August 1972

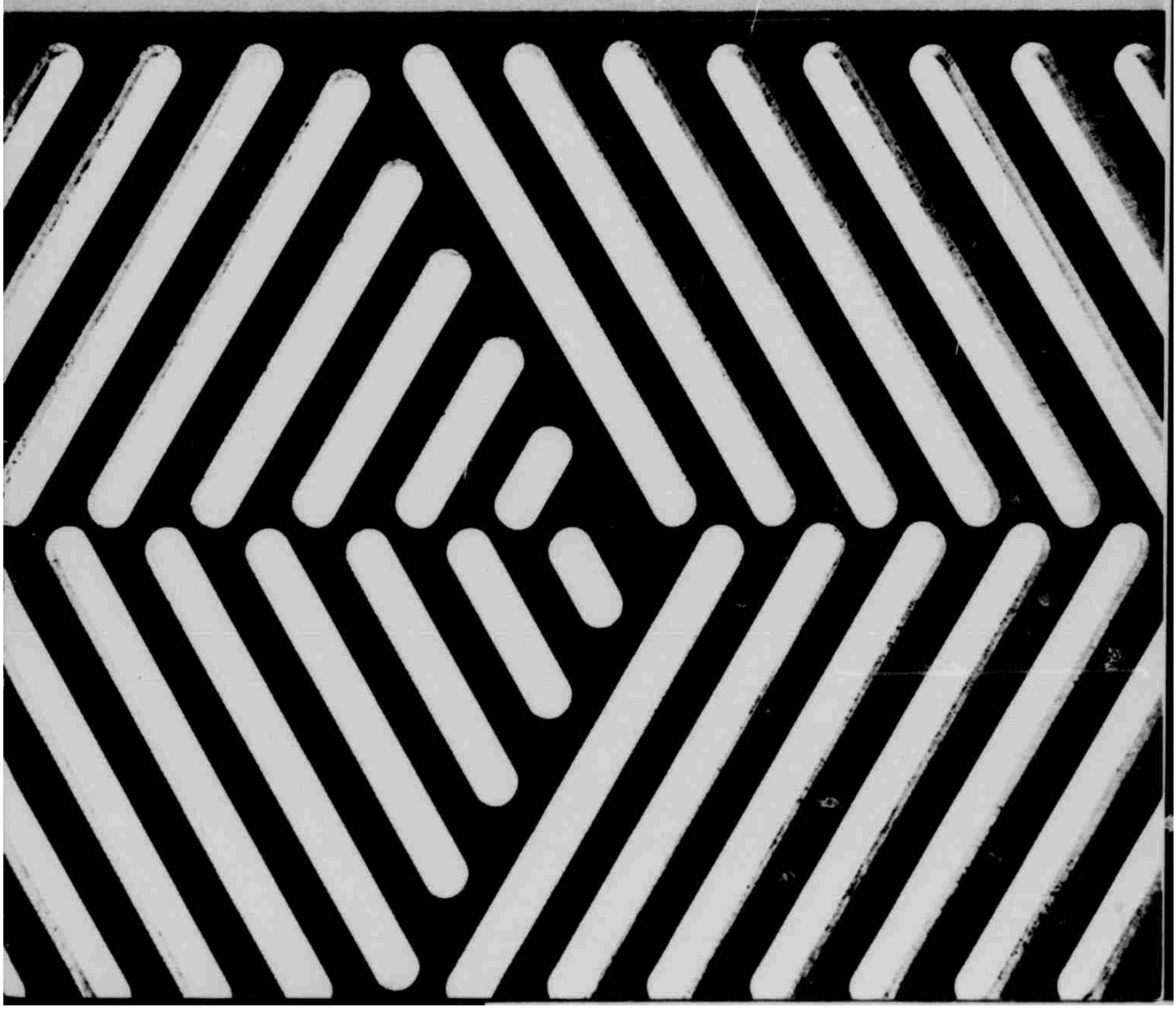
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History of Asbestos Textile Institute (Part 1)

"Robalit 61" Suction Box Covers



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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

Chapter XXVI: Highlights in the History of the Asbestos Textile Institute

PART I

In the writer's opinion, the founding of the Asbestos Textile Institute is the single most important event in the History of the Asbestos Textile Industry in the United States. It, therefore, seems fitting that the story of the founding of the industry's own trade association conclude this history of the asbestos textile industry.

In 1944 L. R. Hoff was President of Johns-Manville Sales Corporation. It was Roy Hoff who perceived the need for an industry trade association and it was he who sold the various company Presidents on the advantages to be gained in the establishment of the Asbestos Textile Institute. There is no question but what Roy Hoff was the father of ATI.

An organizational meeting was held at the University Club in New York City on November 16, 1944. Eleven asbestos textile manufacturers were represented, as follows:

Asbestos Textile Co.—Thomas L. Gatke;
J. Franklin Burke & Co.—J. Franklin Burke;
Carolina Asbestos Co.—C. H. Carlough;
Garlock Packing Co.—George Abbott;
Johns-Manville Corporation—L. R. Hoff, F. J. Wakem and A. L. Fisk, Jr. (Attorney);
Keasbey & Mattison Co.—E. Muehleck and Wm. C. Scott;
Philadelphia Asbestos Co.—E. R. Tuebner, Jr., and A. J. Scanlan;
Raybestos-Manhattan, Inc.—J. F. D. Rohrbach and G. W. Marshall, Jr.;
Southern Asbestos Co.—F. E. Schluter and G. S. Fabel;
Union Asbestos & Rubber Co.—L. L. Cohen and R. Wilde;
United States Rubber Co.—H. G. Smith and H. E. Sunbury.

A constitution and by-laws were adopted at the ATI organizational meeting. The stated purposes of the Asbestos Textile Institute, as enumerated in its constitution, are as follows:

1. To promote ethical business standards in the Industry and fair trade practices in dealings between manufacturers and the trade and in representations to the public.

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Asbestos

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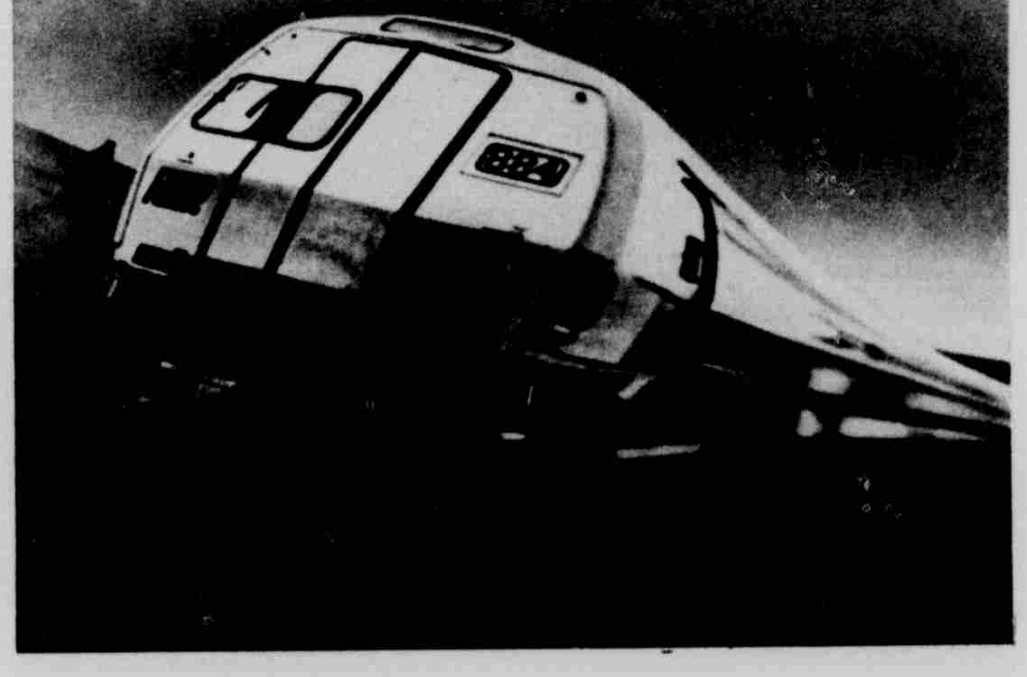
At speeds of up to 100 mph, Amtrak's New York-Washington, D.C. Metroliner needs all the stopping power it can get. So hard-working asbestos is used in the brake shoes on this cannonballing express.

