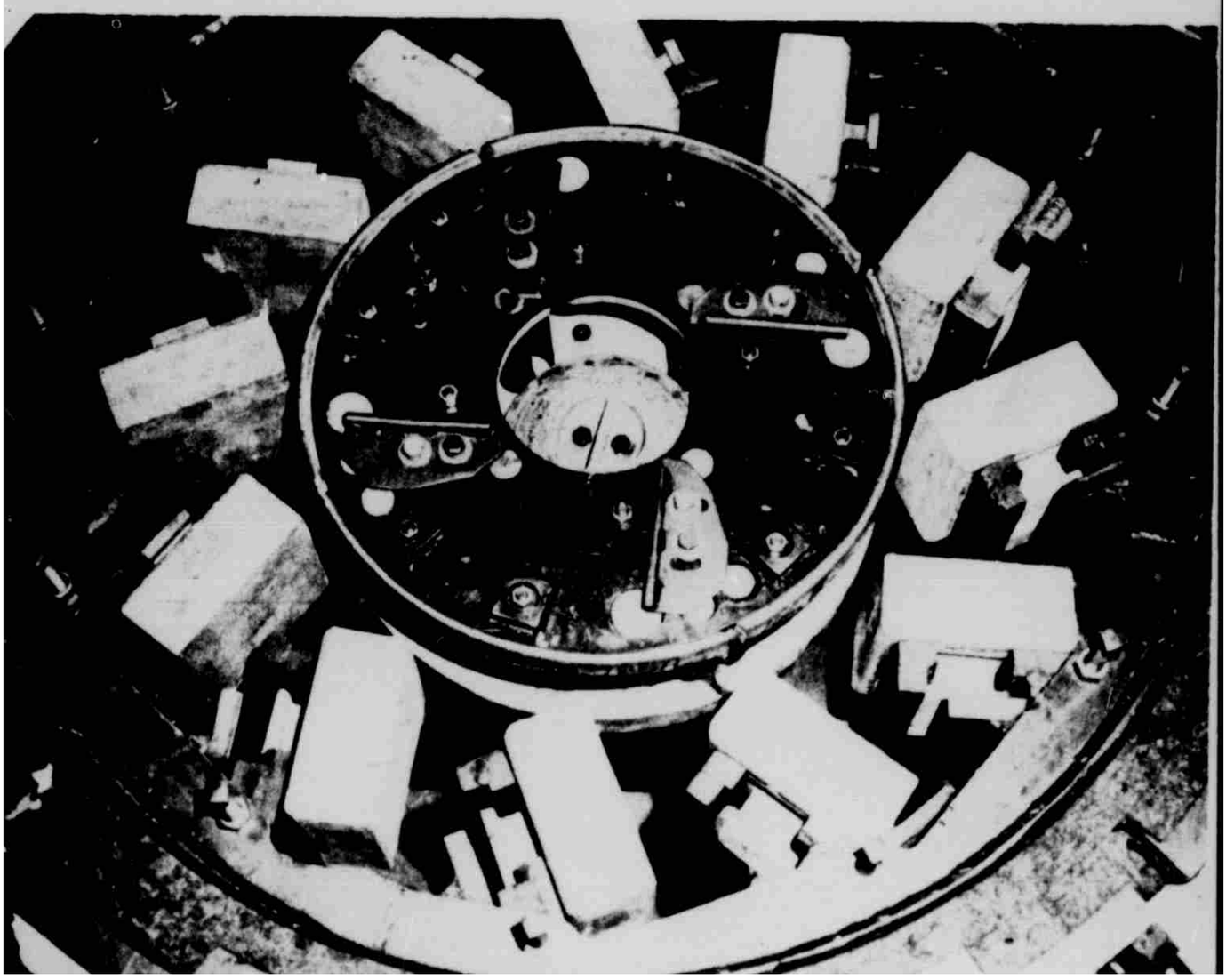
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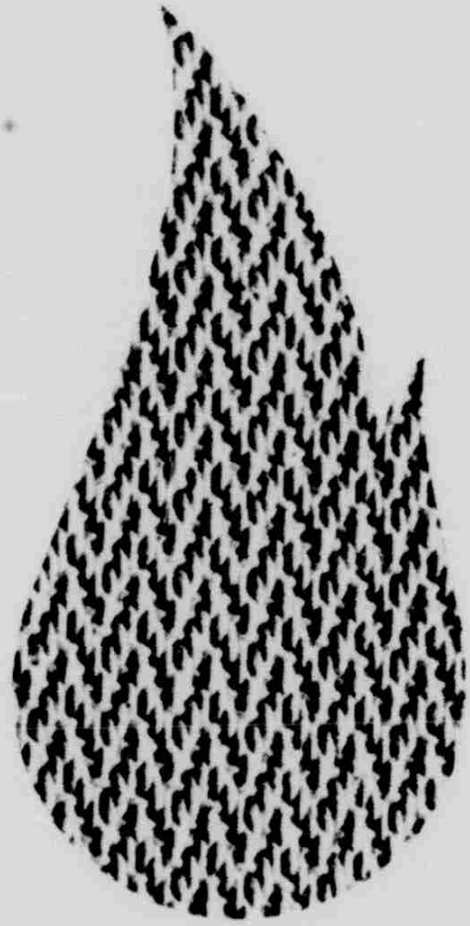
Textile History of Union Asbestos & Rubber
The Simplicity D'CENTEGRATOR Pulverizer



