June 1972

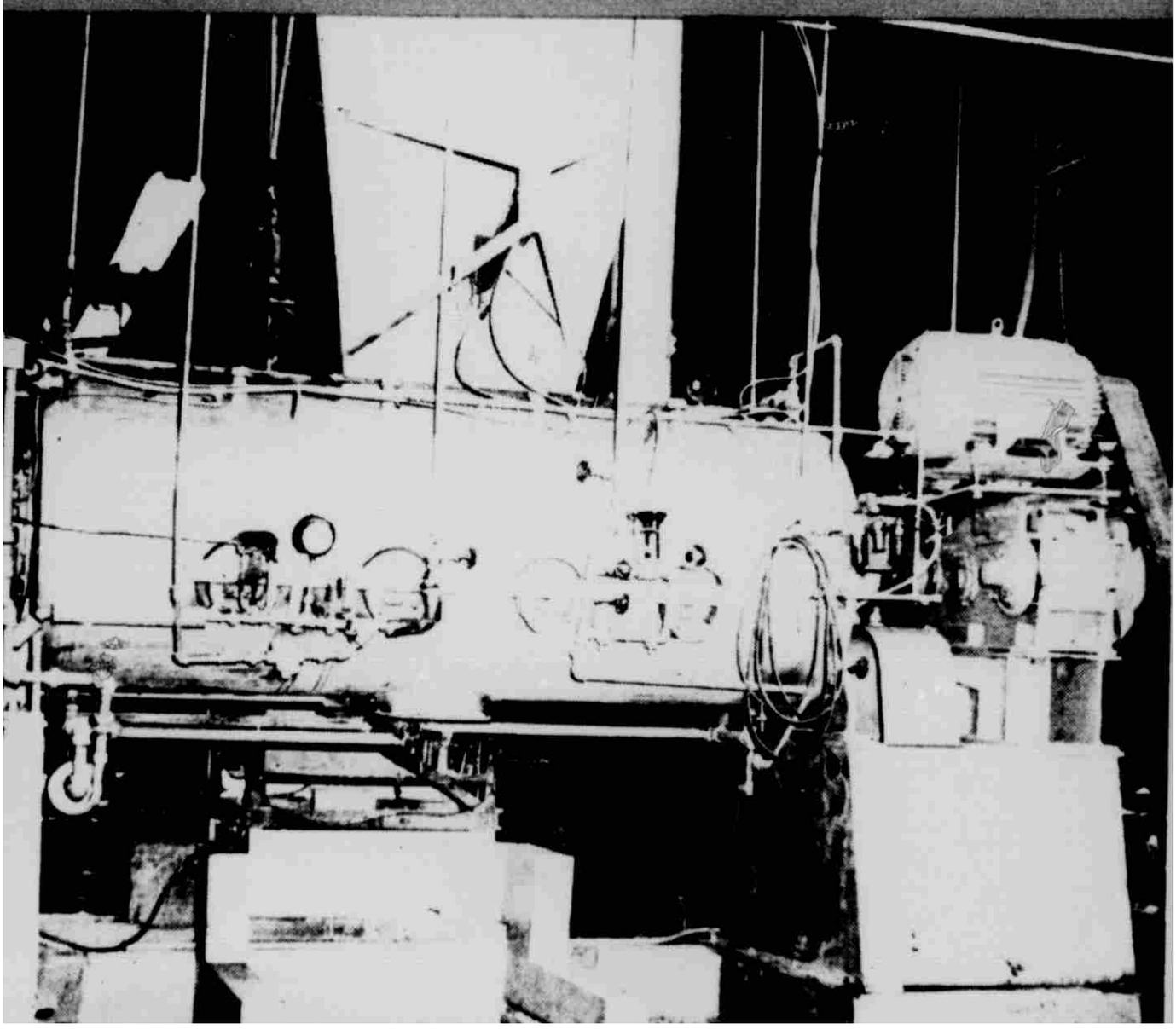
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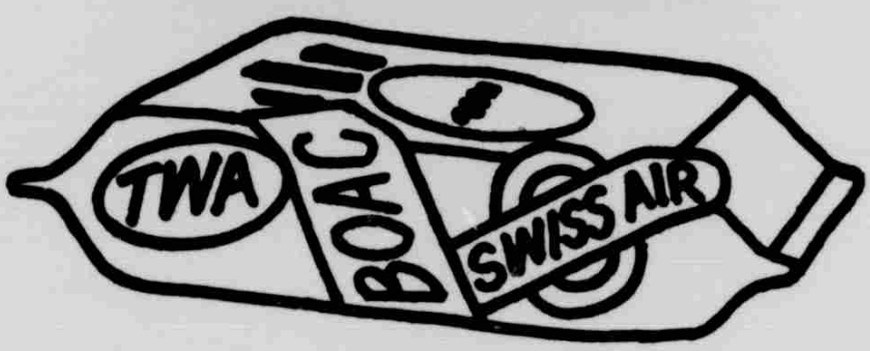
Littleford FKM Mixer

ASTM Role in U.S. Asbestos Textile History



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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XXV: American Society for Testing and Materials

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

American Society for Testing and Materials was born June 16, 1898, as the American Section of the International Association for Testing Materials. The proposed By-Laws of the American Section were submitted for approval at the First Annual Meeting held August 27, 1898, marking 1973 as the 75th Anniversary Year of the Society. Officially the 75th Diamond Jubilee year begins June 1972, with the grand finale scheduled for June 24-29, 1973, at the 76th Annual Meeting to be held in Philadelphia, Pennsylvania, where ASTM was born, chartered and has always had its headquarters.

This "History of the Asbestos Textile Industry in the U.S." would not be complete without proper mention of the role played by the American Society for Testing and Materials in the development and stabilization of the U.S. asbestos textile industry. Prior to 1925 each asbestos textile manufacturer sold its own products, backed by its own warranty. The determination of acceptable quality standards for asbestos textile products was a matter of agreement between buyer and seller. It would not be difficult to visualize the endless and largely needless variation in product under so casual a system.

It was no doubt a sign of maturity in the industry when in 1925 a group of executives decided it would be desirable to establish acceptable industry standards to define specific asbestos textile products. They logically turned to ASTM for guidance. The Society had already accomplished the desired standardization for most other branches of the textile industry.

The members of the original ASTM Sub-Committee XVI on Asbestos Textiles, serving in 1925 and 1926, were: Chairman, S. R. Slaymaker of U.S. Asbestos Company, H.

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Asbestos

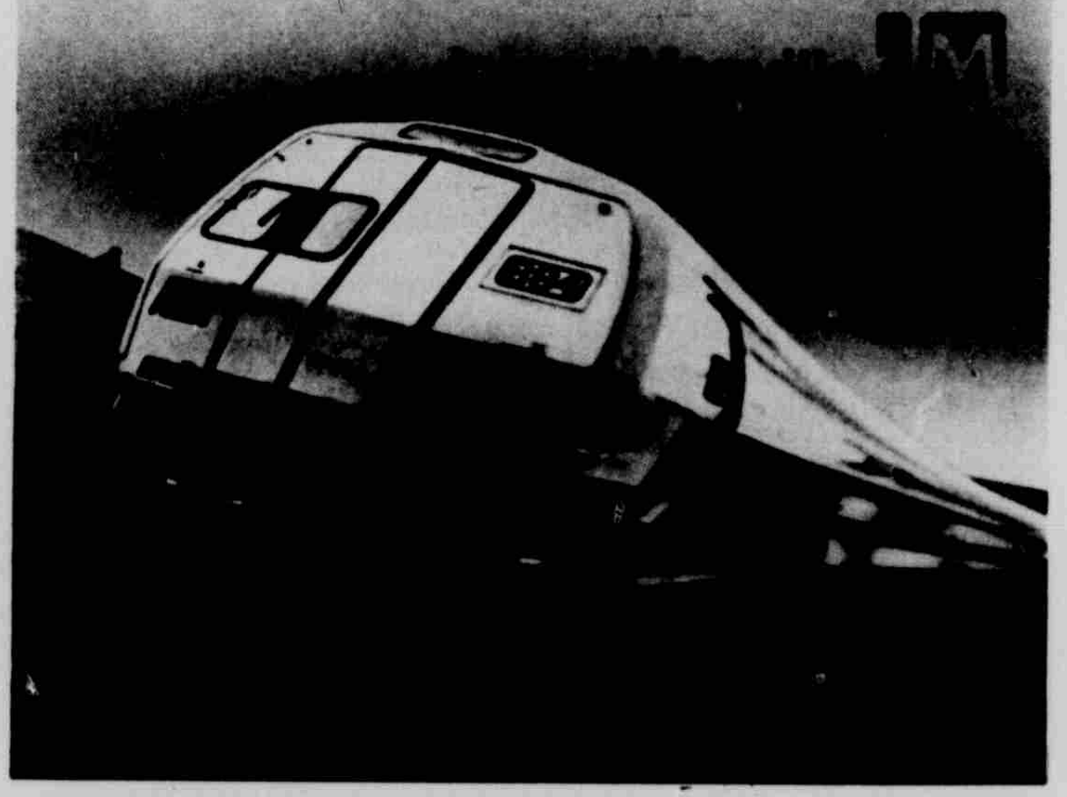
Vital at all the stops along the way.

At speeds of up to 100 mph, Amtrak's New York-Washington, D.C. Metroliner needs all the stopping power it can get. So hard-working asbestos is used in the brake shoes on this cannonballing express.

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E. Bishop of U.S. Testing Company, Dean Harvey of Westinghouse Electric Corporation, Morton F. Judd of The Raybestos Company, W. H. Moore of General Electric Company, W. H. Morris of Keasbey & Mattison Company, and C. W. Robbins of Western Electric Company. (Mr. Slaymaker was then President of U.S. Asbestos, Manheim, Pa., and of the Slaymaker Lock Company, Lancaster, Pa.)

Over the years, more than 100 industry executives and technicians have contributed their time and talent to Sub-Committee A-4 on Asbestos Textiles, part of ASTM Committee D-13 on Textile Materials. The following Chairmen of Sub-Committee A-4, now designated as Sub.D13.14 [A-4 on Asbestos], deserve special recognition for long periods of service to the industry: Jesse M. Weaver, Raybestos-Manhattan, Inc., from 1927-1936; Fred S. Mapes, General Electric, from 1937-1954; and Paul J. Nicodemus, General Electric, from 1954 to the present.