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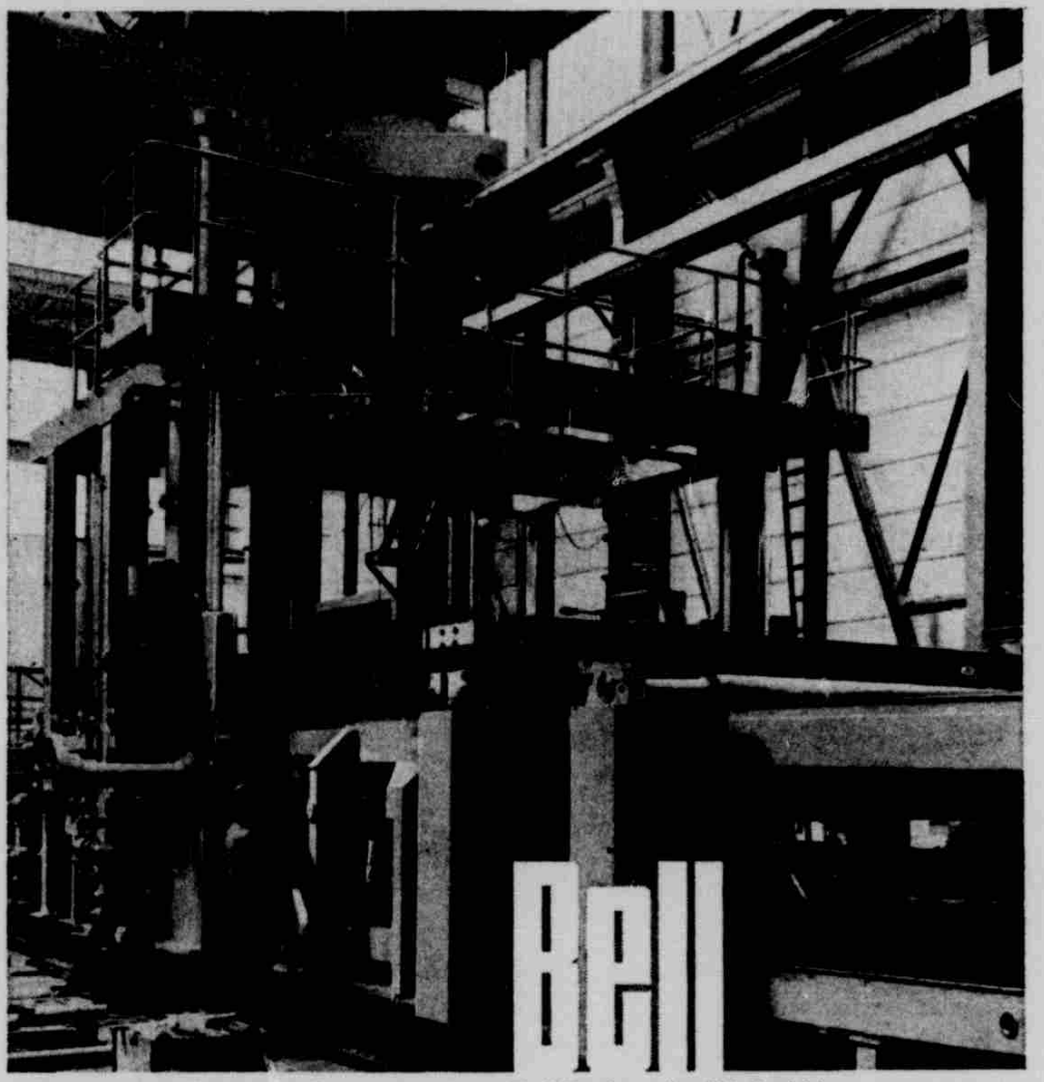
2. To lawfully promote the following activities:
   (a) The development of standards through research, practical tests, and other available means, the application of which by individual manufacturers, will insure a proper measure of quality in each of the Industry's products.
   (b) The development through research and other means of new uses and markets for the Industry's products, resulting in an increased consumption and a grading up of the Industry's products through the sale of better quality asbestos textile materials.
3. To lawfully promote and foster such Industry policies and programs as will tend:
   (a) To cultivate the good will of engineers, distributors, manufacturers, and the consuming public, and to improve their acceptance of the Industry's products.
   (b) To develop a more creative selling by the Industry's salesmen, and to instill among such salesmen an attitude of courageous aggressiveness in combating attacks upon the Industry, its Members and its products.
   (c) To promote Industry welfare through cooperative research, improved manufacturing, selling and distribution methods.
   (d) To cooperate in maintaining open, free, unrestrained and equitable competition in a manner consistent with the laws of the United States.
4. To act as a clearing house in the collection and dissemination of lawful information and statistics in respect to production, orders, shipments, stocks on hand, costs, credits, freight rates, employment, and such other matters as may be of value to the different manufacturers and the trade. No Member shall be required to furnish or receive any such information.

The members of the first Board of Governors of the Asbestos Textile Institute were elected November 16, 1944, as follows: George S. Fabel, Southern Asbestos Co.; George W. Marshall, Jr., Raybestos-Manhattan, Inc.; William C. Scott, Keasbey & Mattison Co.; Edmund R. Teubner, Philadelphia Asbestos Co.; and Francis J. Wakem, Johns-Manville Corporation. The Board of Governors then elected the following officers: C. Herbert Carlough as President, George W. Marshall, Jr., as Vice President and William C. Scott as Treasurer.

At the organizational meeting, the members retained F. Sims McGrath, of Cadwalader, Wickersham & Taft, as legal counsel. This prestigious New York law firm has represented ATI ever since that time. The presently assigned counsel is Wendell B. Alcorn.

West Flint & Co. were retained as Independent Accountants November 16, 1944. It was their function to compile industry production figures each calendar quarter and to report to each manufacturer his percentage of the total by

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▲ Pipe machine for producing pressure pipes.

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product categories. The reporting form adopted was the same as that prescribed by the War Production Board during World War II and, in fact, is still being used by the industry.

The first quarterly meeting of ATI was held March 20, 1945. The Board of Governors engaged Harris D. McKinney as Manager and Assistant Treasurer. Mr. McKinney was President of Harris D. McKinney Inc., an advertising agency that specialized in the management of trade associations. The agency now operates from offices in Philadelphia, Pa., and Cleveland, Ohio, and handles many industrial accounts.

Also on March 20th the Chase National Bank was designated the depository of Institute funds.

On July 25, 1945, Manager McKinney outlined "A Primer on Asbestos Textiles." The 28-page booket was subsequently printed and distributed to familiarize students with the properties and uses of asbestos fiber and asbestos textiles.

On October 16, 1945, a joint meeting was held in Sherbrooke, Quebec, Canada, by ATI and the Quebec Asbestos Mining Association (QAMA). Five mines and four asbestos textile manufacturers were represented. This was the start of a program which has resulted in substantially improved quality and grading of asbestos fiber over the years. In addition, lowered dust count in the fiber has resulted in better yields and in improved working conditions in the asbestos textile mills.

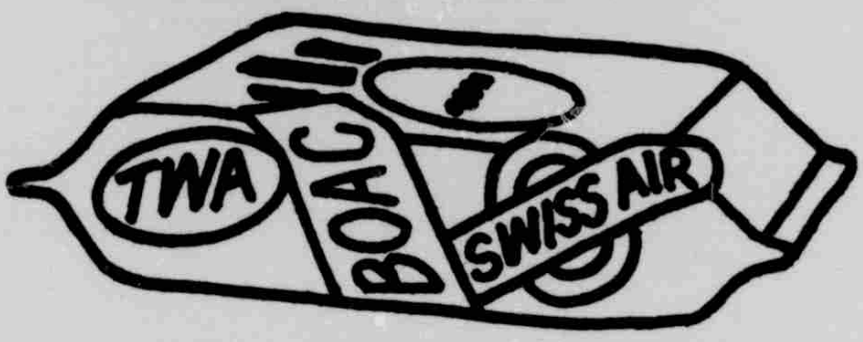
From time to time, various committees were appointed to carry forward the stated objectives of the Association. At the December 1945 conference, William S. Acuff, Sales Manager for Keasbey & Mattison, was appointed the first Chairman of the Sales Promotion Committee. Most ATI committees became permanent standing committees of the Institute, with rotating chairmen and membership.

At this same conference, Robert E. Cryor, then with Union Asbestos & Rubber Co. (now Unarco Industries, Inc), gave a most informative report on his inspection trip to German and other European asbestos textile mills. Mr. Cryor's tour was under the auspices of the U.S. Army and he had been commissioned a Colonel for the duration of his stated activity.

On December 12, 1945, Malcolm I. Ruddock attended his first ATI conference as the representative of Cadwalader, Wickersham & Taft. At each succeeding conference Malcolm Ruddock reviewed a current law case which he con-

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Lubeck, Germany	Possehl Erzkontar
Athens, Greece	A. D. Papachristopoulos & Company
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J. Deutsch
Torino, Italy	Franco Rol
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	Bryony Corporation
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Haarlem, Netherlands	Chemische Productenhandel J.J. Van De Vrande
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sidered pertinent to the asbestos textile industry. His untimely death on June 18, 1961, was a great loss to CW&T and to the asbestos textile industry.

On June 13, 1946, the initial conference of the ATI Dust Control Committee was called by the Committee's first Chairman, Ernest Muehleck, then President of K&M. The members of the Committee discussed procedures for exhausting, collecting and measuring asbestos dust. This was the start of a highly beneficial program which is still carried forward by ATI's Air Hygiene & Manufacturing Committee.

On December 12, 1946, Jesse M. Weaver, Chairman of the Technical Committee, recommended the establishment of a Research Fellowship at Rutgers University. He also recommended the employment of Dr. Myril C. Shaw as Research Fellow. Both recommendations were approved and the Technical Committee was given responsibility for the direction and supervision of the Fellowship. Dr. Shaw's laboratory was actually in the Ceramics Department of the Rutger's University Laboratory. For years, the Ceramics Laboratory had specialized in high temperature work and was well equipped to undertake high temperature testing of asbestos textiles under Dr. Shaw's direction. In subsequent years, Jesse Weaver served several terms as Chairman of the ATI Technical Committee and did as much as any man to direct the Fellowship along productive lines.

During World War II wages and prices of all products were "frozen." On December 12, 1946, Manager Harris McKinney notified all members of the industry that the Office of Price Administration (OPA) had removed the price ceilings on industry products.

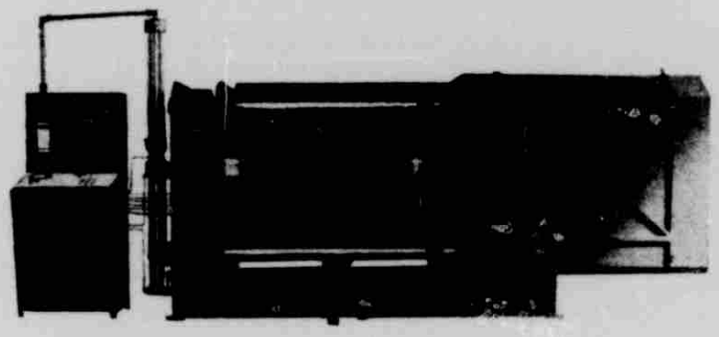
At the June 1948 conference, Harris McKinney resigned as Manager of ATI and Dr. Shaw was appointed Executive Secretary and Assistant Treasurer, in addition to his duties as Research Fellow.

At the May 1949 conference, the Sales Promotion Committee presented the first Visual Aid Display. This was an illuminated cabinet outlining the origin and uses of asbestos textiles. The promotional piece met with such enthusiastic acceptance that six additional cabinets were ordered. Over the next several years, the cabinets were on short-term display at most of the technical colleges in the U.S.