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ASBESTOS

VOLUME 53 SEPTEMBER 1971 NUMBER 3

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XIV: Union Asbestos & Rubber Company (now Unarco Industries, Inc.)

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

The history of Union Asbestos & Rubber Company is the life story of L. Lewis Cohen. Born in Chicago, Illinois, in May 1891, Lou Cohen began his remarkable career at the tender age of 14 as special delivery boy for Postmaster Busse. [Mr. Busse later became Mayor of Chicago.] At 16 Lou Cohen was Secretary to the Vice President in charge of the operations of the Harriman Lines and traveled extensively on the Southern Pacific, the Union Pacific and the Alton Railroads. This "railroad experience" was to be a major factor in the shaping of Lou Cohen's business career and of the policies of the company he was later to direct. He gave up railroading when he was 22 to become a salesman for Johns-Manville Corporation in a territory encompassing the West and Southwest areas of the country.

Two years later he returned to Chicago and with Carl Mosier organized and founded the railway supply firm of Union Supply Company.

In March 1918 Union Supply was dissolved and the successor company, Union Asbestos & Rubber Company, was incorporated. Union Asbestos was also a jobber of railway supplies in addition to assembling finished products for marketing under its own brand names.

Joseph H. Kuhns left Republic Rubber Company in May 1920 to join Union Asbestos as Vice President in charge of Eastern railroad sales.

In 1922 William R. Gillies developed INSUTAPE, a flexible asbestos tape consisting of a fabric jacket and a soft roving stuffer. The material proved to be advantageous for insulating "hard-to-get-at" pipes on steam locomotives. INSUTAPE achieved almost universal acceptance among railroads and was an important factor in the growth of the

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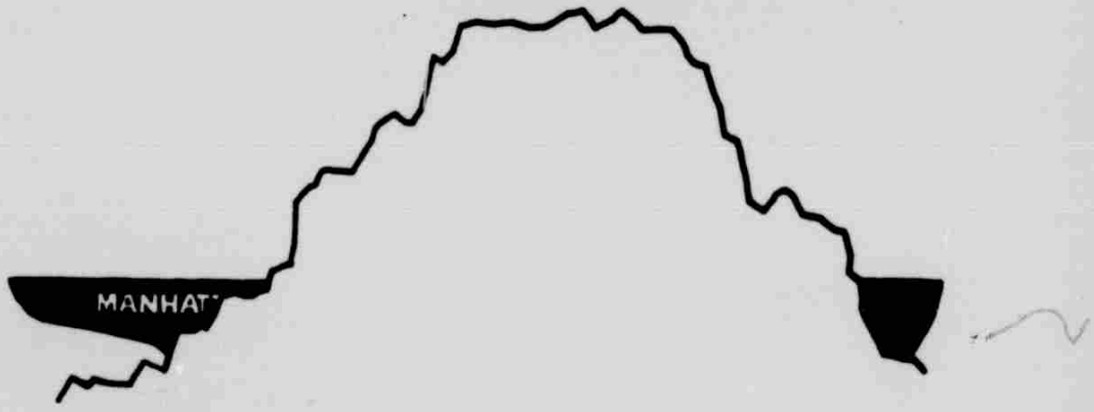
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fledgling Union Asbestos & Rubber Company.