The establishment of mutually-acceptable standards for asbestos textile products was a slow process as will be seen from the following table of adopted Specifications and Methods of Test:

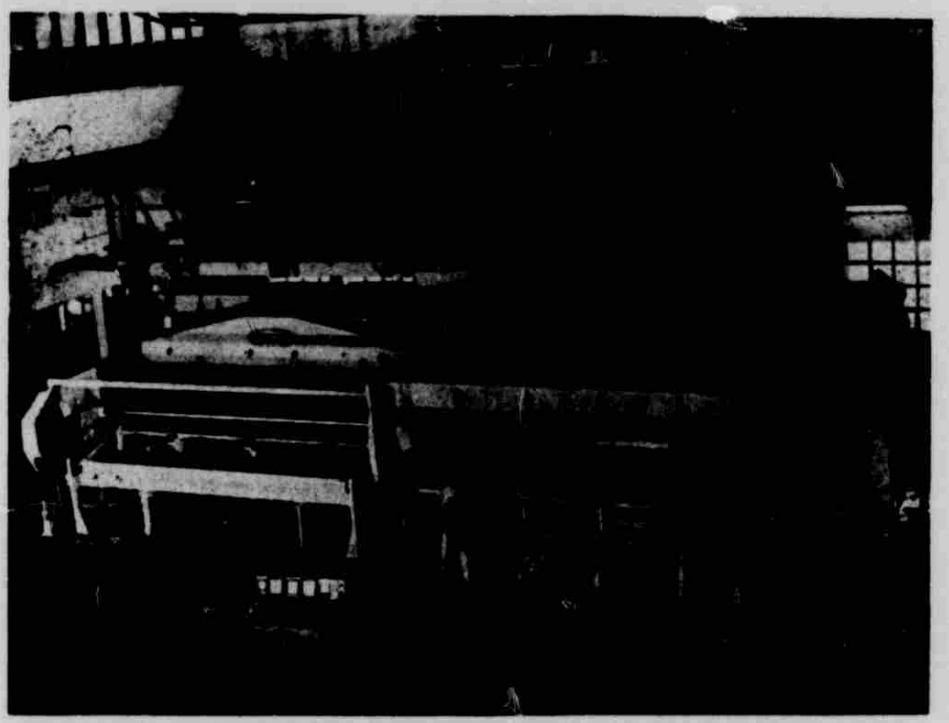
ASTM SPEC OR TEST METHOD	PRODUCT	YEAR FIRST ISSUED
D 299-60	Asbestos Yarn	1928
D 315-67	Woven Asbestos Tapes	1929
D 375-59	Asbestos Roving	1933
D 628-52	Asbestos Tubular Sleeving	1941
D1061-58	Asbestos Lap	1949
D1118-57	Test for Magnetic Rating	1950
D1571-67	Woven Asbestos Cloth	1958
D1918-67	Asbestos Content of Textiles	1955
D-2100-66T	Asbestos Textiles Used for Electrical Insulation	1962

For the past several years the updating of ASTM Standards for asbestos textile products has been under the supervision of Chairman Paul Nicodemus and Paul J. Smith, Secretary of ASTM Committee D-13. Mr. Smith currently represents ASTM at the Asbestos Textile Institute conferences. Messrs. Smith and Nicodemus have effectively coordinated the efforts of ASTM Committee D-13 and the ATI

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Technical Committee in the rewriting of the ASTM asbestos textile standards.

John D. McCluer, retired from H. K. Porter Company, Inc., and a former Chairman of the ATI Technical Committee, is responsible for much of the effective accomplishments of ASTM Sub-Committee A-4. John W. Hawkins, of Raybestos-Manhattan, who had served as Chairman of the ATI Technical Committee from 1967 until October 1971, and his successor, J. W. Echerd, of H. K. Porter, also worked closely with the ASTM Sub-Committee.

All asbestos textile manufacturers owe a great debt of gratitude to the American Society for Testing and Materials for the patient manner in which it has supervised and coordinated their efforts to achieve acceptable industry standards.

Next and Final Chapter . . .

Asbestos Textile Institute

THE COVER

A Littleford Mixer used by Raybestos-Manhattan, Inc., in its Stratford, Connecticut, plant in the manufacture of brake linings. The various raw materials are weighed into a stock container which is then transported to the skip hoist mounted at the Littleford. The skip hoist is used to charge the mixer which is then cycled automatically by a series of timers and temperature sensing devices. The mixer is jacketed and both water and steam are used to adjust the batch temperature as required. At the end of the mixing cycle the stock is emptied into a stock can and held for further processing. This mixer is one of several Littleford units used by Raybestos-Manhattan. A description of the Littleford FKM Mixer appears in this issue, beginning on page 8.

[PHOTOGRAPH CONTRIBUTED THROUGH THE COURTESY OF RAYBESTOS-MANHATTAN, INC., BRIDGEPORT, CONNECTICUT]

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LITTLEFORD MIXERS
Brake Lining Breakthrough

Most brake linings have certain basic ingredients in common—asbestos and other fibers, metal and ceramic powders, and resins. Like a good cake, it's how the ingredients are proportioned and combined that make as much difference in the final product as the ingredients themselves.

Until recently it has taken up to half a dozen different pieces of equipment to do the combining. Now, most of the major manufacturers of brake linings in the United States have adopted the Littleford FKM Mixer to replace the several pieces of equipment formerly employed in dry and wet mixing processes.

The Littleford FKM Mixer performs all the mixing functions in a single piece of equipment: a horizontal drum vessel which combines the low-velocity action of mixing "plows" driven by a central horizontal shaft, and the high-velocity action of "choppers" driven by individual motors. Littleford FKM Mixers can be equipped for batch or continuous operation.

Actually the term "mixer" is a misnomer. In processing brake lining materials these machines perform deagglomerating, dispersing, heat transfer, coating and homogenizing functions.

The plow-shaped mixing impellers impart hurling and whirling action to the materials. The effect is a pulsating fluidized bed which separates or "individualizes" the materials. The action is fast and thorough. It overcomes the difficulties of mixing materials of widely varying physical shapes and densities: for example, blending very light and short fiber asbestos uniformly with fine but dense metal particles and light organic powders.

The "hurling and whirling" action described above has the additional effect of speeding heat transfer, exposing tremendous surface area and moving materials to and from the external heat transfer surface. It is possible with the Littleford Mixer to control the temperature of brake lining materials during the mixing cycle to plus or minus 2°F, advancing or retarding the cure of the binders at a predetermined rate.

The action of the choppers on dry lining formulations is to open the asbestos fibers, making them more receptive to

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NEWS FOR ASBESTOS-CEMENT MANUFACTURERS

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additives, and dispersing and impinging dry adhesives throughout the asbestos. This action requires 5 to 10 minutes of mixing. On wet formulations, the high-speed blending choppers uniformly disperse viscous phenolic binders without forming undesirable lumps.

In a typical brake lining process stream before the Littleford Mixer came into use, it was not unusual to see first a willower to open the asbestos fibers before blending. Then a dry solids blender would be employed to reach a satisfactory degree of uniformity. Next would be a heavy-duty "sigma blade" mixer in which the liquid binder was added. Since the discharge from the sigma blade mixer often contained large agglomerates of resin-rich material, a post-milling operation was commonly used to disperse the binder. And finally, a homogenizing blender was often needed following the continuous mill.

In addition to reducing the amount of capital equipment and floor area required for mixing, the Littleford FKM Mixers are of great benefit in quality control. With numerous pieces of equipment in the process stream, batch-to-batch uniformity can be a real problem; with the Littleford Mixers, uniformity is the norm, once ingredients and mixing time have been standardized.

WRITE — WHY NOT?

There are among our readers those who have a flair for writing and who are in position to know of unusual developments within the Asbestos Industry. Send us your items! We review all material received and perhaps the "uniqueness" of your story will prompt us to "put it in print."

Opportunities for A/C PIPE PERSONNEL

Our continuing expansion has created openings for Pipe Plant Managers, Production Superintendents, and Plant Engineers. Some positions open now with future opportunities for applicants with experience to enroll in our training program. Reply in complete confidence to:

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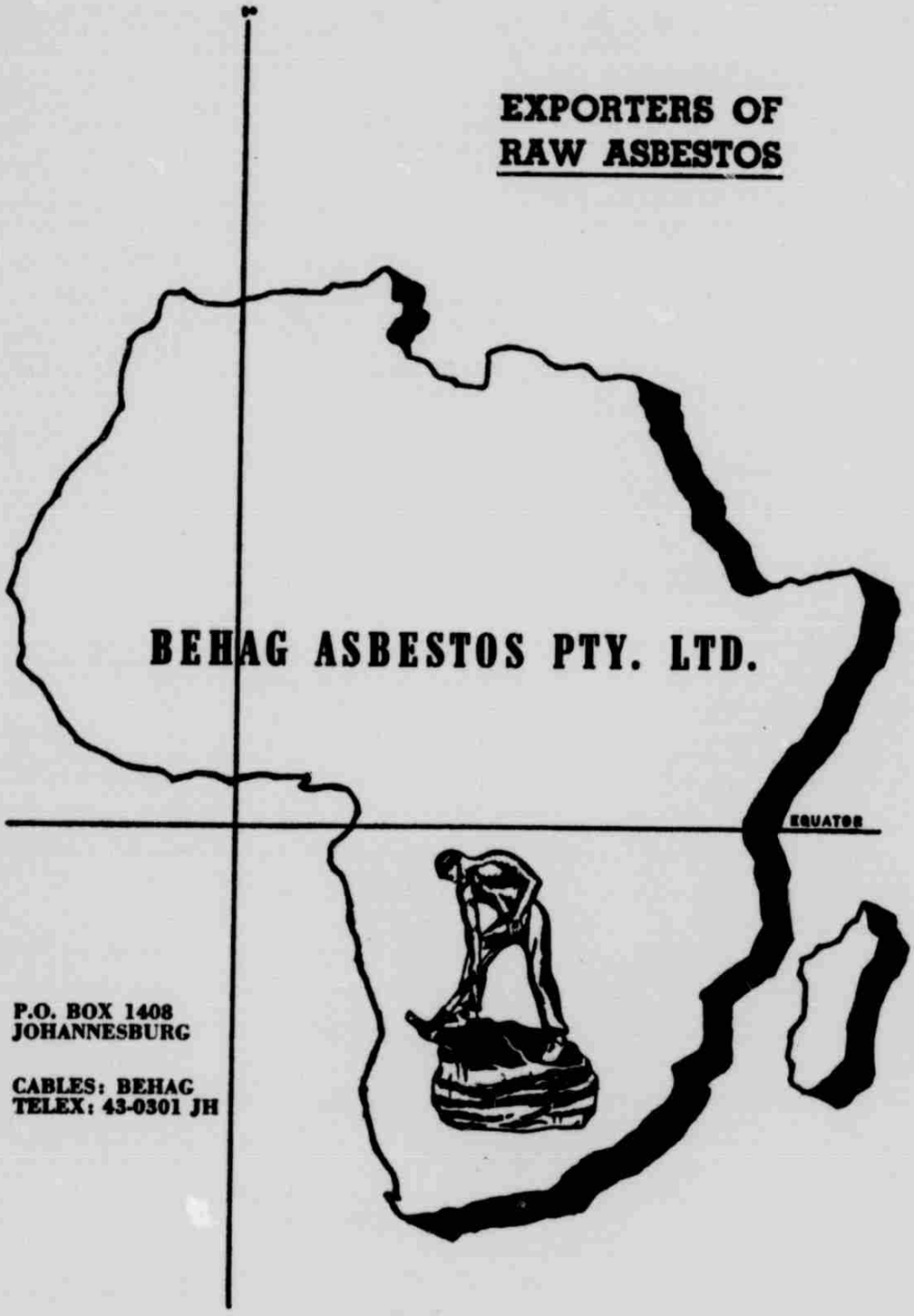
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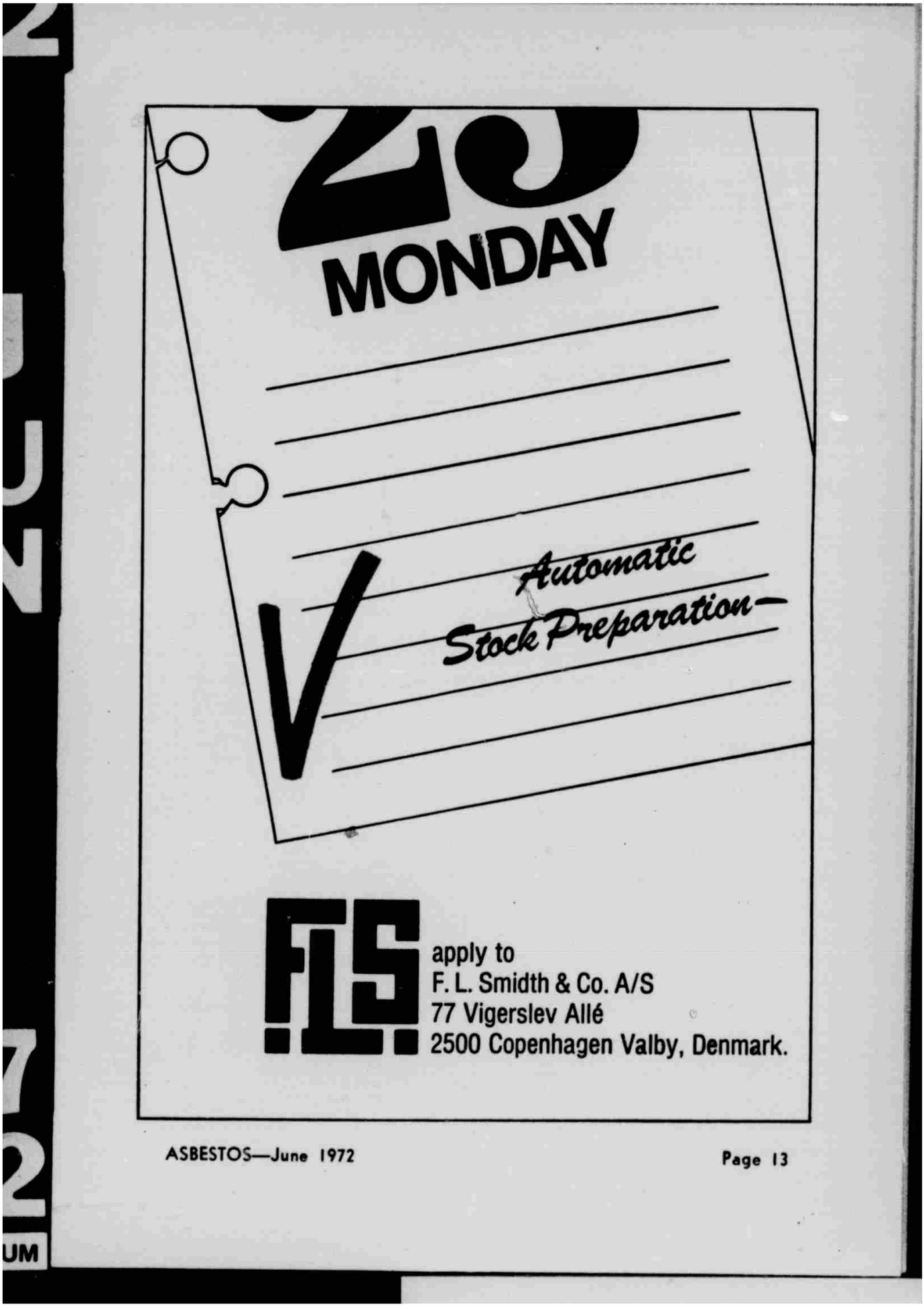
A major worldwide congress on pollution engineering, coupled with an international exposition of pollution control equipment will take place at the Public Hall, Cleveland, Ohio, from December 4 through 7, 1972. More than 20,000 people from over 30 countries are expected to participate in the event, which is the first in a projected annual series of like events. Papers presented to the congress and exhibits at the show will be directed both to industry and to governmental officials. James O. Rice Associates has been retained to develop conference topics and to invite speakers from around the world. Those who wish to be kept informed about the program should write to the producers, Clapp & Poliak, Inc., 245 Park Avenue, New York, New York 10017.

GUIDE TO ASBESTOS SAFETY

The Asbestosis Research Council (ARC) has issued a new Control and Safety Guide, No. 9, on "The Cleaning of Premises and Plant in accordance with the Asbestos Regulations." Recommended procedures for cleaning factory buildings and for keeping plant and equipment clean and free of dust are outlined. The booklet also reviews various types of fixed and portable vacuum cleaning equipment and contains advice on selection of the most suitable equipment for different requirements. Lists of suppliers of vacuum systems whose equipment has been found to be suitable for the handling of asbestos dust are included. ARC is supported by BBA Group Ltd., The Cape Asbestos Co. Ltd., Gefco Ltd. and Turner & Newall Ltd.

ASBESTOS welcomes the following new advertiser:
Frankfurter Aussenhandel
page 41

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MARKET CONDITIONS

GENERAL BUSINESS

General business, as measured by generally recognized yardsticks, is improving at an increasingly rapid pace. While unemployment continues high, practically all other statistics are pushing upward at rates which, if continued, could make 1972 a very good year, economically speaking.

As this is written, President Nixon is still in Russia and, on May 26, signed the U.S.-Soviet agreement on the limitation of strategic armaments. This is being hailed by many as the greatest achievement of the Nixon administration although critics have been quick to point out the loopholes which are bound to be a part of any such treaty. The general feeling seems to be that regardless of its weaknesses this pact is better than none at all and it can serve as a jumping-off point for improved relations between the two countries in many areas other than those of armaments. It is expected that the establishment of a joint commission to promote mutually advantageous trade relations between the U.S. and the Soviets will lead, rather quickly, to increased trade between the two nations. Of course, the Russians' insistence on doing business on credit at extremely low interest rates presents a stumbling block but that is the reason a joint commission may well be necessary to work out deals which will, in fact, amount to "even-Steven" swaps of goods and services, thus eliminating the need for large credits or currency exchanges on the part of the nations involved. As we see it, any treaty is only as good as the intentions of the parties to it and, in this case, with both parties recognizing the fact that nuclear war could have a devastating effect on all mankind, the intentions of both nations must be considered sincere and honorable.

Have you ordered your copy of "The Asbestos Factbook"?

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OUR 25TH YEAR

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CONSTRUCTION NEWS

APRIL 1972 recorded the start of more new construction work than in any prior month on record as the value of construction contracts totaled $8,100,225,000, 6% over April 1971.

A total of $1,947,130,000 in *nonbuilding* construction was contracted in April, 21% short of last April's record amount. Electric generating projects accounted for most of the difference. Highway construction work slackened but sewer and water projects continued to show a strong lead over last year.

The total value of *nonresidential* building contracts was $2,181,849,000, a 6% gain over the year-ago amount. Commercial buildings and health facilities showed the largest gains, with industrial construction registering a small gain and schools and public buildings declining.

Residential building contracts, valued at $3,971,246,000, were ahead by 27% over last April. As was expected, the changing pattern of construction demand is beginning to firm up and industrial contracts should gather momentum during the second half of the year.

Cumulative construction contract value for the first four months of 1972 totaled $27,144,191,000: Nonbuilding, $6,390,158,000, down 5%; Nonresidential, $7,865,932,000, up 4%; Residential, $12,888,101,000, up 39%. The four-month total was 15% ahead of the same period in 1971. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

