; 8 pages.

British 1,294,979—in the preparation of a fiber product of short fiber length and high degree of fiber separation, crude Chrysotile is slurried, the aqueous suspension beaten, the fibers separated by filtering or centrifuging and the separated fibers further shortened first by hammer milling and then by milling in pinned disc mills and/or gas jet mills; G. Turk, K. Achenback and H. Fratzscher; assigned to Deutsche Gold -und Silber-Scheideanstalt vormals Roessler; November 1, 1972; 10 pages.

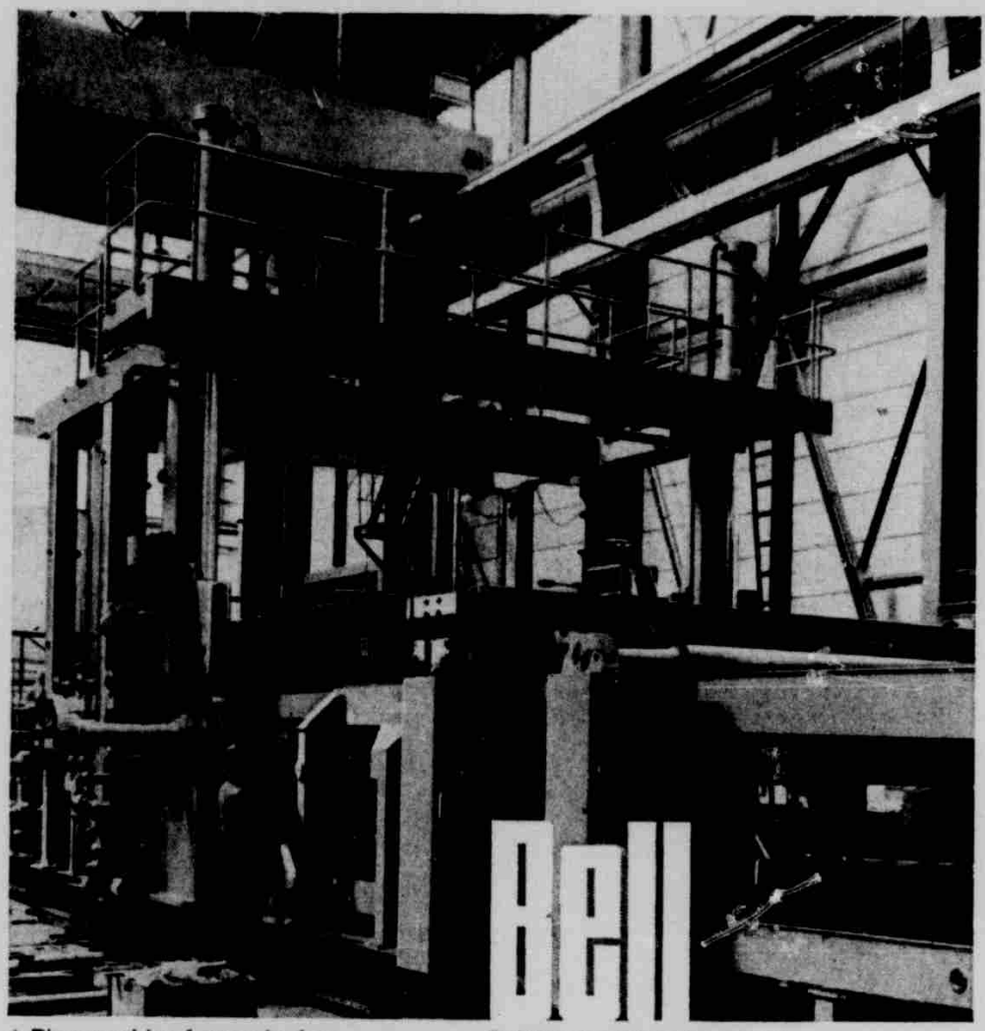
British 1,299,191—in the suppression of asbestos dust, the asbestos cloth or other article is impregnated with natural or synthetic rubber, the solvent or excess water removed and the treated article dried; G. F. Heron; assigned to TBA Industrial Products Ltd., December 6, 1972; 6 pages.