By 1926 the rapidly-expanding business warranted the company erecting its own manufacturing facilities. Chester L. Hill supervised the construction of a plant in Cicero, Illinois, for the production of asbestos textiles, insulations, packings, gaskets and rubber products. The plant was considered one of the finest asbestos textile plants in the Mid-West.

Arthur R. Byrnes joined Union Asbestos in 1927. He specialized in the sale of textiles and packings and in later years he supervised the sale of these two product groups.

In 1928 Rudolph Wild was busy promoting the sale of NON-SCOR woven brake lining. This product earned a portion of the original equipments business on the famous Model "A" Ford. The same looms that wove these brake linings also wove several million feet of critically needed parachute webbing during World War II.

In 1929 Robert E. Cryor joined Union to work in the Research Laboratories. In 1934 he was appointed Manager of the Watseka, Illinois, plant and in 1963 he returned to Cicero as Manager of the Research Laboratories.

In 1932 Bill Gillies and Oscar Rudolph developed WOVENSTONE pipe covering, a unique product that gained wide acceptance as train line insulation.

In 1934-36 Rudi Wild developed UNIBESTOS pipe insulation and INSUBESTOS woven felt for the U.S. Navy. These lightweight Amosite insulations were used on most naval vessels constructed during World War II.

John H. Balch was elected Secretary of the Corporation in 1938. At the time of his retirement in 1967 he held the offices of Senior Vice President and Treasurer.

During most of World War II asbestos textiles were in critically short supply. Early in the War the standard Navy Specification lagging cloth weighed 2¼ lbs. per square yard. About 1944 Union Asbestos developed an asbestos-glass cloth that weighed only 1¼ lbs. per square yard and which served the same purpose. Only one pound of asbestos yarn was required to produce a yard of the asbestos-glass fabric. This development more than doubled the yardage which could be produced from a ton of asbestos spinning fiber. The asbestos-glass fabric designed by Union Asbestos is still included in the Navy's asbestos cloth Specification and is regularly woven

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by all major manufacturers of asbestos textiles.

In 1940 Navy demands for UNIBESTOS pipe insulation and INSUBESTOS woven Amosite felts necessitated opening a separate plant in Paterson, New Jersey, to augment the production of these products. Bob Cryor was appointed Manager of the Paterson plant in 1941.

In 1944 Bob Cryor returned to Cicero to manage the main plant. In 1946 he was elected Vice President and General Manager and in 1948 became a Director and Member of the Executive Committee. He served as the fourth President of the Asbestos Textile Institute in 1951-52.

Union Asbestos' contribution to the war effort of high temperature Navy thermal insulations and of other asbestos textile products was substantial. The first Army/Navy "E" awarded in the Asbestos Industry was in 1942 to the Union plant at Paterson, then managed by Bob Cryor. Subsequently the Cicero and Paterson plants were honored with a total of eight additional "E" awards. Immediately after VE Day in 1945 Bob Cryor was nominated by the War Production Board as the representative of the asbestos textile industry to investigate asbestos and asbestos textile developments in Germany. At the end of August 1945 he was sent to Germany for three months as a member of the Technical Industrial Intelligence Committee of the Joint Chiefs of Staff. He carried with him the rank of Colonel.

Lou Cohen continued as the moving spirit of Union Asbestos, became Chairman in November 1941 and held that office until his untimely death in October 1946.

In January 1947 Union purchased the two asbestos textile mills operated by Carolina Asbestos Company at Davidson and Marshville, North Carolina. C. H. Carlough, President of Carolina Asbestos, became a Vice President of the parent company and the asbestos textile operations at Cicero were then transferred to the Southern plants.

The Davidson plant was re-acquired by Herb Carlough in 1950 and Union's asbestos textile operations were concentrated at Marshville.

A large plant at Bloomington, Illinois, was acquired in 1950 and equipped to manufacture a variety of fibrous products. In 1951 Bloomington became the headquarters for asbestos textile operations, under Vice President Emil Johnson

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and Sales Manager Erle (Mickey) Plummer. Emil Johnson served as a member of the Air Hygiene Committee of the Asbestos Textile Institute in 1952-53 and Mickey Plummer was a member of the Sales Promotion Committee. It is interesting to note here that Union Asbestos was a Charter Member of ATI and was represented by Lou Cohen and Rudi Wild at the Organizational Meeting on November 16, 1944. The company resigned its membership of the Institute on January 1, 1956.