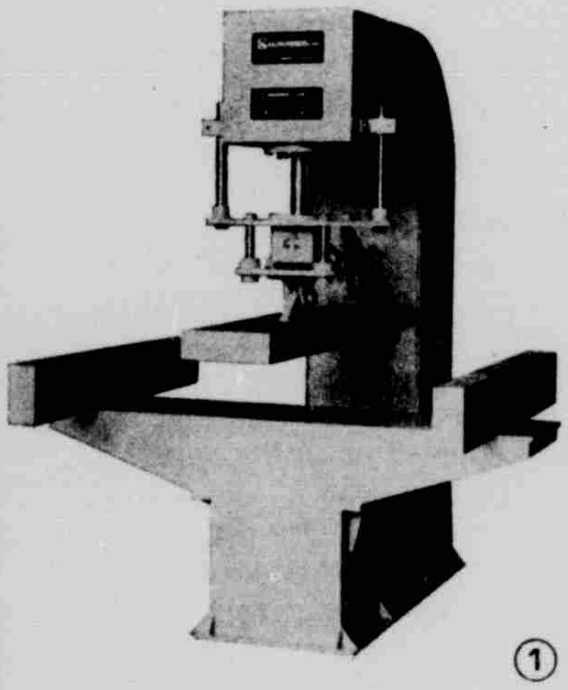
In March 1950, Dr. Shaw demonstrated the Abrado-

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① Bending and crushing test press for sheet and pipes



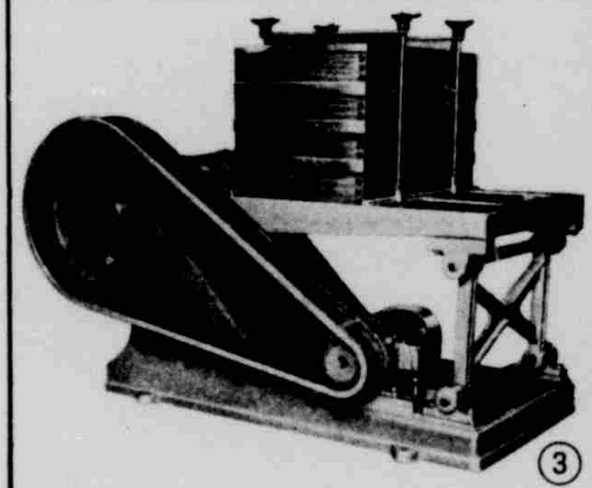
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

SALVANESCHI S. p. A.

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Flex machine which he had developed. This instrument measures the comparative resistance of asbestos cloths to frictional wear, and simultaneously their resistance to flexing. The Abrado-Flex machine simulates the two factors which generally determine the useful life of an asbestos textile in normal service.

In April 1951, the publication of a new four-page booklet was authorized. Twenty-eight-thousand copies of "The Story of Asbestos Textiles" were printed, with distribution principally to high schools and elementary schools.

In December 1951, the Constitution and By-Laws of ATI were amended to permit the inclusion of associate members. At the March 1952 conference, applications from two asbestos mines and from two asbestos textile manufacturers were approved: Asbestos Corporation Ltd., English Asbestos Co. Ltd., The Johnson's Co. Ltd. and Small & Parkes Ltd. Invitations for membership were also sent to Bell Asbestos Mines Ltd., The Cape Asbestos Co. Ltd., British Belting & Asbestos Ltd. (now BBA Group Ltd.) and Turner Brothers Asbestos Co. Ltd. All of these long-established members of the industry subsequently joined the Asbestos Textile Institute.

The October 1952 conference authorized the printing of the first "Handbook of Asbestos Textiles." The 78-page pamphlet combined product illustrations and data borrowed from the catalogs of various members of the industry. It also offered basic information and performance charts on asbestos textiles which had been developed by Dr. Shaw in the Fellowship Laboratory at Rutgers. Ten-thousand copies of the Handbook were printed in September 1953.

In March 1954, it was determined that Dr. Shaw had concluded just about all the test programs he could accomplish with the facilities available to him at Rutgers. It was, therefore, decided to transfer the Fellowship and Dr. Shaw to the Philadelphia Textile Institute (now the Philadelphia College of Textiles and Science), effective September 1954.

It was decided in September 1955 to purchase a most elaborate exhibit of asbestos textiles and their uses. This was to be an extension of the successful sales campaign provided by the seven smaller display cabinets purchased in 1949. The new exhibit consisted of four large illuminated display cabinets to be shown as one unit. During the next

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several years, the educational exhibit was loaned to numerous engineering colleges and technical schools. It was indeed a credit to the industry and to the Asbestos Textile Institute.

The June 5-7, 1956, conference was a gala event in the history of ATI. It was the first quarterly meeting to be held at Thetford Mines, Quebec, Canada. The Quebec Asbestos Mining Association (QAMA) hosted the event and it was a most informative and educational experience for all delegates who attended. Members had a choice of going underground into the Bell Mines (owned by Turner & Newall) or the King Mine (one of the properties of Asbestos Corporation). Smaller groups also visited several of the open pit mines. The hosts provided a memorable banquet at the Thetford Golf Club.

Part 2 of the "Highlights in the History of the Asbestos Textile Institute" will appear in the next issue.

Your Attention, Please!

We are considering reprinting, in booklet form, the entire "History of the Asbestos Textile Industry in the United States" as it has been appearing monthly in ASBESTOS since the August 1970 issue. The booklet would be the same size as ASBESTOS and would run about 100 pages. Price per reprint would be dependent upon the size of the run but would not exceed $2.95 per copy—a modest sum for what we believe is the only written account of the history of the U.S. asbestos textile industry . . . Are you interested? If so, please let us know how many copies you would like. If the number of advance orders is sufficient and you contact us **now**, we will proceed and the reprints could be available for distribution by or before November of this year.

THE COVER

Suction box covers in a herringbone pattern are used in asbestos cement machinery. Made of a synthetic material instead of steel, the covers were developed by Messrs. Leripa, of Austria, and are marketed under the "Robalit 61" trade name. Turn to page 14 for the complete story.

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NEW MATERIAL REPLACES STEEL

IN SUCTION BOX COVERS

Ever since asbestos cement articles were first produced on machines similar to papermaking machines, there has been continuous effort to improve the process. Much work has gone into improvement of the basic machines and the felts on which their operation depends. As is so often the case, little thought was given to the improvement of a vital part of the machines, namely the suction box covers.

Vacuum box covers play an important role in an asbestos cement machine since the friction between the felt and cover is high and a substantial portion of the power required to drive the machine is used in overcoming this friction. For many years the accepted material for covers and strips was steel. However, steel created relatively high friction and tended to develop razor-sharp edges that could cause damage to the felt.

A synthetic material having an ultra-high molecular weight and alloyed with the lubricating agent Molykote (Molybdenum Disulphide) was developed in Austria by Messrs. Leripa, Leder- und Riemen-Patentverwertungs—ges.m.b.H. for use as suction box covers on paper machines. This material, called "Robalit 61," was then successfully applied by Leripa to asbestos cement machines and it is now used in over 40 countries as a suction box cover on such machines.

What makes the product so eminently suitable as a suction box cover material? Robalit 61 shows great resistance against abrasion due to its ultra-high molecular weight and, because of its extremely low coefficient of friction, it offers a plane gliding surface to the felt. As a result, felt life is increased and driving power requirements drop by about one-third. Moreover, Robalit 61 is easy to machine and covers of any desired perforation pattern are offered at no extra cost.

Herringbone patterns (see the front cover of this issue) have proved to be superior to other patterns as they have a beneficial stretch-out effect on the felt. As the felt is guided along the edges of the diagonal slots, it is stretched in the cross direction thus avoiding a narrowing effect and prevent-

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ing folds. As a result, there is no vacuum loss at the cover ends, the sheet is much drier at the edges, and felt abrasion and formation of carbonate particles are minimized.

Robalit 61 is chemically-immune and corrosion-resistant and cleaning is no problem. Its affinity to cement is much less than that of steel.

Installation is easy. A simple method, used in many plants, is to insert the cover into a grid frame with lateral supports. Clamps or bolts are not necessary as the vacuum beneath the felt maintains the cover in position. This arrangement allows for a quick change of the cover, if need be, as well as for easy cleaning.

Leripa, in cooperation with felt and asbestos cement machine manufacturers, has compiled comprehensive reference data giving details of a number of interesting Robalit 61 installations. Costs frequently are recovered in a few months' time from savings which are the result of the increased life of as few as 2 or 3 felts.

FOR FURTHER INFORMATION, CONTACT LERIPA AT MARIAHILFERSTRASSE 135, A-1151 VIENNA, AUSTRIA, OR ITS U.S. REPRESENTATIVE, MINERALS & ASBESTOS CORPORATION, P. O. BOX 1206, PORT CHESTER, NEW YORK 10573.

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FERODO FLOORING MATERIAL

A new hard-wearing, anti-slip flooring material was recently launched by Ferodo Ltd., Chapel-en-le-Frith, Stockport, England. The new deck tread is a flexible molded asbestos/resin material developed by Ferodo for use where a high density of pedestrian traffic exists or for industrial applications where its water- and chemical-resistant characteristics prove particularly valuable. One of the advantages of deck tread lies in its having a high level of friction which is retained even when wet. It also has a high resistance to identation and can withstand pressures of up to 8000 lbs. psi (562 kg/sq cm).

LITERATURE FROM JOHNS-MANVILLE

Johns-Manville Corporation, Denver, Colorado, recently issued a set of Technical Bulletins to describe and illustrate its complete line of sheet gasketing materials. The literature covers over twenty sheet gasketing materials including J-M's extremely thin asbestos paper No. 747 and its compressed white Chrysotile asbestos acid-resistant sheet No. 86A . . . AFD-21A is a six-page folder that uses tables and photographs to describe asbestos-asphalt surface overlays and paving . . . Brochure No. TR600A was prepared by J-M to describe the use of Transite asbestos-cement "T" pipe for use in agriculaural irrigation systems . . . "Pipes & Fittings" is the title of Booklet TR112A which gives data on the company's complete line of pipe products including Transite asbestos-cement pipe, PVC plastic pipe, pre-insulated pipe and glass-fiber-reinforced plastic pipe and fittings.