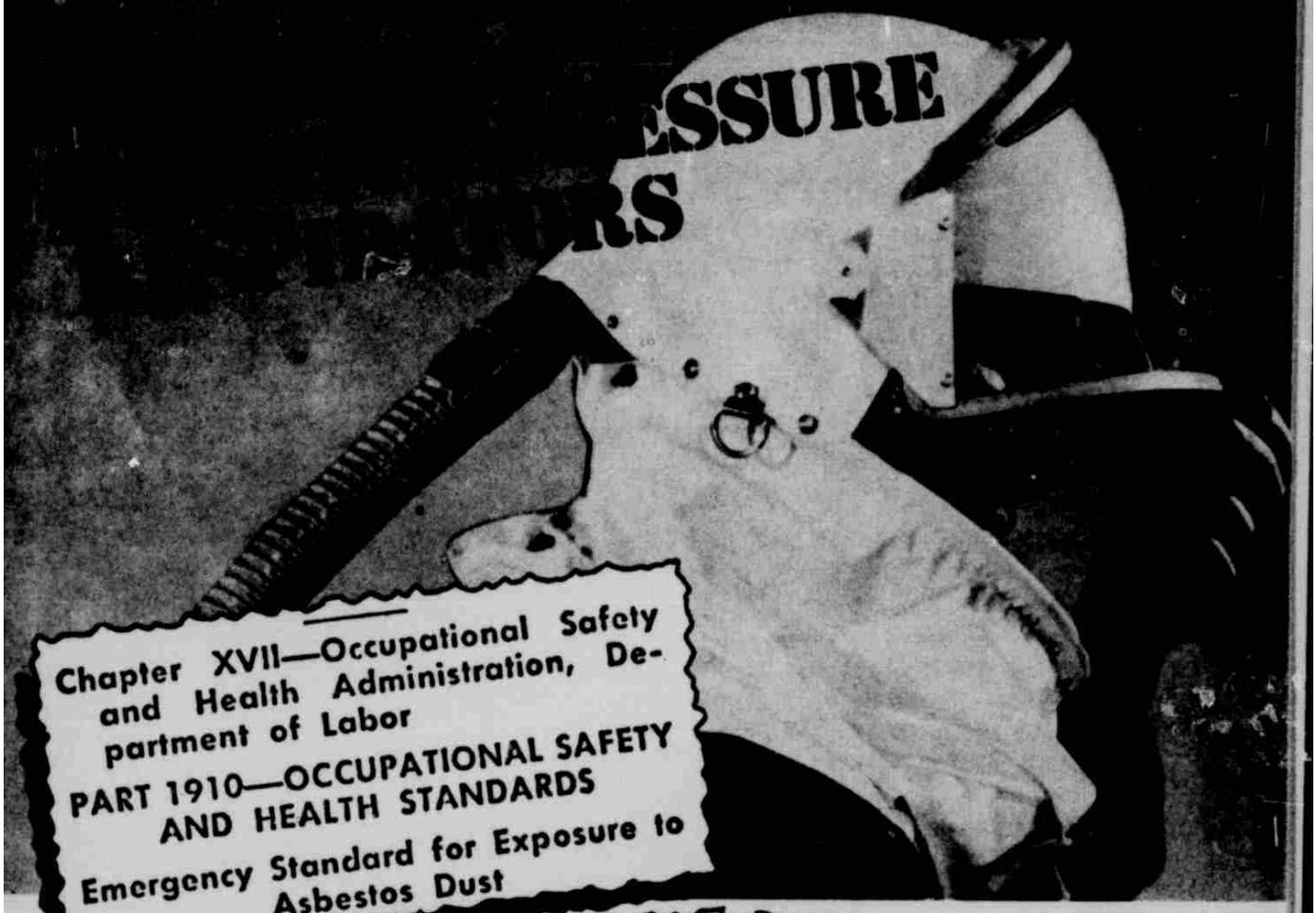
MARCH 1972 motor vehicle factory sales from plants in the *United States* totaled 1,038,336 (passenger cars—806,548; trucks and buses—231,788). The cumulative total for the First Three Months of 1972 was 2,881,794 compared with 2,839,978 for the same period in 1971.

Motor vehicle factory sales from plants in *Canada* totaled 136,467 in March 1972. The accumulated total from January-March 1972 was 376,412 against 353,340 for the like period in 1971. [Automobile Manufacturers Association]

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NOW REQUIRED, BY FEDERAL SAFETY REGULATIONS, FOR ASBESTOS WORKERS:

(FEDERAL REGISTER, VOL. 36, NO. 234 — DECEMBER 7, 1971)



Chapter XVII—Occupational Safety and Health Administration, Department of Labor

PART 1910—OCCUPATIONAL SAFETY AND HEALTH STANDARDS

Emergency Standard for Exposure to Asbestos Dust

(3) For an atmosphere containing not more than 250 fibers per millilter greater than 5 microns in length over an 8-hour average, or more than 500 fibers per milliliter over any period of 15 minutes, a powered filter positive pressure respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 14 (Bureau of Mines Schedule 21B) shall be used.

THE ONLY SYSTEMS THAT MEET THIS SPEC.- ARE ELECTRIC-POWER RITE WHITECAP HELMET SYSTEMS!

(4) For an atmosphere containing more than 250 fibers per milliliter greater than 5 microns in length over an 8-hour average a type C positive pressure supplied-air respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 12 (Bureau of Mines Schedule 19B) shall be used.

...AND RITE WHITECAP COMPRESSED-AIR SYSTEMS MEET THIS ONE!

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PRODUCTION—IMPORTS—EXPORTS

Cyprus—Production of asbestos for the *First Quarter of 1972* totaled 6,472 short tons valued at £400,000, an increase over the production figure for the first three months of 1971 which amounted to 4,884 tons valued at £278,390. [Ministry of Commerce & Industry, Mines Department, Nicosia]

Canada—Production of vinyl-asbestos floor tile during the *First Quarter 1972* totaled 46,579,494 square feet (21,425 tons), compared with the revised figures of 41,641,865 square feet (20,002 tons) for the first three months of 1971. [Statistics Canada]

Canada—Producers' shipments of asbestos during *February 1972* totaled 114,873 short tons (89,998 tons from plants in Quebec and 24,935 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for February 1971 was 98,311 tons . . . *March 1972* producers' shipments amounted to 138,647 tons compared with 131,891 tons in the previous March. The figure for the latest month includes 104,376 tons from Quebec plants and 34,271 tons from plants in the other four Provinces . . . The cumulative total of producers' shipments for the *First Quarter 1972* was 357,768 tons (280,298 tons from Quebec plants and 77,470 tons from the remaining plants). The total for the first three months of 1971 reached 329,765 tons. [Statistics Canada]

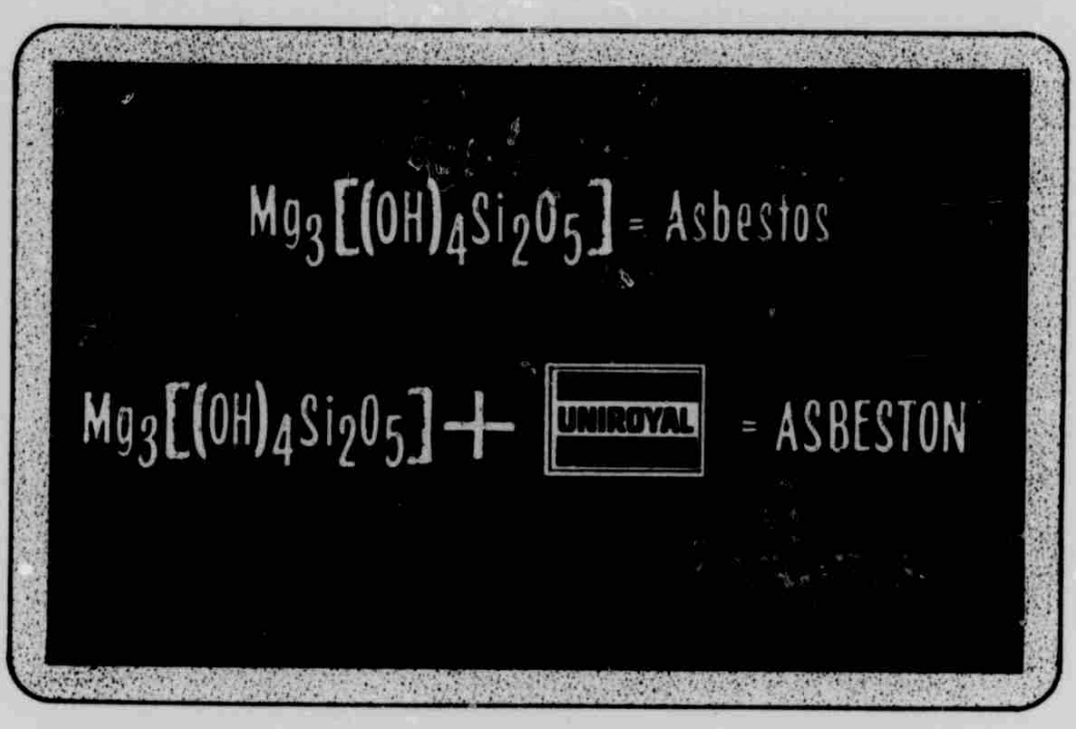
U.S. ASBESTOS INDUSTRY SURVEY

According to the U. S. Bureau of Mines' annual preliminary Mineral Industry Survey, production of asbestos in the United States in 1971 was 5% greater than in 1970 and the value was up 14%. Total production of Chrysotile and Anthophyllite was 132,000 short tons, valued at $12,406,000. The average value per ton rose from $85 in 1970 to $94 in 1971. Apparent consumption totaled 757,000 tons, 4% above the previous year, reflecting a minor upturn in construction activity.

Based on imports for six months, South Africa supplied 17,600 tons of Crocidolite and 6,600 tons of Amosite. Canada continued to be the major supplier of asbestos consumed in the U.S.

Although asbestos is used to produce thousands of different products, about 70% is consumed in the production of asbestos-cement construction products, followed by 7% incorporated in floor tile and 3% used in the manufacture of paper products.

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Chances are we already make a yarn or fabric you need. But if you've come up with a new idea let us engineer materials to your specification. We're always looking for new ways to put Asbeston to work.

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		JANUARY 1972	
Amosite, South Africa	s. tons	481	$ 80,342
Crocidolite, Bolivia	s. tons	29	2,966
South Africa	s. tons	283	60,509
Chrysotile, Crude, South Africa	s. tons	90	20,811
Chrysotile, Spinning Fibers, Canada	s. tons	941	418,402
Chrysotile, Other, Canada	s. tons	52,467	6,243,584
Other Crudes & Fibers, Canada	s. tons	607	71,086
Finland	s. tons	387	26,109
Greece	s. tons	6	1,361
		55,291	$ 6,925,170

Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	338,024	$ 316,645
A-C pipes, tubes and fittings	Lb	3,828,863	172,030
A-C articles, other	Lb	2,008,184	291,325
Asbestos articles, other		..	196,532
			$ 976,532

BY POPULAR DEMAND!

Beginning with the next issue, ASBESTOS will list *monthly and cumulative* statistics for U.S. Imports, U.S. Exports and Canada Exports. From a survey of eleven companies, ten responded—and the result was "unanimous" that both monthly and cumulative figures would be much more useful than would monthly statistics only, as had been this magazine's policy in the past. We hope all of our readers find this new method of greater value.

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MASSACHUSETTS, Allston
D. H. Litter & Co., Inc.