Between 1937 and 1950 Union Asbestos acquired six additional plants for the manufacture of products unrelated to asbestos textiles. This diversification program materially altered the objectives of the management and as a result Union's thermal insulating materials lines were acquired by Pittsburgh Corning in 1962 and in 1963 the Marshville plant was sold to Johns-Manville.

Since the name "Union Asbestos & Rubber" no longer adequately described the business of the company, the name of the firm was officially changed April 17, 1963, to Unarco Industries, Inc.

Under President Edwin E. Hokin, Unarco is today a widely diversified and successful company. Nevertheless, a considerable portion of the sales emphasis is still devoted to the railroad and transportation industries, as originally envisaged by co-founder Lou Cohen in 1918.

Next Issue . . . .

Chapter XV: Multibestos Company

THE COVER

Simplicity Engineering Company, Durand, Michigan, introduced a new and improved D'CENTEGRATOR Pulverizer successfully used in the milling of asbestos ores. The new design, as illustrated on our front cover, is fully described in the article by Mr. H. C. Jessen which begins on page 10 of this issue.

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THE SIMPLICITY D'CENTEGRATOR PULVERIZER

By: H. C. Jessen, Consulting Engineer

[Mr. Jessen was formerly Project Manager with Johns-Manville Corporation. We are indebted to him for contributing this excellent and informative article.]

The extraction of asbestos fiber from asbestos-bearing ore is a specialized process requiring equipment somewhat different from that normally used in the mining field. An important part of the asbestos extracting process is the fiberizing of the ore, a process whereby the fiber is released from the rock, fiberized, and made suitable for recovery by use of an air-lift.

Over the years many different designs of fiberizers have been used, most of them utilizing high velocity hammer blows in single or multiple stages and in a variety of arrangements. Because of the abrasive nature of the asbestos-carrying ore, a large portion of the operating cost is caused by wear of the hammers and anvil blocks. Much effort on the part of the machinery manufacturers has been put forth to improve the wearing qualities of these parts by use of better and harder materials and by improving the design so as to simplify the replacement problem.

The Simplicity Engineering Company, Durand, Michigan, introduced its D'CENTEGRATOR line of fiberizers to the Asbestos Industry in the late 1950's and Model 24-A, in particular, met with considerable success. Since then a series of improvements to Model 24 and Model 40 have been made. The latest improvements are significant and should be of interest to those involved in the milling of asbestos ores.

ORIGINAL DESIGN

The original design and the internal arrangement of Simplicity Engineering's Model 24-A D'CENTEGRATOR are shown in *Figures 1 and 2* on page 12. For those not familiar with this machine, it is a pulverizer equipped with a vertical shaft which is driven by means of a V-belt located underneath the machine and powered by a standard motor mounted in a vertical position. An impeller, mounted on the vertical shaft, has a central opening which receives the feed.

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The impeller operates at high speed and flings the ore towards 12 adjustable anvil bars. These bars are individually adjustable toward the impeller and this feature permits adjustments for wear and for changes in the desired product.

A somewhat larger D'CENTEGRATOR, the Model 40-A, was also introduced at the same time. This unit is similar to the Model 24-A except that it is larger and has the drive located on top of the machine instead of at the bottom.

The two models, particularly the 24-A, were used extensively in asbestos milling and were doing a fine job so far as fiberizing was concerned. The cost of the units was com-

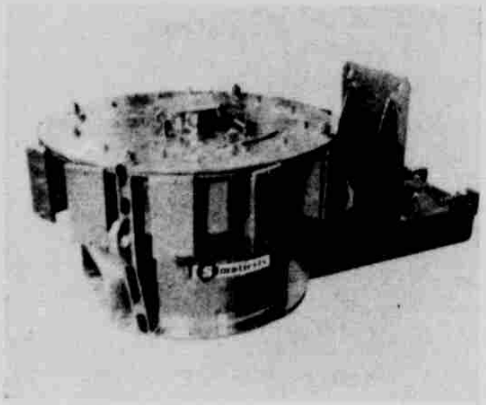
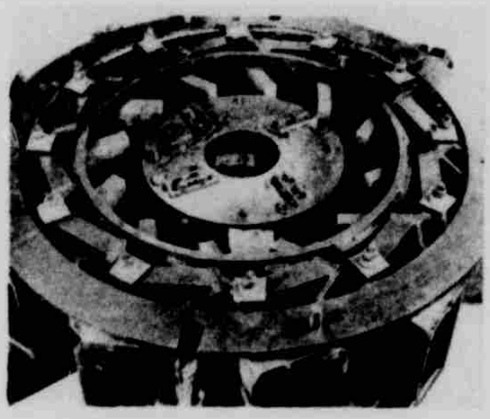