Canadian 914,650—a non-abrasive, thickened lubricating grease which will form a thick, homogeneous, stable grease gel by itself without soap consists of a dispersion of a mineral oil, 0.5-15% by weight of 12-hydroxy stearic acid and 5-40% of colloidal Chrysotile asbestos, preferably asbestos of the type produced near Coalinga, California; A. J. Morway and A. J. Bodner; assigned to Esso Research & Engineering Company, November 14, 1972; 28 pages.

Canadian 914,938—in the cleaning up of an oil slick from the surface of the ocean, the oil is absorbed into particulate asbestos, silica or a mineral silicate, and the absorption mass burned either on the water or after removal to another location; P. R. Tully, W. J. Fletcher and H. Cochrane; assigned to Cabot Corporation, November 21, 1972; 15 pages.

Canadian 916,005—in the manufacture of asbestos tape for electrical insulation use, an asbestos fiber mat is coated with a mixture of

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▲ Pipe machine for producing pressure pipes.

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

Manufacturer of Asbestos Cement Machines

Slurry preparation equipment

Sheet machines
Stamping presses for cutting slates
Stacking presses for high density sheets
Cross conveyors
Corrugators

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

Auxiliary Equipment
Waterring vacuum pumps

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an organic solvent and a reactive siloxane, the mat wiped and then heated to cure the siloxane, and the heated mat cut to desired tape width; A. E. Horning; assigned to General Electric Company, December 5, 1972; 18 pages.

Canadian 916,458—in earth-wall construction, the trench wall is economically stabilized with an aqueous slurry of Chrysotile asbestos, carboxy methyl cellulose and a relatively small amount of bentonite; M. Shinozaki; assigned to Takenaka Komuten Company, December 12, 1972; 15 pages.

U.S. 3,695,763—in a method of determining the drainage properties of asbestos, the fiber is formed into an aqueous slurry, the turbidity of the slurry measured at different times during wet screening, the fines removal rate calculated and a correlation curve indicative of the drainage property drawn; J. C. H. Shiuh; assigned to Johns-Manville Corporation, October 3, 1972; 11 pages.