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DCE UNITS AT EXPANDITE FACTORY

A new dust control plant serving two lines of asbestos rope braiding machines has been installed by Dust Control Equipment Ltd. of Thurmaston, Leicester, England, at the Bracknell factory of Expandite Ltd., a member of the Burmah Group of companies. The plant consists of eight DCE Unimaster dust control units linked to a common fan to provide exhaust and filtration for the braiding machines. Each Unimaster is equipped with a special secondary filter designed and manufactured by DCE so that the cleaned air can be safely retained in the factory. The dust container of each unit is lined with a plastic bag to facilitate the hygienic removal and disposal of the collected dust.

INSULATION HYGIENE PROGRESS REPORTS

The Spring 1972 issue of IHPR, published by the Insulation Industry Hygiene Research Program, advises of an effective, economical dust collector for use with band saws, other powered equipment and for general clean-up. Environmental tests were made on the machine at the factory of Howard Forrest Co. in Houston, Texas, and all measurements taken showed dust levels to be less than one fiber per milliliter (longer than five microns) during fifty cuts on the material over a ten-minute period of time. Also in this issue are excerpts from the Emergency Asbestos Dust Standard published December 7, 1971, and descriptions of four disposable respirators that are said to provide useful respiratory protection for asbestos workers during virtually all insulation work, except in the spraying of asbestos or the removal of old insulation which require the wearing of air-supplied respirators.

The Summer 1972 issue of IHPR contains various articles concerned with the proposed asbestos dust standard announced by OSHA on June 7, 1972 (see July 1972 ASBESTOS). This edition also lists the cautions essential in the use of all insulation material and reports the findings from a survey of dust counts on construction jobs.

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MARKET CONDITIONS

GENERAL BUSINESS

The biggest news in July was political rather than economic, when Senator George McGovern won the Democratic nomination for President of the United States on the first ballot of the party's convention in Miami. The apparent ease with which the nomination was won can be somewhat misleading as to the vote-getting power of the candidate when election day rolls around. For example, while certain party leaders who bitterly opposed the McGovern candidacy have since pledged him their full support, for the first time in many years labor leaders have failed to unanimously endorse the Democratic candidate. At least one large union has declared for President Nixon and the AFL-CIO President, George Meany, has assumed a neutral position. Due to several rather radical proposals made by the candidate prior to his nomination, businessmen in general are quite concerned about what might happen should the Senator wage a successful campaign for the Presidency. This concern, according to some analysts, may be part of the cause of a slow but persistent decline in the stock market which has failed, as yet, to show any signs of starting its traditional mid-summer rally. Truth to tell, the market action seems to be baffling even to the "experts," since corporate earnings show general improvement and there are no pronounced signs that the steady rise in business activity is coming to a halt. On the other hand, the fact remains that many businesses are still in the doldrums caused by earlier cutbacks in the aerospace industry and their rate of recovery is lagging behind that of many larger, consumer-oriented concerns. This makes for a lack of confidence in certain sectors of the economy which is keeping the brakes on anything resembling a runaway boom.

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CONSTRUCTION NEWS

JUNE 1972 construction contracting was pushed ahead in value by 6%, to $8,477,640,000, due to continued strength in housing. Reflecting the current weaknesses in the nonresidential and nonbuilding markets, the seasonally-adjusted Dodge Index (1967=100) declined 7% in June to 154.

Nonresidential building contracts were valued at $2,446,963,000, a 12% decline from June 1971, with manufacturing plants, schools, hospitals and public buildings all below the rate of last year.

Residential building contracts totaled $4,375,371,000, a 26% increase over the prior June. Apartment contracting posted a healthy 17% increase and good gains in one- and two-family housing plus a sharp spurt by the small hotel-motel-dormitory component accounted for most of the strength.

Nonbuilding contracts recorded a total value of $1,655,306,000, representing a 6% decline from the June 1971 results. Contracting gains for sewer and water facilities paced the nonbuilding totals but utilities and contracting for streets and highways trended lower.

Cumulative construction contract value for the first half of 1972 totaled $44,705,349,000: Nonresidential, $13,194,038,000, up 5%; Residential, $21,729,513,000, up 36%; Nonbuilding, $9,781,798,000, down 6%. The six-month total was 15% ahead of the same period in 1971. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

MAY 1972 motor vehicle sales from plants in the *United States* totaled 1,078,286 (passenger cars—842,946; trucks and buses—235,340). The cumulative total for the First Five Months of 1972 was 4,953,988 compared with 4,692,368 for the same period in 1971.

Motor vehicle factory sales from plants in *Canada* totaled 148,491 in May 1972. The cumulative total for January-May 1972 was 659,202 against 602,057 for the like 1971 period. [Automobile Manufacturers Association]

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PRODUCTION—IMPORTS—EXPORTS

Australia—Production of non-acoustic asbestos-cement sheets for the six-month period *July-December 1971* totaled 22,266,000 square yards, compared with 21,272,000 square yards during the same six months of the previous year. [Commonwealth Bureau of Census and Statistics, Canberra]

Australia—738 short tons of Chrysotile asbestos were *produced* during the *January-September 1971* period (681 tons from New South Wales and 57 tons from Western Australia) . . . *Imports* reached 52,891 tons, valued at $7,490,000. The breakdown is as follows: Chrysotile, 33,602 tons, valued at $4,902,000; Amosite, 8,612 tons, valued at $1,308,000; Other Types, 10,677 tons, valued at $1,280,000 . . . *Exports* of All Types and Grades amounted to 13 tons, valued at less than $2,000 . . . *Comparable totals* for the first nine months of 1970 are: 618 tons produced; 50,797 tons imported at a value of $7,116,000; 355 tons exported at a value of $88,000. [Bureau of Mineral Resources, Geology and Geophysics, Canberra]

Canada—Producers' shipments of asbestos during *May 1972* totaled 138,281 short tons (115,538 tons from plants in Quebec and 22,743 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for May 1971 was 145,006 tons . . . The cumulative total of producers' shipments for the *First Five Months of 1972* was 623,597 tons (499,948 tons from Quebec plants and 123,649 tons from plants in the other four Provinces). The total for the same period in 1971 was 595,729 tons. [Statistics Canada]

Republic of South Africa—*Production* of asbestos for the *First Three Months of 1972* totaled 76,137 metric tons: 25,908 tons of Amosite, 12,181 tons of Chrysotile, 36,374 tons of Cape Blue, and 1,674 tons of Transvaal Blue. Total production for the first quarter of 1971 was 75,151 tons . . . *Local Sales* reached 5,113 tons, valued at R520,425, compared with 9,336 tons, valued at R968,439 during the first quarter of the previous year. The breakdown for 1972 is: Amosite, 579 tons, R66,298; Chrysotile, 2,989 tons, R239,960; Cape Blue, 1,468 tons, R209,892; Transvaal Blue, 77 tons, R4,275 . . . *Exports* of asbestos for the first three months of 1972 totaled 46,937 tons, valued at R6,682,188, broken down as follows: Amosite, 15,657 tons, R2,157,366; Chrysotile, 6,820 tons, R609,729; Cape Blue, 23,180 tons, R3,682,793; Transvaal Blue, 1,280 tons, R232,300. Total exports for the same period of 1971 were 52,149 tons, valued at R6,704,855. [Department of Mines, Johannesburg]

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ASBESTOS

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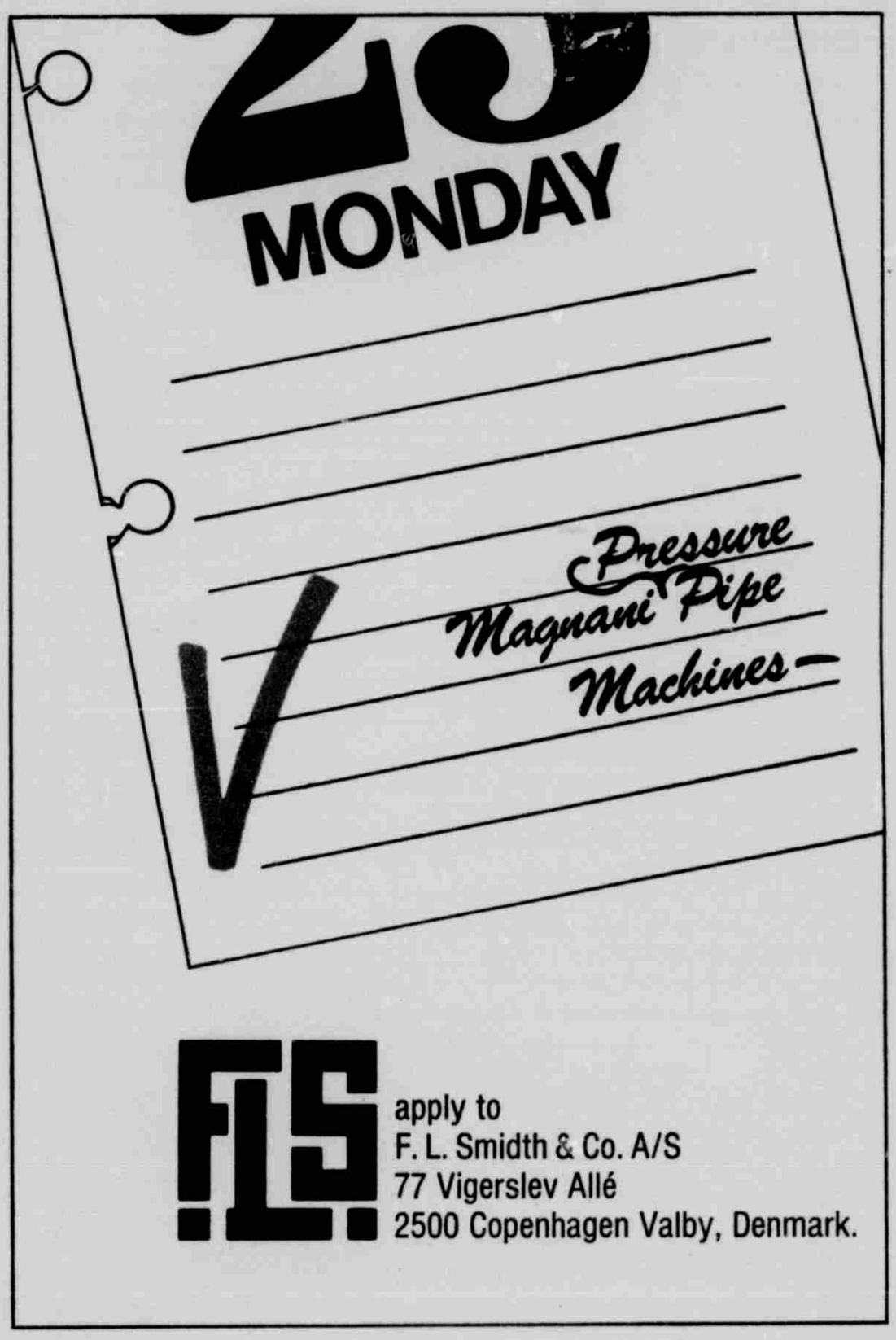
IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**MARCH 1972**	
Amosite, South Africa	s. tons	482	$ 97,355
Crocidolite (Blue) South Africa	s. tons	198	42,712
Chrysotile, Crude, South Africa	s. tons	240	52,688
Chrysotile, Spinning Fibers, Canada	s. tons	1,336	617,068
Chrysotile, Other, Canada	s. tons	60,449	6,348,923
Other Crudes & Fibers, Canada	s. tons	252	14,182
Finland	s. tons	214	15,169
Italy	s. tons	1	1,111
South Africa	s. tons	350	58,853
Switzerland	s. tons	4	1,538
		63,526	$ 7,249,599
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	463,218	$ 398,844
A-C pipes, tubes and fittings	Lb	5,238,386	250,537
A-C articles, other	Lb	1,586,428	306,514
Asbestos articles, other		..	264,861
			$ 1,220,756