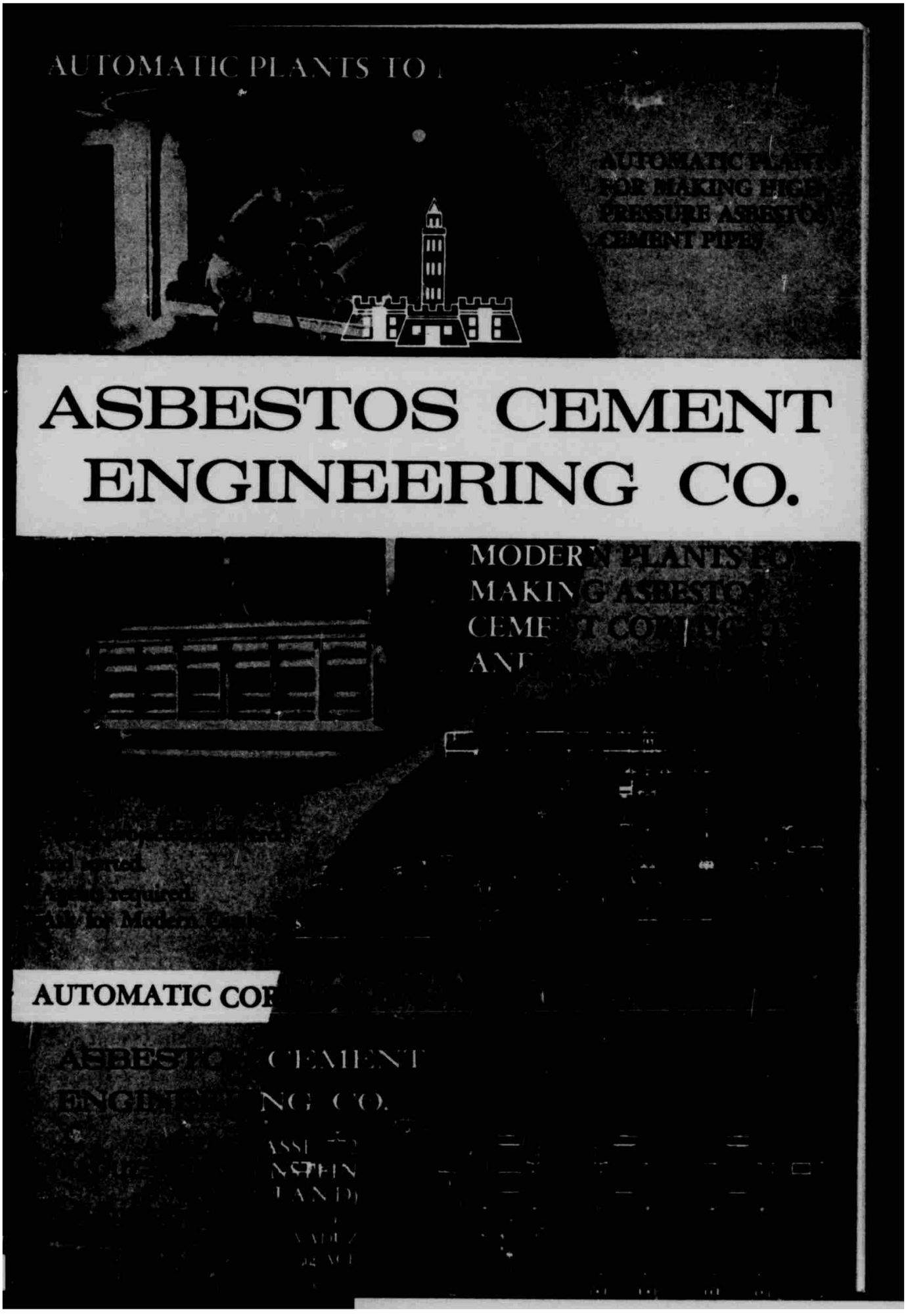
Figure 1

Figure 2



petitive, the power consumption reasonable and the maintenance cost was in line with competitive units. Experience with these units has shown that the wear of the breaker bars occurs in such a manner that it is not always possible to compensate for wear by advancing the bars toward the impeller as originally intended. Instead of wearing evenly across

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the face of the bars, the wear cuts a narrow slot in the bars. Compensation for wear presented a problem in that the bars either had to be turned end for end, or squared off so as to present a new wearing surface.