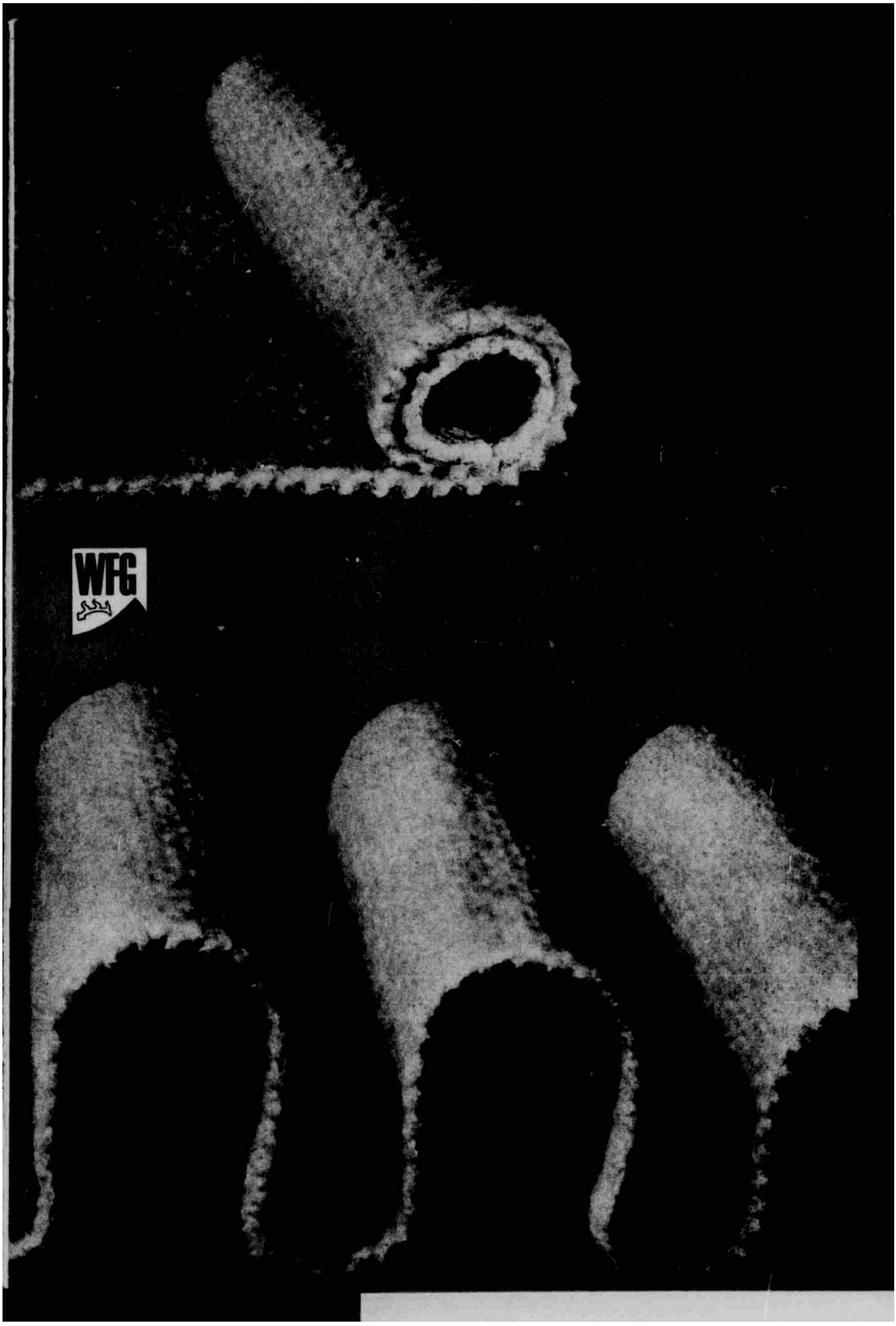
U.S. 3,697,447—a porous body for a catalyst oxidation burner unit for flameless combustion of gaseous hydrocarbon fuels consists of a mixture of asbestos and a ceramic-type refractory fiber, which fiber composite contains a deposited metal catalyst such as platinum; E. R. Bettinardi; assigned to Johns-Manville Corporation, October 10, 1972; 3 pages.

U.S. 3,701,419—in the magnetic beneficiation of asbestos ore, the crushed ore is contacted by steady magnetic fields of first one polarity and then the opposite, the coercivity of each ore piece detected and processed to produce a decision signal, and the pieces deflected in accordance with the decision signals; J. F. Hutter and L. Kelly; assigned to Sphere Investments Ltd., October 31, 1972; 11 pages.

U.S. 3,701,484—in the defiberization of asbestos, aqueous streams of crushed ore are forced through a pair of coaxially aligned opposing nozzles toward one another between a pair of panels forming a narrow zone extending radially outwardly from the axis of the nozzles; H. G. Donovan; assigned to Johns-Manville Corporation, October 31, 1972; 8 pages.

U.S. 3,705,651—a household filter unit for the ultra-purification of "tap water" consists of an inner core filled with activated carbon surrounded by a body of asbestos fiber impregnated with diatomite and a final outer layer comprising solely diatomite; organic and micropollution materials in solution are removed from the water by adsorption on the activated carbon; S. H. Klein; December 12, 1972; 4 pages.