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

NEW YORK, New York
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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

JANUARY 1972

Unmanufactured Asbestos:			
Fibers not further processed than beaten, washed or graded to length	s. tons	3,040	$ 300,424
Waste and refuse	s. tons	442	58,548
		3,482	$ 358,972
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,744,126	$ 177,119
Other a-c or fiber-cement articles	Lb	827,352	92,783
Gaskets	Lb	71,648	111,512
Packing	Lb	376,453	590,360
Heat or sound insulation		..	188,981
Textiles and yarns	Lb	2,303,841	403,574
Protective clothing		..	29,933
Mfrs. other than friction materials		..	262,842
Cl. facings and linings for auto. use	No	387,756	289,096
Other clutch facings and linings	No	166,847	59,317
Brake linings for automotive use	Lb	604,290	439,893
Other brake linings	Lb	238,468	176,508
			$ 2,821,918

EXPORTS FROM CANADA

Figures from Statistics Canada

JANUARY 1972

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	3	1,411	13,316	8,169
Eastern Europe	..	50	5,616	50
Middle East	..	..	1,150	588
Africa	..	..	690	135
Asia	..	526	9,483	20,480
Oceania	..	..	6,273	264
So. & Cen. America & Antilles	..	38	8,955	3,201
United States	1	1,298	15,137	35,055
	4	3,323	60,620	67,942

The total amount of unmanufactured asbestos exported in *January 1972* was 131,889 short tons, valued at $19,901,000.

Manufactured Asbestos Goods:	
Brake linings and facings	$ 41,000
Asbestos-cement building materials	160,000
Other basic products	181,000
	$ 382,000

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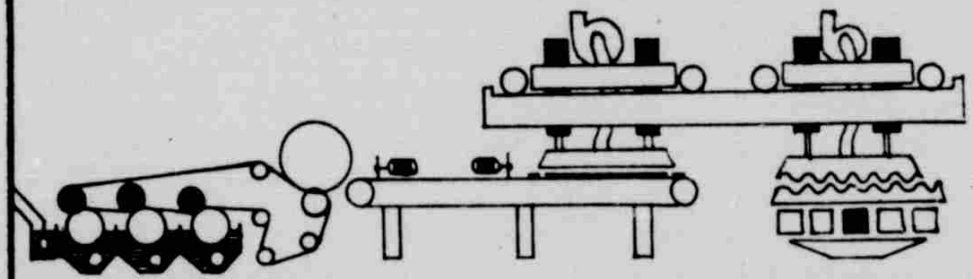
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Part 12: Economic Factors/Prices & Costs

Asbestos has had an erratic price history but since 1965 the prices have been quite stable. Prices for Vermont and Canadian asbestos increased about 5% in 1967. Quebec Chrysotile fiber prices in 1968, f.o.b. mine, ranged from Canadian $45 per ton for 7T, the shortest of the regular grades generally produced, to $700 for the longest of the milled fibers. Crude No. 1 from Canada was quoted at $1410 per ton.

Vermont Chrysotile is produced in grades similar to those in Canada and ranged in price in 1968 from $41.50 per ton for Group 7 to $342 per ton for Group 3, f.o.b. mine. Arizona fibers ranged in price from $65 per ton for Group 7 to $1650 per ton for the highest Grade No. 1 Crude, f.o.b. Globe, Arizona.

Prices quoted for Amosite, f.o.b. U.S. ports in 1968, ranged from $130 per ton to $220. Crocidolite prices ranged from $180 per ton to $470 per ton.

The total value for the 120,690 tons of asbestos produced in the United States during 1968 was $10,406,000, an average of $86.22 per ton, f.o.b. mine. The imports of asbestos for consumption were valued at $73 million. The value placed on U.S. demand for 1968 was $79 million. Assuming that the proportions of various grades produced remain the same, the price in terms of 1968 constant dollars is expected to increase to $100 per ton by the year 2000.

Part 13: Economic Factors/Taxes & Tariffs

There are no special taxes on the Asbestos Industry. Producers are granted a depletion allowance of 23% on domestic production and 10% on foreign production. Domestic asbestos producers have no tariff protection.

NEXT ISSUE—
TRANSPORTATION & GOVERNMENT PROGRAMS

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BIRTHDAY GREETINGS TO . . .

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

W. R. Doughty, Managing Director, Cape Universal Building Products Ltd., Watford, Hertfordshire, England, July 18.

Roy A. Jann, Vice President-Sales, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 19.

Thomas W. Russell, Jr., Chairman of the Board & Chief Executive Officer, Abex Corporation, New York City, July 19.

C. Brown Whitley, Director, Scandura Inc., subsidiary of BBA Group Ltd., Charlotte, North Carolina, July 20.

Joseph A. Colagreco, Vice President & General Manager, Asbestos Corporation of America, Garwood, New Jersey, July 21.

Albert G. Kovacs, Manager of Industrial Relations, GAF Corporation, New York City, July 21.

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

Richard D. Deininger, Vice President-Research & Engineering, Nicolet Industries, Inc., Ambler, Pennsylvania, July 24.

Edgar L. Melton, President, Gustin-Bacon Group, and Vice President, Certain-teed Products Corporation, Valley Forge, Pennsylvania, July 25.

Dimitry Poutiatine, Vice President, Johns-Manville International Corporation, July 25.

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

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

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

Bev. Brower, Director of Advertising & Sales Promotion, Building Products Division, National Gypsum Company, Buffalo, New York, July 27.

Jay T. Derrick, Vice President of Industrial Relations-Panacon, Philip Carey Company, Cincinnati, Ohio, July 29.

Kenneth Karn, Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, July 29.

Raymond J. Wilcox, Vice President in charge of Building Products Division, GAF Corporation, New York City, July 29.

Thomas A. Dent, Vice President-Commercial Development, GAF Corporation, New York City, July 30.

George R. R. Wahl, Assistant General Manager, Pipe Division, Johns-Manville Corporation, July 30.

C. B. Brown, Director, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, August 1.

Frederic H. Main, Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, August 1.

H. B. Dugmore, Chairman, New Amianthus Mines (Pty) Ltd., Johannesburg, South Africa, August 4.

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Edward J. Killian, Vice President-Manufacturing Operations, Building Products Division, National Gypsum Company, Buffalo, New York, August 4.

Edwin A. Martin, Divisional President of Uniroyal Plastics and Industrial Products Company, a division of Uniroyal, Inc., New York City, August 4.

John J. McDermott, Vice President & General Manager, Nicolet of California, Inc., Hollister, California, August 5.

H. Kenneth Passmore, Secretary-Treasurer, Hedman Mines Ltd., Timmins, Ontario, Canada, August 5.

Lee G. Poole, Advertising Supervisor-Commercial, National Gypsum Company, Buffalo, New York, August 5.

G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.

C. G. Morgan, Vice President & General Manager, North American Asbestos Corporation, Chicago, Illinois, August 7.

R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.

Marshall J. Cowan, General Marketing Manager, Packings & Friction Materials Division, Johns-Manville Corporation, August 8.

J. W. Fortner, Operations Manager, Davidson Works, Thermoid Division, H. K. Porter Company, Inc., Davidson, North Carolina, August 8.

Arthur C. Smith, Vice President, Environmental Control Systems, Johns-Manville Corporation, August 8.

J. M. Dunn, President, Standco Industries, Inc., Houston, Texas, August 9.

Melvin H. Baker, Honorary Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

William J. Crane, Financial Vice President, Uniroyal, Inc., New York City, August 12.

DUMPING DUTY TO BE IMPOSED

On February 2, 1972, the U.S. Treasury Department advised the Tariff Commission that asbestos-cement pipe from Japan was being, and was likely to be, sold at less than fair value, as defined in the Antidumping Act, 1921, as amended [See March 1972 ASBESTOS, page 14].

Following investigation, the Tariff Commission on May 2nd notified the Secretary of the Treasury that an industry in the United States *is being injured*. As a result of the determination, imports of asbestos-cement pipe from Japan sold at less than fair value will become subject to special dumping duties.

The Commissioners who voted were equally divided in their determinations. Pursuant to Section 201(a) of the Antidumping Act, the Commission is deemed to have made an affirmative determinination when the Commissioners voting are equally divided.

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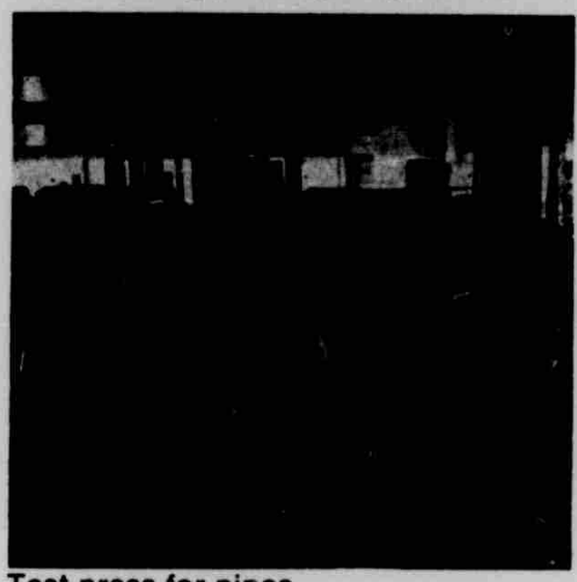
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NOTES FROM 1971 ANNUAL REPORTS

ASBESTOS CORPORATION LTD.

The year 1971 was reasonably successful for Asbestos Corporation Ltd. despite the uncertainties created as a result of the international monetary problem which culminated in the economic measures adopted by the U.S. government in August. Sales at $52,320,410 were down 2.4% from the 1970 record figure of $53,583,354. Net profit after taxes but before extradordinary items came to $6,014,852 in 1971 or $2.12 per common share, compared with $6,414,915 or $2.26 per common share in 1970. After taking into account two extraordinary items, net income for 1971 amounted to $5,964,852 or $2.10 per common share.

Construction and development of the Ungava phase of the Asbestos Hill project were well advanced at the end of the year and the plant is expected to be brought into production on schedule this spring. Total capital cost of this phase of the project, originally estimated to be $54 million, is now expected to reach $65 million. The over-run is attributable to major changes in scope and design of the plant together with unanticipated and sharply-increased labor costs. Construction of the finishing mill and related facilities located in Nordenham, West Germany, is proceeding satisfactorily and on schedule.

Although shipments for the first half of 1971 were well ahead of those for the same period in 1970, indicating a record year, the afore-mentioned U.S. monetary and economic measures had an unexpected, far-reaching and depressing impact on international trade during the second half of 1971 and sales of asbestos fell well below predicted levels in several areas. Major markets so affected were Western Europe and Japan. With some of the problems of international monetary stability temporarily settled, there are indications that overall economic activity in the industrial nations may soon resume its pattern of growth.