It was also difficult to gain access to the top of the machine to check the adjustment of the breaker bars. To do this, it was necessary to remove the top plate of the unit, which often meant that the feed spout also had to be removed with the expenditure of considerable time and effort.

IMPROVED DESIGN

Simplicity Engineering Company has now introduced a new design with some very noticeable improvements. The design of the breaker bars has been completely changed. This new design is illustrated on the *front cover* of this issue of ASBESTOS.

In the new design the breaker bars have been replaced by impact anvils, mounted in slots, making it possible to lift the anvils and to turn them 90°, thereby providing three additional wearing surfaces. The material in the anvil blocks is very hard, roughly comparable to Ni-Hard, but is not so brittle as Ni-Hard. The impact anvils can be adjusted toward the impeller to provide the correct clearance to obtain the desired product. This feature is the same as in the old design.

Another very important change has been made in the design. Referring to the former design (Model 24-A), one will notice that adjustment and checking the position of the anvil blocks required removal of the top plate, making the adjustment awkward and time-consuming.

In the new design (see *Figures 3 and 4* on page 15), the side of the crusher has been extended upwards and is equipped with inspection doors. These doors permit easy and quick adjustment and replacement of the anvil blocks without disturbing either the top weldment or the feed chute attached to the machine.

As mentioned before, the asbestos fiber can best be released from the rock components by a high-speed, pulverizing method. Pulverizers based on this principle create a great deal of windage because the high-speed rotor acts as a fan and builds up considerable internal pressure. In turn, this pressure will create a blast of air at the outlet of the pulver-

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izer and cause an annoying dust nuisance if not controlled or balanced by adding a suction connection or a by-pass to the pulverizer.

In the new design of the D'CENTEGRATOR there is ample space above the impeller to relieve the built-up air pressure and, in fact, create an internal air circulation. The

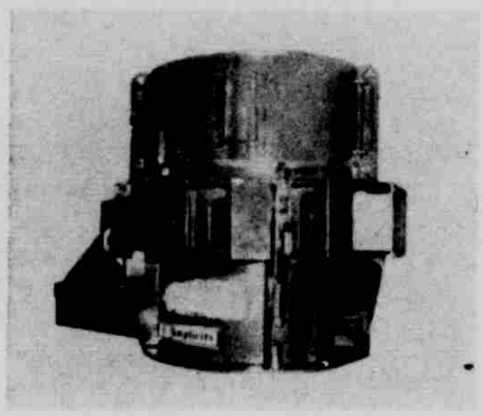
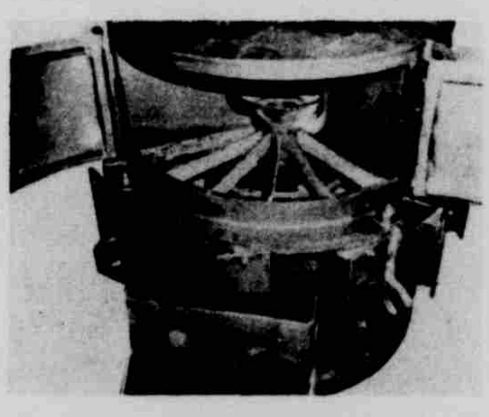


Figure 3

Figure 4



swirling action is also reduced or prevented by baffle bars (again refer to *Figure 4* on this page). As a result it is now possible to discharge the crushed material onto a screen or belt conveyor, or into a chute, without creating a serious dust problem.

In the Asbestos Industry the product from a fiberizer in the so-called "rock-line" (where the fiber releasing is primarily accomplished) is usually sent to aspirating screens. These screens are normally equipped with a dust hood and a suction connection for dust control. The suction is sufficient to control the dust problem at the screen and provides some addi-

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tional suction to overcome any need for dust control caused by the crusher discharge. Consequently, the new design eliminates the need for, and expense of, a dust control suction pipe to the pulverizer itself.