Unmanufactured Asbestos:		**JANUARY-MARCH 1972**	
Amosite, South Africa	s. tons	1,900	$ 319,768
Crocidolite (Blue) Bolivia	s. tons	29	2,966
South Africa	s. tons	834	180,019
Chrysotile, Crude, South Africa	s. tons	330	73,499
Chrysotile, Spinning Fibers, Canada	s. tons	2,966	1,399,549
Chrysotile, Other, Canada	s. tons	171,914	20,387,894
Other Crudes & Fibers, Canada	s. tons	970	98,438
Finland	s. tons	739	48,340
Greece	s. tons	6	1,361
Italy	s. tons	1	1,111
Mozambique	s. tons	33	4,773
South Africa	s. tons	390	70,032
Switzerland	s. tons	4	1,538
		180,116	$22,589,288
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	1,236,189	$ 1,108,515
A-C pipes, tubes and fittings	Lb	10,695,299	520,460
A-C articles, other	Lb	5,153,612	845,090
Asbestos articles, other		..	621,199
			$ 3,095,264

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**MARCH 1972**	
Fibers not further processed than beaten, washed or graded to length	s. tons	3,008	$ 516,748
Waste and refuse	s. tons	2,857	355,345
		5,865	$ 872,093
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,794,362	$ 181,321
Other a-c or fiber-cement articles	Lb	447,784	76,527
Gaskets	Lb	32,256	92,162
Packing	Lb	410,772	521,608
Heat or sound insulation		..	199,411
Textiles and yarns	Lb	1,450,888	323,441
Protective clothing		..	11,041
Mfrs. other than friction materials		..	400,529
Cl. facings and linings for auto. use	No	287,981	205,011
Other clutch facings and linings	No	41,033	34,510
Brake linings for automotive use	Lb	610,241	453,089
Other brake linings	Lb	270,324	243,087
			$2,741,737

Unmanufactured Asbestos:		**JANUARY-MARCH 1972**	
Fibers not further processed than beaten, washed or graded to length	s. tons	7,155	$1,027,105
Waste and refuse	s. tons	4,418	560,796
		11,573	$1,587,901
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	6,742,909	$ 680,771
Other a-c or fiber-cement articles	Lb	1,699,527	238,525
Gaskets	Lb	175,913	308,563
Packing	Lb	1,258,535	1,755,397
Heat or sound insulation		..	559,350
Textiles and yarns	Lb	5,447,884	1,107,251
Protective clothing		..	45,794
Mfrs. other than friction materials		..	1,003,674
Cl. facings and linings for auto. use	No	793,444	617,075
Other clutch facings and linings	No	256,226	130,474
Brake linings for automotive use	No	1,704,676	1,245,291
Other brake linings	Lb	658,828	545,295
			$8,237,460

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EXPORTS FROM CANADA

Figures from Statistics Canada

MARCH 1972

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	633	12,262	9,705
Eastern Europe	..	..	1,685	18
Middle East	..	..	1,258	196
Africa	..	..	90	40
Asia	..	116	3,903	5,729
Oceania	..	..	1,814	389
So. & Cen. America & Antilles	..	42	5,729	2,712
United States	..	1,429	19,013	47,016
	..	2,220	45,754	65,805

The total amount of unmanufactured asbestos exported in *March 1972* was 113,779 short tons, valued at $15,011,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 41,000
Asbestos-cement building materials	157,000
Other basic products	189,000
	$ 387,000

JANUARY-MARCH 1972

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	3	2,723	44,931	26,918
Eastern Europe	..	50	9,734	196
Middle East	..	..	4,968	1,210
Africa	..	..	2,226	1,165
Asia	2	770	21,567	31,455
Oceania	..	07	9,784	1,809
So. & Cen. America & Antilles	..	130	19,748	8,490
United States	1	3,515	52,887	117,416
	6	7,195	165,845	188,659

The total amount of unmanufactured asbestos exported in *January-March 1972* was 361,705 short tons, valued at $52,569,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 158,000
Asbestos-cement building materials	530,000
Other basic products	590,000
	$ 1,278,000

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Part 16: Economic Factors/Strategic Considerations

The varieties and grades of asbestos that are of greatest strategic importance are being stockpiled. The national stockpile items are spinning grade Chrysotile and Amosite. Bolivian Blue Crocidolite is no longer considered strategic. The United States is dependent upon foreign sources for 90-93% of its requirements for all grades of asbestos.

Part 17: Environmental Considerations

Many investigators from various countries have established that inhalation of dust of different chemical and physical types of asbestos results in the development of asbestosis of the lung which, depending upon the type of exposure, may be designated as an occupation, a neighborhood or a household pneumoconiosis. The hazards are recognized and steps are being taken by industry to filter the air and properly ventilate mines and mills. A leading asbestos producer instituted programs to prevent possible health and safety hazards and to improve the quality of air and water used in manufacturing operations. Environmental control activities included the development of a rotary filter system that permits the continual re-use of industrial process water. The new system which uses diatomite filter aid products reduces water demand and eliminates high-solid-effluent problems.

An epidemiological survey is being carried on throughout the Quebec asbestos industry by the Quebec Asbestos Mining Association as part of a planned international effort. Fact-finding medical research on the effect of asbestos on human health was centered in the Thetford Mines and Asbestos districts. Similar surveys are being conducted in the U.S., Finland, the USSR, Republic of South Africa, Italy and in other countries. Because of the universal use of asbestos and asbestos products, national and international authorities are pressing for careful investigations so that dangers can be identified and controlled. Much has been done to develop effective dust control methods and to create better working conditions.

No land-use conflict problems seem likely to inhibit the production of asbestos. Virtually all of the deposits are in rugged country far removed from major populated areas. The mining operations are on privately-owned or leased lands. Waste rock is hauled to nearby dumps and as the pile builds up, a bulldozer spreads it out. Water sprays allay the dust as the tailings are discharged. The milling of asbestos is generally a dry operation and hooded screens operate under a slight negative pressure for dust control. The King City, California, operation of Union Carbide Corporation uses a wet milling ore beneficiation method.

NEXT ISSUE—OUTLOOK/DEMAND & CONSTRUCTION

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ASBESTOS HILL PRODUCING

The new asbestos mine of Asbestos Corporation Ltd., located on Hudson Strait in the far northern Ungava area of Quebec, is now in production. Following a construction period of two years and an expense of approximately $65 million, the Asbestos Hill project started into the tune-up stage in May and tonnage of ungraded asbestos fiber is now being trucked some 40 miles north to the storage facilities at the dock site at Deception Bay.

The 5000-ton per day mill, situated near the open pit mining operation, is currently and steadily being worked up to rated capacity. Accumulated production is expected to start moving to Asbestos Corporation's finishing plant at Nordenham, West Germany, when the normal shipping season for ocean freighters opens this month. The finishing plant and related facilities at Nordenham are designed to annually treat 300,000 tons of ungraded material to produce 100,000 tons of finished fiber, mostly of the No. 4 and No. 5 grades, [Northern Miner]

ABITIBI/BRINCO AGREEMENT APPROVED

Shareholder approval has been obtained, thus closing the agreement [see May 1972 ASBESTOS] between Abitibi Asbestos Mining Co. and Brinco Ltd. regarding Abitibi's asbestos property in Maizerets Township, some 50 miles north of Amos, in Northwestern Quebec. A feasibility study made by Kilborn Engineering on the "A" property showed that ore reserves amenable to open pit mining are sufficient to support a 13,000-ton per day processing plant for 25 years. The fiber is a fast-draining, strong, clean, cross-fiber Chrysotile, in Groups 4, 5 and 6. Other news from Abitibi . . . Dydar Holdings has been engaged as Manager of certain exploration and development programs . . . In addition to the Maizerets deposit, Abitibi holds adjacent mining claim groups. Testing of favorable geological features on these claims will soon get underway . . . An asbestos discovery was made on a property located in McArthur Township, 26 miles south of Timmins, Ontario. Abitibi holds this property under option.