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100% Synthetic
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Custom made for your asbestos cement pipe- and sheet production.
Designed for a longer life and a higher quality product. Your enquiries are appreciated.
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D. Geschmay GmbH
7320 Göppingen, P.O. Box 460
Telephone (07161) 21042
Telex 0727734 West Germany

CALENDAR OF EVENTS

ASTM MEETINGS—Committee C-17 on Asbestos-Cement Products, Akron, Ohio, *May 22-24;* Committee C-24 on Building Joint Sealants, Williamsburg, Virginia; *June 17-19;* 76th Annual Meeting and Exposition and conclusion of Anniversary Celebration, Philadelphia, Pennsylvania, *June 24-29.*

INOVA 73—First Design Engineering Show in Europe; chartered by the French Ministry of Industrial and Scientific Development; Porte de Versailles, Paris, France; *June 2-8.*

MINERALS AND THE ENVIRONMENT—Symposium sponsored by The Institution of Mining and Metallurgy with the cooperation of the Institute of Quarrying and the Institution of Mining Engineers; to be held at the Institution of Electrical Engineers, London, England; *June 4-7.*

UNIVERSITY OF WISCONSIN-EXTENSION—Courses scheduled at the Madison campus unless otherwise noted: How to Improve Your Operations With Systems Design, *June 4-8;* Packaging/Recycling Materials, *June 5-6;* Tradeoffs in Industrial Pollution Control in Industrial Finishing Operations, *June 7-8;* Injection Molding Die Design (Milwaukee), *June 11-15;* Product Noise Control By Design, *June 18-19;* Biomedical Instrumentation, *June 18-22;* Planning, Designing and Implementing Cooperative-Areawide Solid Waste Management Systems, *June 26-27;* Fire Protection, Prevention and Control in Industry, *June 26-27.*

POLLUTION CONTROL CONGRESS—Earls Court, London, England; *June 5-8.*

MINING AND METALLURGICAL INSTRUMENTATION—Symposium Exhibit and Second Annual Meeting; Royal York Hotel, Toronto, Ontario; *June 11-13.*

PLANT ENGINEERING AND MAINTENANCE—Annual Conference, American Institute of Plant Engineers; Convention Center, Los Angeles, California; *June 12-14.*

FLUID SEALING ASSOCIATION—Meeting in the Chicago area; Pheasant Run, Illinois; *June 14-15.*

INTERNATIONAL UNION OF INDEPENDENT LABORATORIES—7th General Assembly (will discuss pensions, liability and indemnity and environment and pollution); Wiesbaden, Germany; *June 18-20.*

EMBAX BRNO '73—International Packaging Engineering; Fair Grounds, Brno, Czechoslovakia; *June 25-29.*

SAMPLING IN THE MINERAL AND METALLURGICAL PROCESSING INDUSTRIES—Meeting of the Institution of Mining and Metallurgy; Imperial College, London, England; *June 28.*

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ASBESTOS FIBRES

Asbestos Magazine, 1973, April 1973
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Remember When?

(April 1923 ASBESTOS)

ASBESTOS reported the death of Berthold Marcuse on March 3, 1923, in its March issue. In the April 1923 issue appeared a short biography of Mr. Marcuse with particular reference to his pioneering activities in the Canadian asbestos industry. He was survived by a son, Bernhard Marcuse, who was for many years active in the industry in the United States and Canada.

A comprehensive article on "Asbestos In Electrical Products," by B. S. Beach of the General Electric Company, appeared in this issue.

John A. Dresser, well known in the Asbestos Industry as a geologist, was elected President of the Canadian Institute of Mining and Metallurgy.

General Charles Miller of Franklin, Pennsylvania, was appointed temporary receiver of the Franklin Manufacturing Company, manufacturer of 85% Magnesia insulating materials, which was going into bankruptcy.