The larger model crusher, the 40-A, has been similarly redesigned. This is a rather recent development and neither illustrations nor photographs, as yet, are available.

OPERATING RESULTS

As illustrated below, with the introduction of improved models it was discovered that it was possible to apply increased horsepower and thereby obtain higher capacity. Comparative figures are as follows:

	OLD DESIGN	NEW DESIGN
Model	24-A	24-B
Horsepower Used	40-60 hp	75-100 hp
Capacity	40-60 t/h	75-110 t/h
Model	40-A	40-B
Horsepower Used	100-150 hp	150-200 hp
Capacity	100-125 t/h	125-200 t/h

It should be noted that the speed of the impeller, the size of the feed and the setting of the anvil blocks will affect capacity and power consumption. The toughness of the ore must also be taken into consideration. Actual crushing tests should be made to establish proper operating procedures.

MAINTENANCE COST

Replacement of wearing parts constitutes the most important maintenance cost of these pulverizers. Items such as lubrication and bearing replacement can be ignored. Because of the great variation in the toughness and abrasiveness of the ore, exact figures of the cost of replacing wearing parts cannot be given. The replacement cost of wearing parts, such as the rotor, center feed plate and anvils, might range from ¼ cent to ½ cent per ton of feed. This modest cost makes the

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machine highly competitive with other types of fiberizers available to the Industry.

The time required to open the inspection doors and turn the anvils is estimated to be 30 minutes and this can be accomplished by one man. It takes about the same time to adjust the anvils towards the impeller, but this is usually done only once to obtain the desired product and the setting is then not changed unless a change in product is desired.

If it is necessary to replace the rotor and bearing assembly, this can be done by first removing the top housing. The rotor and bearing assembly can then be lifted out. The total operation, including the installation of new bearings and rotor and replacing the top housing, can be done by two men in about 4 hours.

From a maintenance standpoint, one should allow at least a 4′ clearance above the size 24 machine and a 6′ clearance above the size 40 machine. A service crane is not required to service the machines but it is advisable to make provision for the use of a chain hoist to remove the rotor assembly, should this be necessary.

GENERAL COMMENTS

The fiberizing of asbestos ore and the subsequent extraction of the fiber is one of the costliest phases of an asbestos milling operation. Over the years many improvements have been made toward reducing this cost and the Asbestos Industry has always been interested in any improvements along this line.

Simplicity Engineering Company merits recognition for its productive efforts in this area and for introducing the improved designs described in this article.

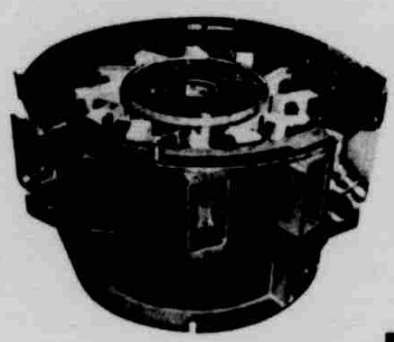
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Simplicity's newest D'CENTEGRATOR has 12 harder anvil heads, handy access doors, a lot less dust and your choice of two capacities . . .



Milling asbestos ore is really murder on breaker bars. Simplicity has changed its basic design from bars to impact anvils that are mounted in slots. With the new access doors, one man can adjust or change these anvils in minutes (without taking off the top plate). A new dust chamber above the impeller allows this Fiberizer to discharge onto a screen or belt conveyer without creating a serious dust problem.



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NEW FIBER RESEARCH UNIT FOR T&N

Turner & Newall Ltd. is to establish an additional fiber research unit to undertake long-term investigation into the technological and commercial possibilities of fibers, other than asbestos fibers, with potential value to the Group. T&N has for some time been doing a great deal of research into non-asbestos fibers, mainly at the laboratories of Turner Brothers Asbestos Co. Ltd. However, the need has been recognized for a highly specialized team to pursue research on a much broader plan than that covered by the activities of any one branch of the Group. Based at TBA's Rochdale location, the new unit will have access to TBA's sophisticated laboratory techniques such as electron microscopy and X-ray diffraction, as well as its experience in fiber research.