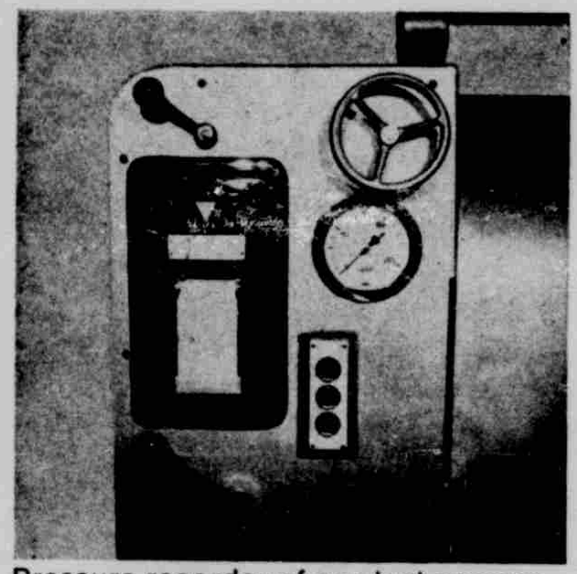
CANADIAN MINES BRANCH PROGRAM

Underway in April was the first phase of a five-year (Canadian) $3.3 million program to devise standardized engineering procedures for designing and supporting the walls of open pit mines or for reducing the size of open pits. According to a spokesman for the Department of Energy, Mines and Resources, Ottawa, the purpose of the program is to allow maximum extraction of ore at minimum physical hazard and cost.

Contractors for the project are Asbestos Corporation; Smith and Bray Engineering in association with Sherritt Gordon Mines; Wright Engineers; Golder, Brawner and Associates; the University of Alberta; Queens' University; and Ecole Polytechnique de Montreal. In addition, sub-contracts have been awarded to engineering firms and universities across Canada. [Mineral Trade News]

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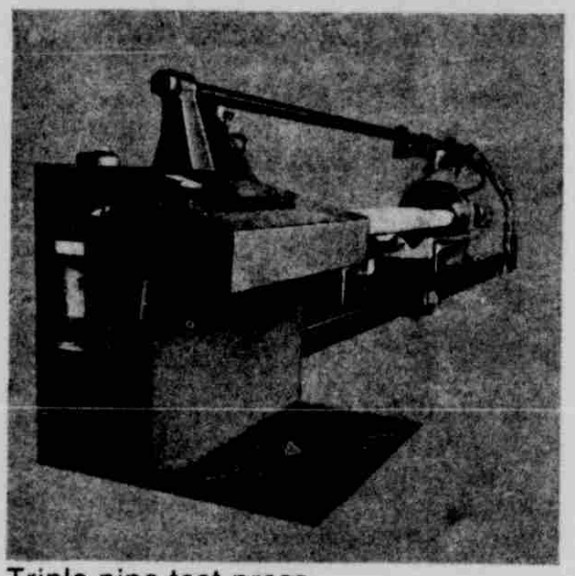
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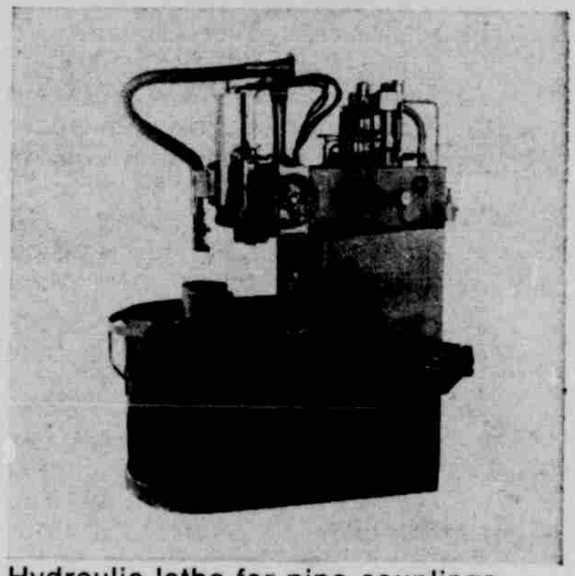
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BIRTHDAY GREETINGS TO . . .

Robert W. Winson, Mine Project Manager, Reeves Mine, Canadian Johns-Manville Co. Ltd., Timmins, Ontario, September 13.

W. John Scotford, Technical Director, Wunderlich Ltd., Sydney, N.S.W., Australia, September 15.

Chester E. Shepperly, General Manager, Residential Products Division, Johns-Manville Corporation, September 15.

William L. VanDerbeek, Vice President, Mining & Canadian Products Divisions, Johns-Manville Corporation, Denver, Colorado, September 15.

Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.

Charles D. Harless, Vice President-Western Sales, Building Products Division, National Gypsum Co., Long Beach, California, September 17.

Albert Strodtbeck, Secretary, The Clark Asbestos Co., Cleveland, Ohio, September 17.

Walter F. Marcuse, President, Canadian Asbestos Co., St. Laurent, Montreal, Quebec, September 18.

D. M. Pearson, Vice Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 18.

Arthur J. Steneri, Foreign Project Manager, Johns-Manville International Corporation, September 18.

J. D. Christian, Chairman of the Board & President, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, September 19.

W. W. Oughtred, President & Chief Executive Officer, Asbestos Corporation Ltd., Thetford Mines, Quebec, September 19.

William R. Whitener, Sales Manager, Atlas Asbestos Co., Alhambra, California, September 20.

Philip M. Malouf, President, United Asbestos Corporation Ltd., Montreal, Quebec, September 21.

John B. Proctor, Vice President-Engineering, National Gypsum Co., Buffalo, New York, September 21.

Victor J. Laskoski, Marketing Manager-Asbestos Fibers, Industrial Products Division, GAF Corporation, New York City, September 22.

Jay P. Nicely, Vice President-Sales, Building Products Division, National Gypsum Company, Buffalo, New York, September 22.

Richard F. Dooley, Vice President, United Asbestos Corporation, Ltd., Montreal, Quebec, September 24.

Jack B. Stiles, Works Manager, Wunderlich Ltd., Rosehill, N.S.W., Australia, September 24.

Win Brown, Vice President, MacArthur Co., St. Paul, Minnesota, September 25.

H. Leonard Falle, Vice President-Marketing and a Director, Atlas Asbestos Co., Montreal, Quebec, September 26.

D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

Fred C. Phillips, Director of Marketing, Fiber and Textile Division, Uniroyal, Inc., Winnsboro, South Carolina, September 28.

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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.

So people monitor the automated mills on closed-circuit TV.

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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.

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

Gold Bond
ASBESTOS FIBRES

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Sir William C. Fenton, Honorary President, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 29.
W. N. Plumb, Chief Geologist, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, September 29.
William K. Murray, Director of Advertising & Public Relations, American Smelting & Refining Co., New York City, September 30.
Harry J. Demare, Plant Manager, Asbestos-Cement Plant, National Gypsum Co., New Orleans, Louisiana, October 1.
Wolf E. Lehmann, General Manager for Europe, Africa & Middle East, International Division, Johns-Manville Corporation, October 1.
Richard P. Stout, Director of Research & Development, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, October 2.
Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Ltd., Montreal, Quebec, October 3.
Richard P. Clark, Product Sales Manager, Uniroyal, Inc., Winnsboro, South Carolina, October 4.
W. D. Gaches, President, Johns-Manville Irrigation Corporation, Manasquan, New Jersey, October 4.
John G. Cole, Mine Manager, Advocate Mines Ltd., Baie Verte, Newfoundland, October 5.
Maurice Hartke, Plant Manager, Philip Carey Co., Linden, New Jersey, October 5.
P. C. Barr, Managing Director, Hindustan Ferodo Ltd., Ghatkopar, Bombay, India, October 6.
F. A. Cunnington, Vice President-Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, October 8.
Jack Scheckowitz, Vice President-Advertising & Sales Promotion, GAF Corporation, New York City, October 8.
Edward A. Schuman, Product Manager, Sheets and Cut Gaskets, Johns-Manville Corporation, October 9.
A. H. Adams, Vice President-Engineering, C-E Bauer, Subsidiary of Combustion Engineering, Inc., Springfield, Ohio, October 10.
J. G. Berry, General Manager and a Director, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, October 11.
A. L. Penhale, Vice Chairman, Asbestos Corporation Ltd., Thetford Mines, Quebec, October 11.
Gordon G. Hazell, Manager, Technical Sales and Field Engineering, Building Products Division, GAF Corporation, New York City, October 13.
Kenneth M. King, Jr., Vice President-Special Services, Bird & Son, Inc., East Walpole, Massachusetts, October 14.

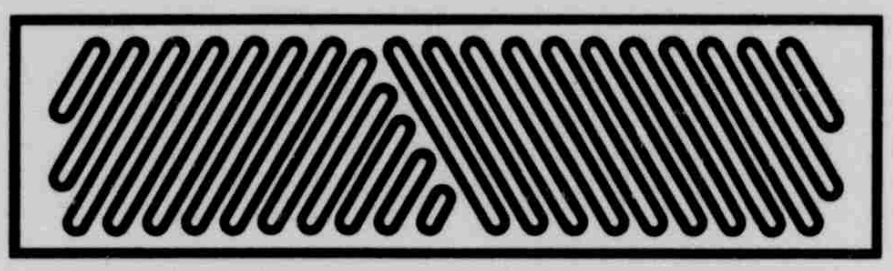
PAUL J. SMITH HONORED

Committee D-13 on Textile Materials of the American Society for Testing and Materials, at its recent meeting held in New York City, honored Paul J. Smith for his many years as ASTM technical liaison representative to the Committee. Mr. Smith was presented with a plaque, symbolizing his having been selected as an Honorary Member of D-13.

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- Minimum wear – no sharp edges developing.

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NOTES FROM 1971 ANNUAL REPORTS

ADVOCATE MINES LTD.

Net income for Advocate Mines Ltd. was $1,824,000 or 17¢ per common share, after providing for preference dividends of $806,000 earned in 1971. This compares with net income in 1970 of $1.4 million or 11¢ per common share. Cash from operations was $3,238,000, of which $262,000 was applied for fixed asset additions. The "Bottle Neck Removal Program" was completed in the crushing and drying building and continued emphasis was placed on environmental control in the milling operation. During the year, a computer mining program was successfully developed for the mine. The benefits derived from the program are a reliable mining sequence for both short-term and long-term planning and for the elimination of undue fluctuations in total annual tons moved.