Value of asbestos production at all mines reached an all-time high in 1971, 6.7% ahead of 1970. All mines operated at close to capacity until the latter part of the year when operations at the King-Beaver Mine were cut back from a six- to a five-day week. Daily averages for 1971 were 102,135 tons of rock mined, 39,185 tons of ore processed, and 1,135 tons of asbestos produced.

Further underground exploration and development work in the amount of $2.3 million was carried out at the Penhale orebody during the year. The program confirmed the existence of ore previously indicated by diamond drilling and such reserves are now shown as part of the Normandie Mine reserves. After adjustments for consumption and recent revaluation, proven ore reserves at year-end were: 34,842,000 tons at King-Beaver, 53,557,000 tons at British Canadian, 33,053,000 tons at Normandie, 18,738,000 tons at Asbestos Hill, and 13,700,000

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ASBESTOS CORPORATION LIMITED

ASBESTOS

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tons at other properties. In addition there are in the Thetford area a further estimated 43,019,000 tons of probable ore and 63,400,000 tons of possible ore. The full extent of the Asbestos Hill reserves has yet to be determined.

Exploration other than at operating mines was carried out by Minorex Ltd., a wholly-owned subsidiary. At year-end, prospects carrying values in asbestos, gold, copper, molybdenum, nickel, silver and zinc required further work.

GAF CORPORATION

In spite of the many problems faced by business in general in 1971, GAF Corporation began to fulfill the promise of its modernization, expansion and diversification programs and concluded the year with substantial growth in sales and operating earnings.

Net income for 1971 was $13,474,000 or 71c a common share, compared with $14,694,000 or 80c a share the previous year. 1971 income from operations totaled $21,907,000 or $1.33 per share, up substantially from $8,393,000 or 34c a share in 1970. Sales during 1971 reached an all-time record of $683,762,000, or 17% higher than the $583,482,000 for 1970.

In all of the 14 GAF Building Products plants, work continued on equipment and systems aimed at the reduction of fumes and odors and the purification of water wastes. Some $3.6 million was spent on these programs in 1971 with a similar amount projected for 1972.

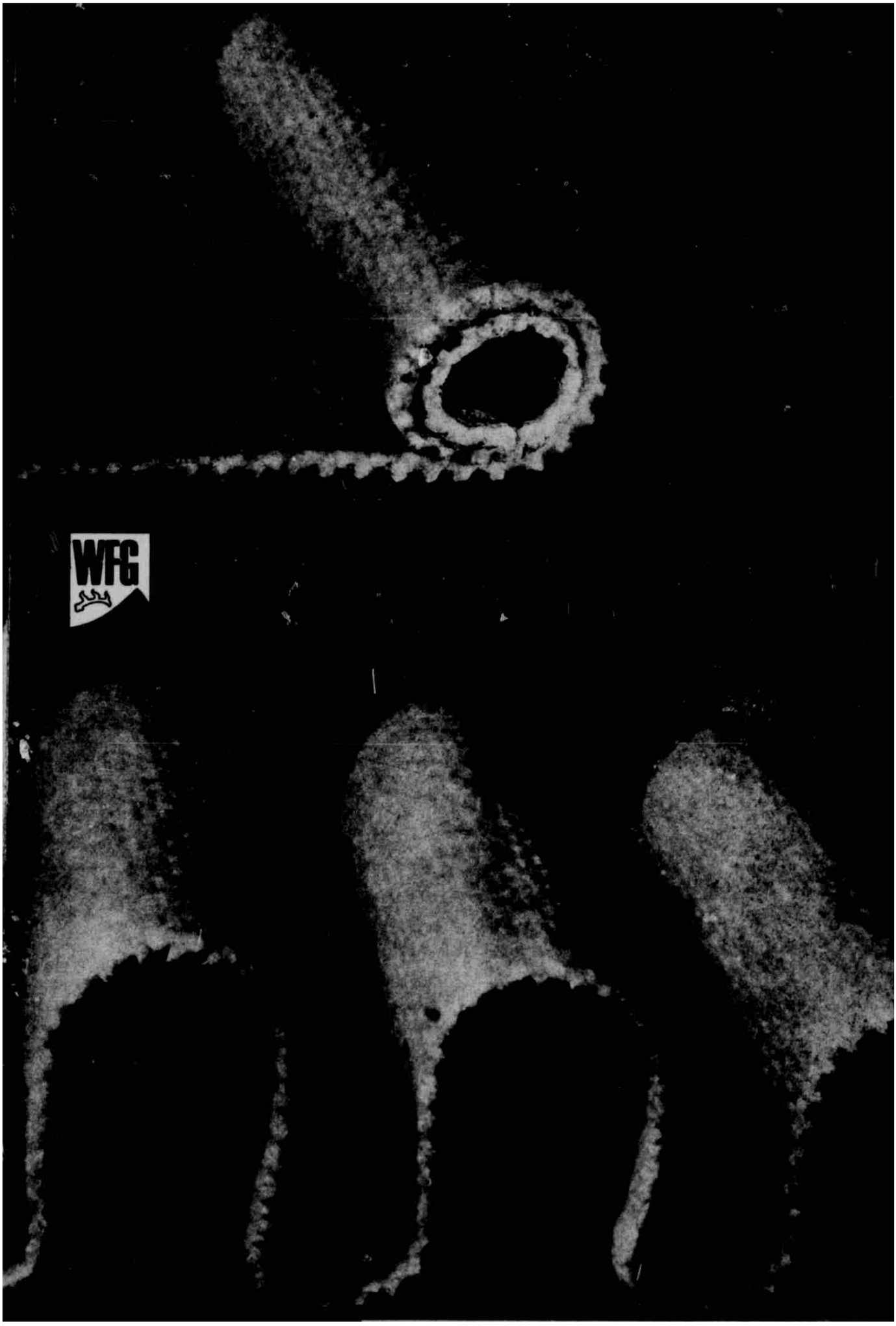
In the mineral fiber siding area, sales picked up after a slow start and ended the year with an impressive rise over 1970. Contributing to this growth were GAF® Stratalite® laminated mineral siding and a line of asbestos-cement bulkhead material that is being used extensively in waterfront and inland waterways development projects.

The Industrial Products Group mirrored the adverse conditions of the first half of 1971 but began gaining momentum as the year closed out and appreciably bettered 1970 sales. In addition, the Group accented its development of new products during the year, including a new asbestos latex gasketing. Overall sales of GAF mineral products, including granules and asbestos fibers, were strongly ahead of the previous year, largely due to the new housing impetus.

Sales of filtration products were assisted by the increased public concern for more air and water pollution control.

GAF continued to expand its worldwide markets during 1971. Total sales from international operations were $90 million, up some 5% from the prior year. These sales, consolidated within five respective product groups—chemical, photo, business systems, building and industrial—stem from U.S. exports and from goods manufactured in Canada and overseas.

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ASBESTOS STOCK QUOTATIONS

CLOSE—MAY 16, 1972

Abitibi Asbestos	*$2.90	G&W (pfd 1.75)	132¾
Advocate Mines	*$1.75	G&W (pfd 3.50)	169
Allied Mining	*$3.25	G&W (pfd 3.87)	76
Asarco	21⅜	G&W (pfd 5.75)	68⅞
Armstrong Cork	40¾	Illinois Central	35¾
Armst Cork (pfd 3.75)	54	Ill. Central (pfd 3.50)	61½
Asbestos Corporation	*$24.25	Johns-Manville	34¾
Bendix	44¼	Kennecott Copper	24⅛
Bendix (pfd 3)	72¼	Maremont	48¾
Carlisle	23	McAdam Mining	*$55.00
Cassiar Asbestos	*$17.25	National Gypsum	18⅛
Cerro Corporation	15½	Natl Gypsum (pfd 4.50)	70¾
Certain-teed Products	54½	Pacific Asbestos Ltd.	*$1.46
C-teed (pfd .90)	54½	Panacon	4⅞
Conwest	*$7.30	Pathfinder	*$1.35
Flintkote	32¼	Porter (pfd 5.50)	82½
F-kote (pfd-A 4.50)	87¼	Raybestos-Manhattan	29¾
F-kote (pfd-B 2.25)	42½	Rio Algom	*$18.50
Freeport Minerals	21	Royal Industries	13⅜
GAF Corporation	22⅜	Unarco	14⅞
GAF (pfd 1.20)	28¼	Union Carbide	47¼
Garlock	21¼	Uniroyal	17¼
Grace	26⅛	Uniroyal (pfd 8)	101½
Gulf & Western	40½	United Asbestos	45⅝

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)

TRADE/INVESTMENT OPPORTUNITIES

Businessmen desiring assistance with any phase of their foreign investment program should contact the nearest U.S. Department of Commerce Field Office or the Foreign Investment Services Division, Office of International Investment, U.S. Department of Commerce, BIC-878, Washington, D.C. 20230 (telephone: (202) 976-4065).

Germany—importer-distributor-manufacturer looking for direct purchase and agency agreements for roofing materials. [Caspar & Co., Dresdener Strasse, 51 Aachen]

Netherlands—importer-distributor seeking direct sale of air pollution measuring equipment, equipment for measuring purification of waste water, X-Y plotters and recorders, dual head isotope scanners. [Nenimij N.V., P. O. Box 2325, The Hague]

Sweden—importer-agent interested in direct purchase and agency agreements for packing, insulation materials for heating, sanitation. [Handelsfirman Maskintätningar, Grahundsvägen 38, S-123 62 Farsta]

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Gold Bond uses the best quality control devices known to man: people.

Sure we automated our milling equipment. Five floors of it.

But we want to be certain the particular grade of asbestos you need meets your requirements for uniformity.

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Our technicians make wet screen analyses to evaluate length and distribution of fibre...viscosity tests on absorptive characteristics... measure grit content...whatever it takes to be sure the asbestos meets your exact specifications. Batch after batch.

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Gold Bond
ASBESTOS FIBRES

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MEN ON THE MOVE

AMERICAN SMELTING & REFINING COMPANY

James C. Buck was elected Vice President-Sales it was announced by *Charles F. Barber,* Chairman of the Board. Mr. Buck joined Asarco in 1949 as a metallurgist and most recently had been General Sales Manager. He now reports to *Simon D. Strauss,* an Asarco Executive Vice President.