It was reported that The Cape Asbestos Company Ltd. had completed negotiations for the purchase of the lease of an important Blue asbestos producing property known as Keikamspoort, situated in the Prieska District, Griqualand, Cape Colony, quite close to properties already owned by Cape Asbestos. The property had previously been worked by the Carn Brea Asbestos Syndicate. This purchase resulted in Cape Asbestos holding practically all properties capable of producing the best quality Blue crude, as distinct from the soft variety produced in the Kuruman District.

The Asbestos Brake Lining Association continued its pioneering efforts to make inspection of automobile brakes mandatory. One approach was to urge that issuance of operators' licenses and insurance against public liability be made contingent upon certification by a qualified service station that the vehicles' brakes were in good working condition. Much of this activity resulted from a rapid increase in auto accident fatalities which reached 12,000 in 1922.

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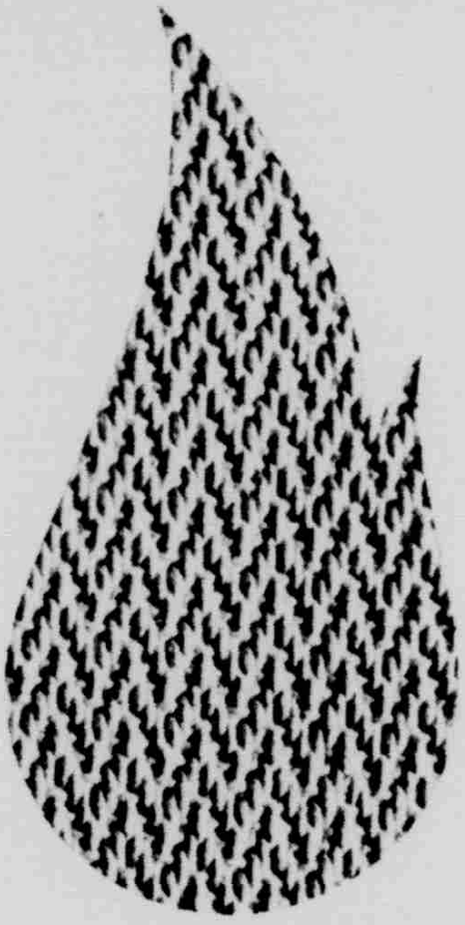
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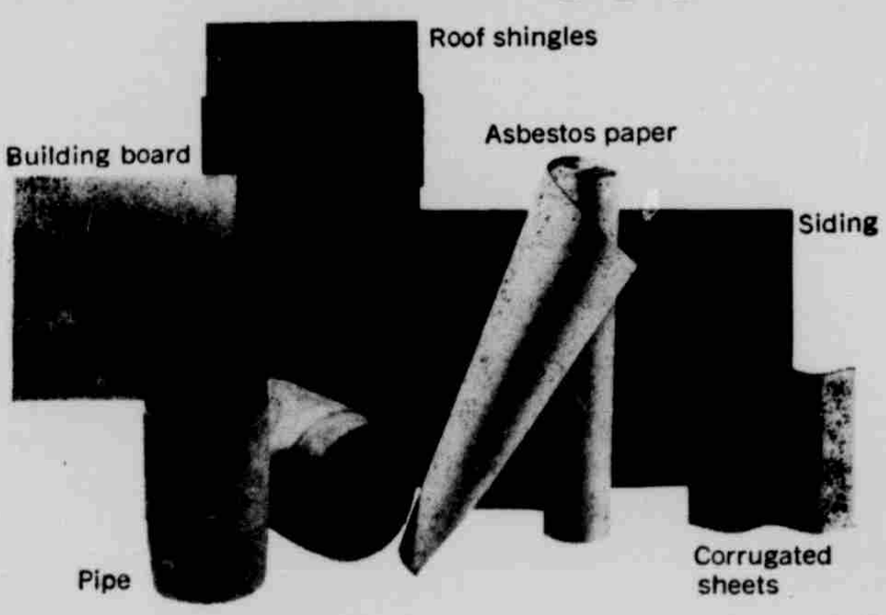
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