The Advocate plant was one of two of the twelve reporting mines and quarries in Newfoundland to record the achievement of "no lost time accidents" in 1971.

During the year, 2,573,200 tons of ore, 6,589,000 tons of waste and overburden, and 242,000 tons of road rock were mined. This provided a total of 9,404,200 tons, with a waste-to-ore ratio of 2.56:1, against 3.85:1 in 1970. The crushing and drying plant received 2,429,500 tons of ore, with a recovery of 3.12%. The mill operated 335 days and produced 70,614 tons of A-25 fiber and 5,107 tons of A-35 fiber, at a total value of $13,946,000. Shipments exceeded those of 1970 by 10% and included 65,221 tons of A-25 fiber and 4,007 tons of A-35 fiber.

At December 31, 1971, reserves amounted to 57,332,000 tons. Some development drilling was done during the year and additional drilling is planned for 1972.

Canadian Johns-Manville Co. Ltd. is Manager of the Advocate Mines operations located at Baie Verte, Newfoundland.

CERTAIN-TEED PRODUCTS CORPORATION

The most profitable year in the history of Certain-Teed Products Corporation was achieved in 1971, reflecting some fundamental changes that have taken place in the company's direction, in its product mix and in its capabilities. Over the past ten years, Certain-teed has made significant strides toward establishing product lines having a strong technological base with the resulting opportunities for higher profit margins and more sustained and continuous earning power. The program started in 1962 when Certain-teed entered into agreements with Turner & Newall Ltd. to acquire its U.S. interests in asbestos-cement pipe. Certain-teed is now the second largest U.S. producer in this field. The firm is also the second largest U.S. producer of glass fiber insulation products and the largest producer of PVC piping products.

A major effort was launched in 1971 to strengthen the company's reputation as a leading producer of asbestos-cement and PVC pipe

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and to diversify the product line of the Piping and Plastics Group to encompass new products and services which lend themselves to a wide range of underground applications. As part of the program, Certain-teed acquired Nordix Corporation of Houston, Texas, a manufacturer and distributor of precast concrete and multiduct conduit for telephone and electrical utilities. Also, a new company was formed in 1971 called Certain-teed/Daymond Company, jointly owned by Certain-teed and Daymond Ltd., a leading Canadian producer of polyethylene pipe.

Sales for Certain-teed in 1971 rose to $331,681,299 and net income reached $15,070,311. Primary earnings per share of common stock amounted to $3.04. During the year, the company increased its sales by $78 million, its earnings by $11 million, its working capital by $5 million, its total assets by $33 million and its net worth by $14 million.

H. K. PORTER CO., INC.

H. K. Porter Co., Inc., reported net sales in 1971 of $253,599,652, compared with $278,914,530 in 1970. Net income from operations amounted to $2,774,017 compared with $1,844,662 in previous year. After extraordinary items, Porter had a profit of $2,605,587, against a loss of $1,911,264. Capital expenditures for plant, property and equipment totaled $6,330,960, exceeding depreciation by $642,574.

The company continued its program of eliminating unprofitable operations and increasing liquidity. The Pascagoula Works of the Refractories Division and the Thermoid operations of Porter Australia were sold. In December, Porter acquired all of the minority interest in Brakemasters Ltd., of Melbourne, Australia. Late in February 1972, all of the stock of Disston, Inc., a wholly-owned subsidiary, was sold through a public offering.

Thermoid Division—Over $1 million was spent at the Bennettsville works to provide a modern dust collection, air conditioning and humidity control system. A new yarn treating tower at the Amco Works increased capacity about 50%. The old Quaker Works was phased out and all rubber hose operations were consolidated in the new ultra-modern Bellefontaine hose plant. All friction operations are now concentrated at the Amco and the Richmond Works; all hand-built plastics, ducting and silicone operations are located at the Chanute Works; and all asbestos products are being produced at the Charlotte and the Bennettsville Works. Requirements for noise and dust control materials are expanding rapidly and the Asbestos Group developed a new sound control cloth that has found wide acceptance. There is also a growing demand for silicone and neoprene ducting for dust control and air conditioning applications. The Thermoid Division is expanding the automotive disc pad line and will market a new truck disc pad set and a new non-asbestos clutch facing. Several research and development programs are underway to develop new products for the automotive and truck industries that will provide major quality improvements and increased safety margins, as required under the new standards of the Department of Transportation.

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Albany's pacesetter felts help you make more profit.

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

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MEN ON THE MOVE

BELL ASBESTOS MINES LTD.

F. Parker Smith was appointed Vice-Chairman of the Board, having retired as President effective July 1st. **Marcel Dorais,** formerly Executive Vice President, was appointed President and General Manager.

CERTAIN-TEED PRODUCTS CORPORATION

Theodore F. Merkel, Comptroller, announced the appointment of **Leonard J. LeBlanc** as Director of Financial Analysis and Auditing, a position previously held by **Barry C. Burkholder** who was recently promoted to Assistant Vice President and Special Assistant to **E. A. Diefenbach,** Vice President of Finance. . . . **Douglas J. Murray** has joined Certain-teed as Assistant to Senior Vice President **Byron C. Radaker.** Mr. Murray had previously been President of Nayadic Sciences, Inc., a minority-owned subsidiary. . . . **David A. Kerley** was named Sales Manager of K.O.B. Carpets, a wholly-owned subsidiary, it was announced by K.O.B. President, **Robert O'Brien.**

RAYBESTOS-MANHATTAN, INC.

Robert M. Gordon, President of R/M's subsidiary, The Milford Rivet & Machine Company, was elected to the Board of Directors, it was announced by **William S. Simpson,** R/M Chairman of the Board and President. . . . **Philip G. Dolan,** Director of Marketing Services, announced the appointment of **Lee R. Hossler** to the new post of Advertising Collateral Manager. Mr. Hossler joined the company in 1957.

SFROUT, WALDRON & CO., INC.

L. L. Murray, Vice President of Sales and Engineering, announced the appointment of six new sales representatives in conjunction with a major realignment of several of the company's U.S. sales territories. The new sales representatives include **Robert E. Manchester, Karl E. Mannschreck, James M. Rogers, Lionell Stephens, Richard L. Stewart and Denny M. West.** . . . The following three veteran employees were transferred to new assignments within the firm: **Erskin Good,** Manager of the warehousing facilities at St. Joseph, Missouri; **Charles W. Johnson,** Administrative Assistant at the St. Joseph Branch of the Contracts and Systems Division; and **Richard N. James,** Service Representative for the Midwest area.

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

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

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ASBESTOS STOCK QUOTATIONS

CLOSE—JULY 18, 1972

Abitibi Asbestos	*$2.55	Gulf & Western	34¼
Advocate Mines	*$1.65	G&W (pfd 3.50)	143⅝
Allied Mining	*$3.20	G&W (pfd 3.87)	68½
Asarco	19	G&W (pfd 5.75)	69½
Armstrong Cork	34¼	Illinois Central	31
Armst Cork (pfd 3.75)	55½	Ill. Central (pfd 3.50)	55¼
Asbestos Corporation	*$21.25	Johns-Manville	31¼
Bendix	46¼	Kennecott Copper	21⅝
Bendix (pfd 3)	71¼	Maremont	31
Carlisle	21⅛	McAdam Mining	*$50.00
Cassiar Asbestos	*$16.00	National Gypsum	17½
Cerro Corporation	12⅝	Natl Gypsum (pfd 4.50)	70
Certain-teed Products	49⅝	Pathfinder	*$1.21
C-teed (when issued)	25	Porter (pfd 5.50)	82½
Conwest	*$6.75	Raybestos-Manhattan	27⅞
Flinkote	25⅝	Rio Algom	*$20.25
F-kote (pfd-A 4.50)	77½	Royal Industries	12⅜
F-kote (pfd-B 2.25)	37	Unarco	14⅞
Freeport Minerals	18½	Union Carbide	45⅝
GAF Corporation	22⅝	Uniroyal	16
GAF (pfd 1.20)	28¾	Uniroyal (pfd 8)	103
Garlock	19⅛	United Asbestos	4
Grace	25⅜		

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

ASTM STANDARDS

C 421 71—Test for Mechanical Stability of Preformed Thermal Insulation by Tumbling. [Revision of Standard; Approved December 22, 1971; Reference Part 14, 1972; $1.25]

C 447 71—Determining Maximum Use Temperature of Preformed High-Temperature Insulation. [Revision of Standard; Approved December 22, 1971; Reference Part 14, 1972; $1.25]

C 500 72—Testing Asbestos-Cement Pipe. [Revision of Standard; published February 1972; Reference Part 12, 1972; $1.25]

D 8 71—Definitions of Terms Relating to Materials for Roads and Pavements. [Revision of Standard; Approved November 22, 1971; Reference Parts 10 & 11, 1972; $1.25]

F 146 72—Test for Fluid Resistance of Gasket Materials. [New Standard; Published March 1972; Reference Part 28, 1972; $1.25]

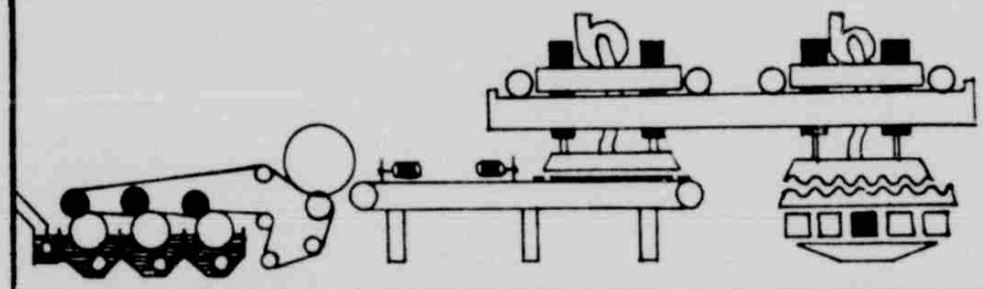
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NEW ASBESTOS PATENTS

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 1,263,812—A composition for forming polymeric sheets that may be thermoformed or cold-pressed consists of bleached sulfate wood pulp, acylonitrile butadiene-styrene powder and latex, and high-purity Chrysotile asbestos as a precipitant, and optionally a foaming agent; P. L. Gibson & B. Radvan, assigned to Wiggins Tape Research & Development, February 16, 1972; 8 pages.