CERTAIN-TEED PRODUCTS CORPORATION

Franklin R. Winnert, President of Certain-teed's Shelter Materials Group, has been elected to the parent company's Board of Directors, according to Certain-teed President and Board Chairman *Malcolm Meyer.* Mr. Winnert's appointment, along with those of **Roger Fauroux** and **Gabriel Aufaure** from Compagnie de Saint Gobain in France and **S. Davidson Herron** of INA Corporation, increases the Board membership from 11 to 15 members . . . Various recent appointments within the Shelter Materials Group include **John A. Ronana** as a Vice President (he will continue to serve as Controller for the Group), **R. William Miltz** as General Sales Manager, **B. N. Beauchamp** and **R. L. Taylor** as Assistant Regional Sales Managers, **J. G. LaCroix** and **Cecil B. Holman** as Marketing Managers, and **William J. Neville** as Manager of Industrial Engineering.

GULF & WESTERN INDUSTRIES, INC.

Milton B. Hollander, former Vice President in charge of research and development activities at American Standard, Inc., was elected to the new position of Vice President-Technology of G&W. Dr. Hollander will coordinate the expanding research and scientific programs now underway.

SUPRADUR MANUFACTURING CORPORATION

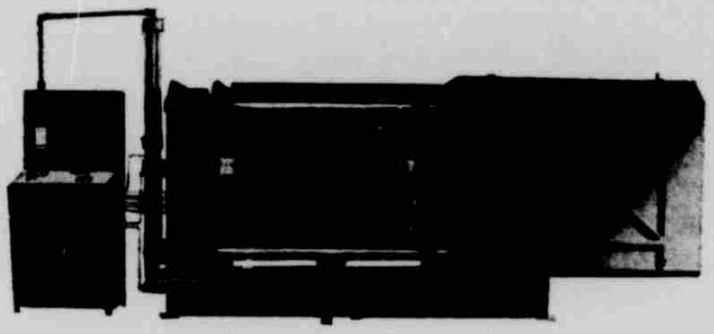
Kurt Schwarz was elected as Senior Vice President and **Robert A. Matthews** is now Vice President. Mr. Matthews is President and General Manager of Supradur's Precast-Schokbeton subsidiary. Supradur, who recently had public issue (OTC), is a building materials manufacturer.

WATTS, GRIFFIS AND McOUAT LTD.

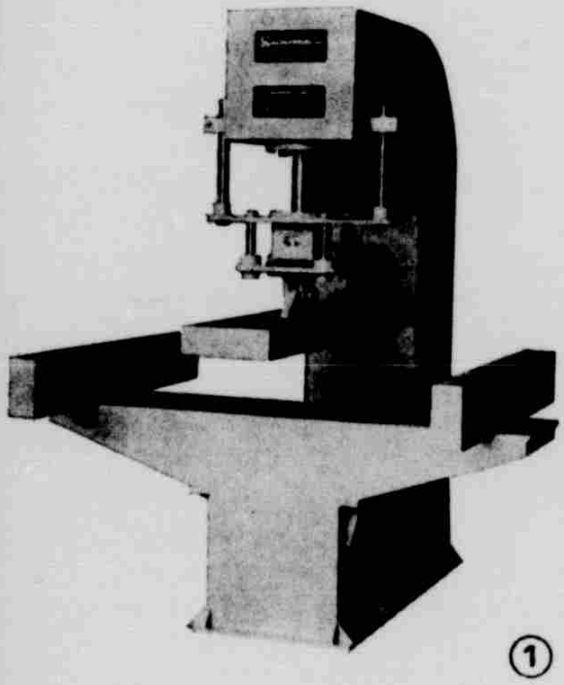
Glenn R. Clark and **Anthony T. Edwards** were recently added to the staff of WGM's office at Toronto, Ontario, Canada, it was announced by *Dr. A. T. Griffis,* President of WGM. Mr. Clark was formerly Chief Geologist for Northgate Exploration Ltd., and Mr. Edwards had been with International Nickel Company of Canada.

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① Bending and crushing test press for sheet and pipes



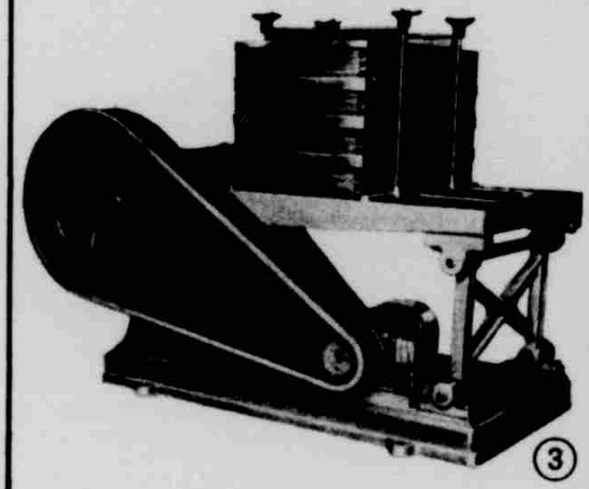
②



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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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittance should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be shown.

British 1,255,938—Ingot molds or head boxes are lined with a mixture of 85-95% by weight of a high-alumina brick powder with an organic binder, and an outer layer of silica sand or other siliceous refractory material and equal proportions of asbestos and an organic fibrous material; assigned to Aikow Kogyo Kaisha Ltd., December 1, 1971; 5 pages.

British 1,258,715—To stabilize asbestos-filled polypropylene compositions against heat degradation, there is added to the composition a combination of dithiophosphinic acid and a hindred phenol antioxidant; this combination markedly improves the heat stability of compositions containing up to 70% by weight of asbestos; S. J. Kozic & C. Savides; assigned to American Cyanamid Co., December 30, 1971; 5 pages.

British 1,259,131—A low-cost yet tough and impact resistant road surfacing composition of the tarmacadam type includes a base aggregate and a filler containing mastic, a wetting agent, and asbestos or glass fibers, a clay or rubber; W. de Couet; assigned to de Couet Tiefbau GmbH, January 5, 1972; 3 pages.

British 1,259,738—An improved collector reagent for use in the froth flotation beneficiation of asbestos or like ores consists of specified ester-sulfonates, mixed salts of ammonium or amines, ester amine salt sulfonates, or sulfonates of mixed salts of ammonium and amines; A. Verheyden & J. Hartmann; assigned to Union Chimique-Chemische Bedrijven S.A., January 12, 1972; 10 pages.

Canadian 885,394—A composition for the in-situ lining of an ingot mold or head box comprises a water solution of silica flour, colloidal silica, slag wool, asbestos and optionally acrylic resin and pulverized paper; E. J. Jago; assigned to Foseco Trading A.G., November 9, 1971; 8 pages.

Canadian 886,534—To suppress the formation of asbestosis-causing dust, asbestos fiber or asbestos fiber-containing product is treated with a dispersion or emulsion of natural or butadiene-styrene rubber, and the treated product dewatered and dried; G. F. Heron; assigned to Turner Brothers Asbestos Co. Ltd., November 23, 1971; 15 pages.

U.S. 3,628,321—Apparatus for processing asbestos into tape, sliver or other raw material in strand form having no free or loose fibers to be expelled during spinning; I. M. Schwartz; December 21, 1971; 3 pages.

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U.S. 3,630,012—Method for making a dispersion of asbestos having improved storability, extrudability and smoothness and flow properties as well as producing strand or yarn of enhanced tensile strength therefrom; H. C. G. H. Guertler; assigned to Rex Asbestwerke Graf von Rex KG, December 28, 1971; 4 pages.

U.S. 3,632,415—A fabric for insulation, construction or molding purposes consists of a mixture of filtration-grade asbestos fibers along with polyethylene, nylon or other organic fibers; this fabric is impregnated with an asphalt emulsion to obtain a product of uniform texture; M. L. Franklin & D. W. Gagle; assigned to Phillips Petroleum Co., January 4, 1972; 6 pages.

U.S. 3,634,568—In the production of asbestos yarn, a dispersion of Chrysotile fiber is entrained on a traveling carrier structure and coagulated by a pre-coat of coagulant on the carrier; the coagulated asbestos film is twisted into yarn immediately upon leaving the carrier structure; W. K. Donaldson, W. Wilke & H. Fetzer; January 11, 1972; 11 pages.

U.S. 3,639,236—An extreme pressure, structurally-stable grease comprises a lubricating oil, a fatty acid salt thickener, a complex aluminum salt, and colloidal, randomly oriented Chrysotile asbestos of the type produced in Central California; A. J. Morway & A. J. Bodner; assigned to Esso Research & Engineering Co., February 1, 1972; 4 pages.

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CALENDAR OF EVENTS

Methods Time Measurement and General Purpose Data—an engineering short course; The University of Wisconsin, Milwaukee, Wisconsin; *July 10-14.*

Computer Control of Machines and Processes—an engineering short course, The University of Wisconsin, Madison, Wisconsin, *July 17-21.*

24th Dornbirn Trade Fair—Export und Mustermesse GmbH., Dornbirn, Austria; *July 29-August 6.*

Education and Training Equipment Exposition and Conference—sponsored by the American Management Association; New York Hilton Hotel, New York City; *August 1-3.*

9th International Fair of Bogota—Corporacian de Ferais y Exposiciones S.A., Bogota, Columbia; *August 5-29.*

International Engineering Exhibition—Thomson Exhibition Promotions, Sydney, N.S.W., Australia; *August 7-12.*

International Mining Exhibition 1972—sponsored by the Council of Underground Machinery Manufacturers; Olympia, London, England; *August 18-25.*

Bygg-Ma—International Construction Industry Fair, Malmo, Sweden; *August 18-27.*

New Zealand Industries Fair—Christchurch, New Zealand; *August 19-September 2.*

5th International Strata Control Conference—sponsored by the National Coal Board and organized in conjunction with the International Organising Committee; Olympia, London, England; *August 21-25.*

24th International Geological Congress—Montreal, Quebec, Canada; *August 21-September 1.*

Canada-Only Trade Fair—sponsored by the Department of Industry, Trade and Commerce (Canada); Peking, China; *August 21-September 2.*

Industrial Anti-Pollution Devices Show—Industrial Daily News; Tokyo, Japan; *August 23-28.*

7th International Mining Congress—sponsored by Romanian Ministry of Mining, Petroleum and Geology with the cooperation of the International Committee of Mining Congresses Organization; Bucharest, Romania; *September 4-9.*

Manufacturing Plant Noise Seminars—by Laymon N. Miller, Principal Consultant with Bolt Beranek and Newman Inc.; *September 6-8* in Vancouver, B.C., Canada; *September 18-20* in Detroit, Michigan.