British 1,266,054—Slabs for insulating steel ingots are formed from a mixture comprising preferably about 42% by weight of silica flour, 21% of silica sand, 20% of sodium carbonate, 10% of dry powdered sodium silicate, 6% of waste paper and 1% of Amosite asbestos fiber; A. McDonnell; assigned to Foseco Trading AG, March 8, 1972; 3 pages.

U.S. 3,644,138—The filtration property of asbestos is improved by spraying the fibers with a solution of aluminum sulfate and then passing the coated fibers under drying lamps to evaporate the water and leave aluminum sulfate-coated dry fibers; C. E. Stiefken; assigned to American Smelting and Refining Co., February 22, 1972; 5 pages.

U.S. 3,647,722—In the production of friction elements, at least 70% by weight of asbestos is mixed with up to 30% of friction modifiers, the solids slurried in a solvent and a phenolic resin-type varnish, the solvent evaporated and the resin heat-cured; C. E. Albertson & H. S. Okubo; March 7, 1972; 5 pages.

U.S. 3,647,744—A brake lining composition having good resistance to wear is obtained by adding to the usual batch of asbestos and a resin preferably about 7% by weight of sodium fluoride instead of the usual cryolite; W. L. Rich & M. H. Weintraub; assigned to Ford Motor Co., March 17, 1972; 3 pages.

U.S. 3,650,886—In the preparation of a colloidal suspension for use as a thickener or in water-base paints, an aqueous slurry of Chrysotile asbestos and hydrogen hectorite is subjected to high-speed shearing until the bulk of the fiber is of colloidal size; A. Torok; assigned to Yara Engineering Corporation, March 21, 1972; 5 pages.

U.S. 3,652,382—In the production of an asbestos product of high surface area, Chrysotile is defiberized in the presence of a dilute mineral acid, the freed fibrils further treated with an acid to form a layer of silica on the fibrils, the silica dissolved with an alkali and the fibrils washed to remove excess alkali; A. B. Gancy; assigned to FMC Corporation, March 28, 1972; 3 pages.

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CALENDAR OF EVENTS

Thermal Insulation Association of Canada—10th Annual Meeting (held in conjunction with the World Conference of Thermal and Acoustical Insulation); Brussels, Belgium, *September 10-13.*

Asbestos Textile Institute—General Meeting; Seaview Country Club, Absecon, New Jersey; *September 18-20.*

Noise in Manufacturing Plants Seminar—presented by L. N. Miller of Bolt Beranek and Newman Inc.; *September 18-20* in Detroit, Michigan; *October 2-4* in Kansas City, Missouri; and *October 16-18* in Atlanta, Georgia.

Managing the Industrial Engineering Function Workshop—University of Wisconsin-Extension, Milwaukee, Wisconsin, *September 19-20.*

IEEE-TAP Environmental Conference—National Bureau of Standards, Gaithersburg, Maryland; *September 20-22.*

The Institution of Mining and Metallurgy—General Meeting; Lecture Theatre of The Chemical Society, London, England; *September 21.*

National Environmental Information Symposium—sponsored by the Environmental Protection Agency; National Environmental Research Center, Cincinnati, Ohio; *September 24-27.*

ASTM Committee D-30 on High Modulus Fibers and Their Composites—Holiday Inn, Palm Beach, Florida; September 25-28.

International Building and Construction Exhibition—sponsored by the Irish Construction Industry Federation; Dublin, Ireland; *October 3-7.*

Inter-Noise 72—the first International Noise Control Engineering Conference and Equipment Exposition; Shoreham Hotel, Washington, D.C.; *October 4-6.*

Eastern Atlantic States Insulation Contractors Association—Fall Meeting; Tamiment Resort and Country Club, Tamiment (Pocono Mts.), Pennsylvania; *October 5-6.*

Midwest Insulation Contractors Association—Fall Meeting; Hilton Hotel, Omaha, Nebraska; *October 5-6.*

Instrument Society of America—27th Annual Conference; Coliseum, New York City; *October 9-12.*

ASTM Committee F-3 on Gaskets—Sheraton-Boston Hotel, Boston, Massachusetts; *October 12-13.*

ASTM Committee C-16 on Thermal and Cryogenic Insulating Materials—Holiday Inn, Ottawa, Canada; *October 15-18.*

ASTM Committee C-20 on Acoustical Materials—Playboy Towers, Chicago, Illinois; *October 16-18.*

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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'.

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Remember When?

(August 1922 ASBESTOS)

New Advertisers:

West Coast Asbestos Co.
The Carn Brea Asbestos Syndicate

The lead article in this issue described, in great detail, the many uses of various forms of asbestos in the electrical insulation of motors and generators.

Figures on the use of automobiles in Japan indicated imports of motorcars had increased from 30 in 1915 to 1074 in 1921.

It was announced that Oliver Bowles, Mineral Technologist with the U.S. Bureau of Mines, was honored with the degree of Doctor of Philosophy by George Washington University. (Many of our present readers will recognize the late Dr. Bowles as our Government's outstanding expert on asbestos for many years.)

A delayed report from the Department of the Interior indicated production of asbestos in the U.S. for 1920 of 1245 short tons of Chrysotile and 403 tons of Amphibole. Of the Chrysotile, 1200 tons were produced in Arizona.

The Cape Asbestos Company reported earnings after taxes of £17,396 for the year 1921.

Announcement was made of the death of J. D. Sharpe, Manager, Asbestos Corporation of Canada, Ltd., of Thetford Mines, P.Q.

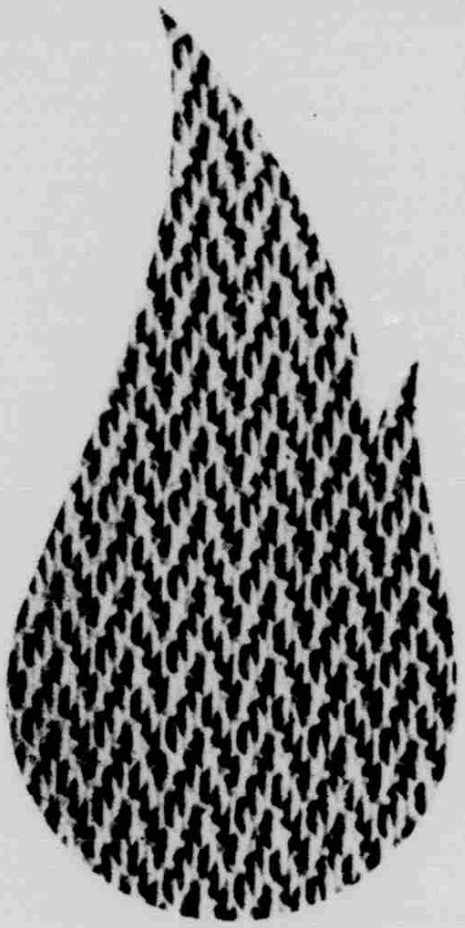
It was reported that T. F. Manville, President of the H. W. Johns-Manville Company, together with twenty-nine members of his staff traveled by special Pullman Car to Vimy Ridge and thence to Thetford Mines on a tour of the asbestos mines in those areas.

Maple Leaf Asbestos Corporation Ltd. announced the opening of a U.S. General Sales Office in New York City.

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Raybestos RM Manhattan

ASBESTOS TEXTILE DIVISION BRIDGEPORT, CONN.

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Two good starts...

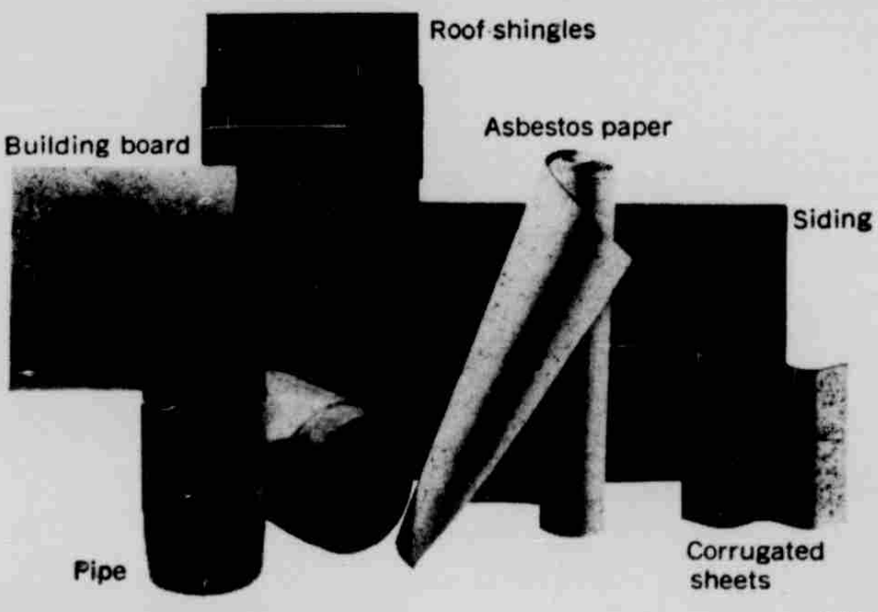
Start with GAF asbestos fibers and DRYLON® synthetic fiber felts and you'll end up way ahead in end-product quality.

Our involvement with asbestos fiber starts at our own Vermont mines. We control the quality from start to finish. And our standards are high. Partly for selfish reasons. Because much of the fiber ends up in our own asbestos products.

And asbestos fiber is only part of our story. If you make asbestos-cement products, get another head start with Drylon synthetic felt. It drains better, stays clean and keeps its shape longer, and imparts a smoother, more uniform finish to your product.

Put this starting team of quality GAF products to work for you. For full details write to: GAF Corp., Industrial Products Division, 140 W. 51 St., New York, N.Y. 10020. International Operations, 1180 Avenue of the Americas, New York, N.Y. 10036.

toward a lot of happy endings.



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