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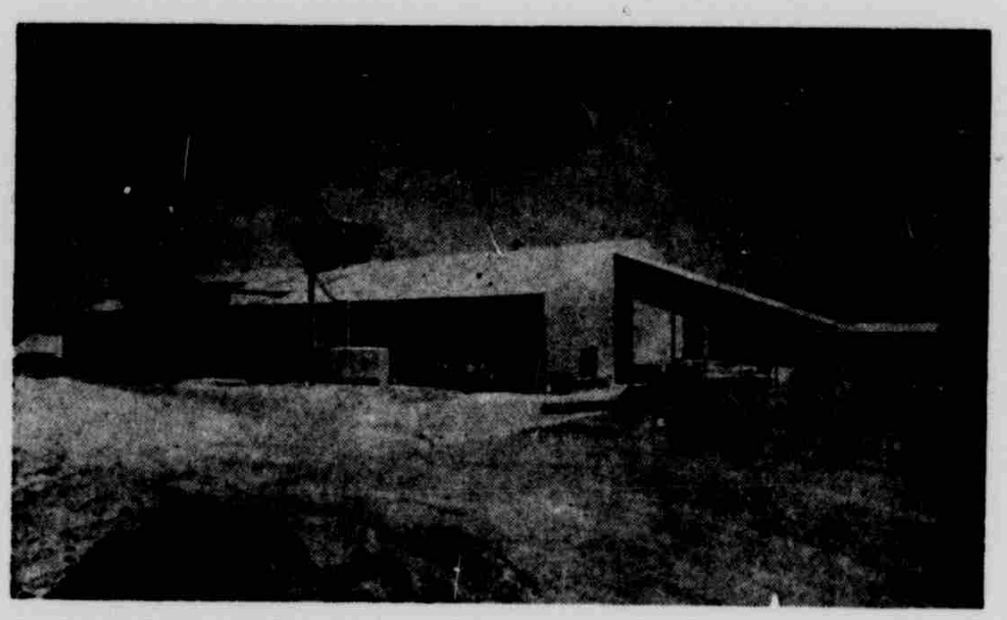
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MINES AND MILL IN GILA COUNTY

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Remember When?

(June 1922 ASBESTOS)

An interesting new insulating material known as "2 Point" heat insulation was described in an article in this issue. In contrast to the combination of corrugated and flat asbestos paper used in the well-known aircell construction, in "2 Point" a very thin paper was used and, while still wet, was creped in the same way that crepe paper is made. In winding this creped paper to make a piece of pipe covering, diatomaceous earth was introduced between layers resulting in a very efficient insulation for use up to 800°F.

It was reported that Johns-Manville, Inc., had taken a three-year option on the properties of the Bennett-Martin mining interests comprising some 24,000 acres, two mills and three producing mines. J-M intended to finance the operation of the Bennett-Martin properties and a program of improvement of facilities was under way.

The U.S. Navy Department, Bureau of Engineering, issued a new specification for compressed asbestos sheet packing, following closely the recommendations developed at a conference with packing manufacturers some months ago. Another new specification was also issued covering asbestos millboard.

The Multibestos Corporation announced some changes in personnel, the new organization consisting of: President, Stoughton Bell; Treasurer, C. W. Bunker; Assistant Treasurer, E. C. Benway; Secretary, T. J. Daley; Assistant Sales Manager, E. C. Miner; Superintendent, T. H. Bateson; and Purchasing Agent, J. Posternock.

The installation of equipment for the Asbestos Corporation of America was completed and the mill at Eden, Vermont, was placed in operation.

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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

But we have. Say 'Scandura' and you've said it all.

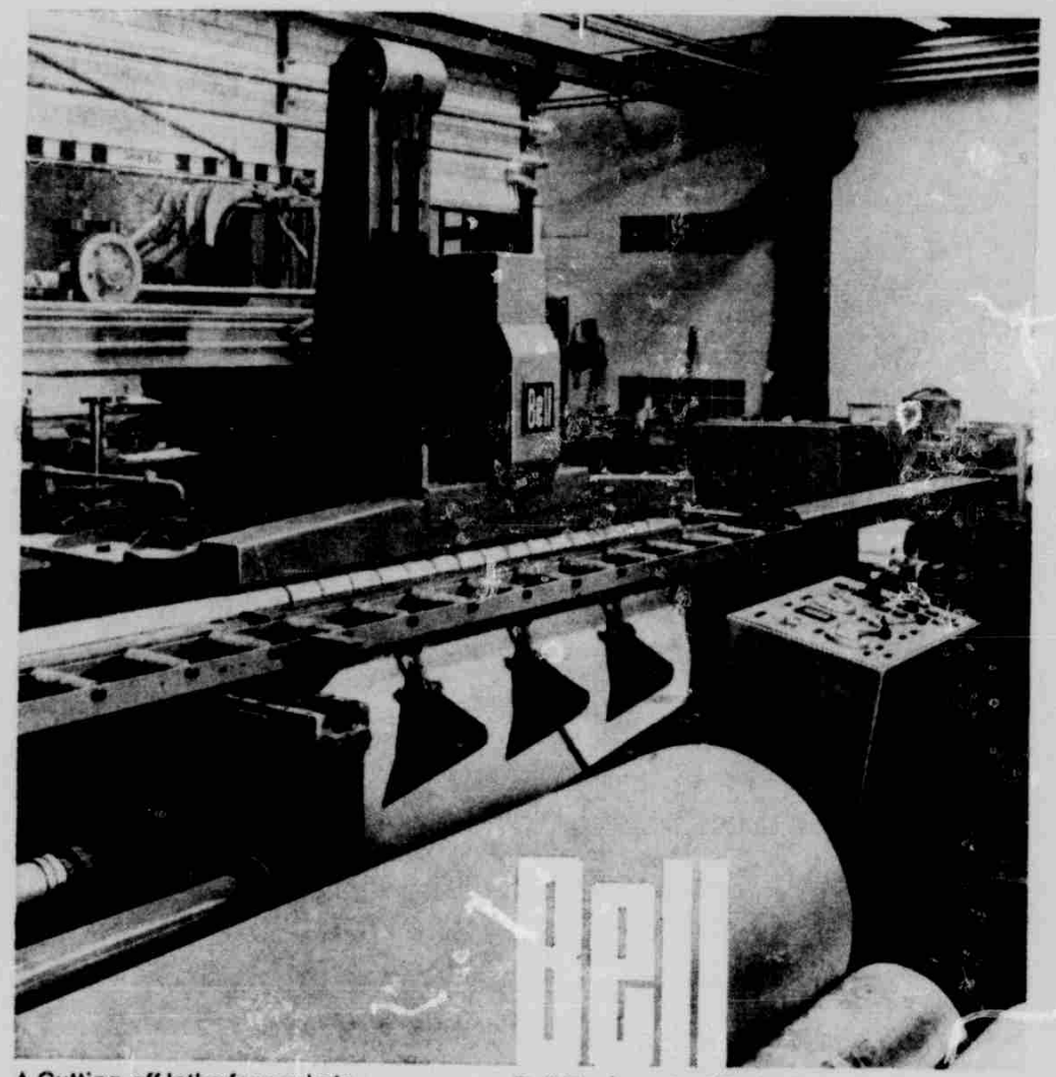


Scandura

Scandura Limited, P.O. Box 19,
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Telephone Cleckheaton 5711; Telex 51106.

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▲ Cutting-off lathe for sockets, working length 2 × 2500 mm. Socket outside diameter: 110—1200 mm.

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Cross conveyors
Corrugators

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

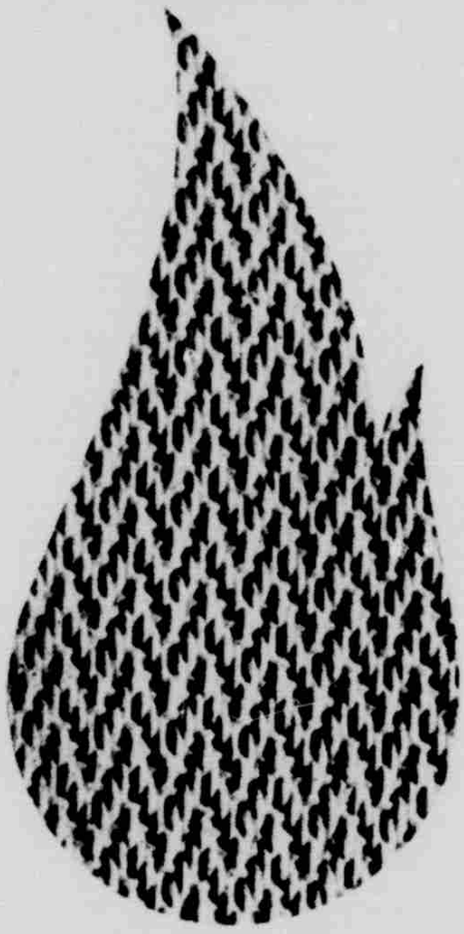
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Two good starts...

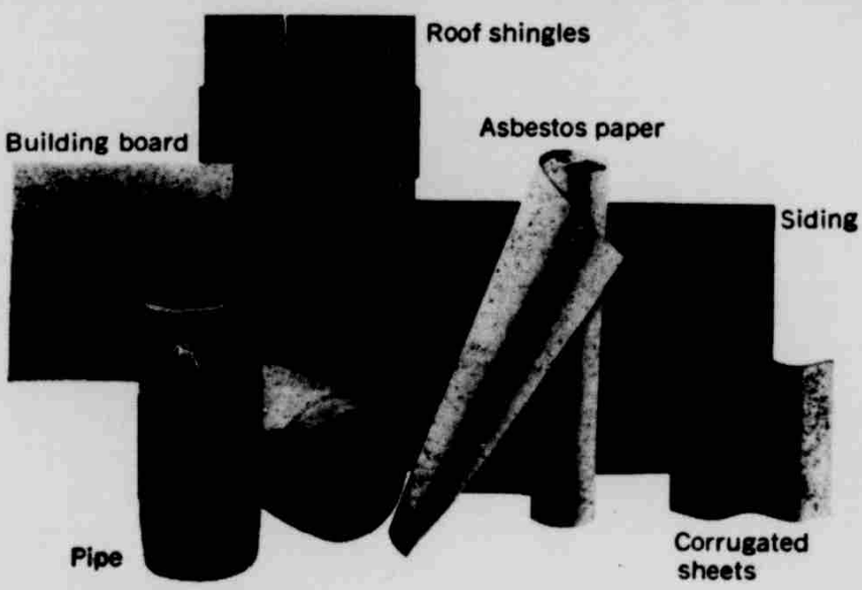
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