J-M & JPJ QUARTET COMMUNICATE

It was sired by three men, then four, who blended their individual talents as outstanding musicians to play for the world that truly American cultural creation—jazz. The musical group dreamed of making its music an international language strong enough to build bridges to span the "generation gap." The "time" for the idea came closer when Dr. W. Richard Goodwin, President of Johns-Manville Corporation (and jazz enthusiast), heard the Quartet perform. He was developing corporate plans of his own for a progressive program to make good on J-M's commitment and responsibility to assist youth in identifying with and relating to business and the free enterprise system. The JPJ Quartet and J-M blended their ideas, ambitions and commitments into a "New Communications in Jazz" program. The Quartet has been visiting J-M plant town communities and performing for high school audiences. Following a formal musical program, the Quartet invites the audience to take part in a "rap" session. Any topic of conversation is pertinent for discussion, music or otherwise. The new program will not only help youth to understand J-M and attract them as prospective employees and customers, but it will demonstrate to the community-at-large that J-M is a company that "cares."

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A/C IN THE GARDEN

Plastics, asbestos cement, concrete and wood are all competing for the rapidly growing market of garden furniture and receptacles. *Superocla Ltd.*, Roodepoort, South Africa, has published a catalog to show the extent to which this market has developed in South Africa, particularly for asbestos-cement garden products. They are produced in every conceivable shape from ali baba vases to Grecian urns and barrels. Asbestos-cement fish ponds, tables, tree stumps, chairs and pixie huts are all available, including stools that are exact replicas of an elephant's foot. The market has so vastly increased that Superocla is finding it difficult to meet the demand. [Superocla Ltd. is the new name of the company that resulted from a merger last year between Superconcrete Pipes (S.A.) Ltd. and Messrs. Rocla Pipes Africa (Pty) Ltd.]

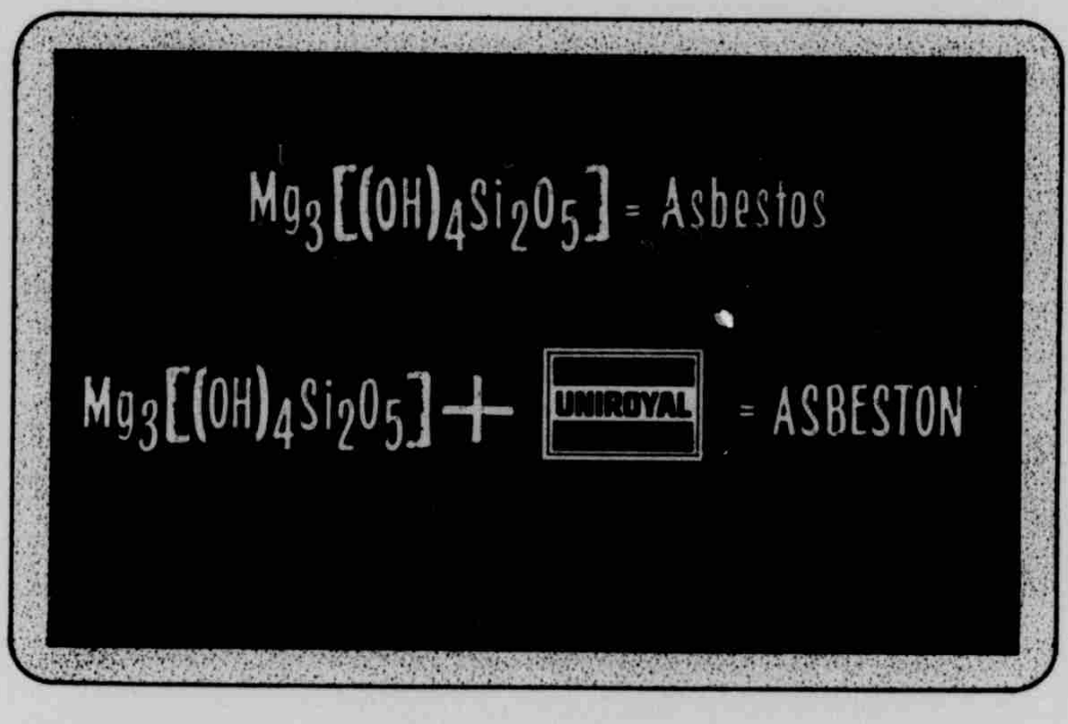
REINFORCED A/C BOARD FROM JAPAN

A new impact-resistant asbestos-cement board was recently developed by *Teijin Ltd.*, Tokyo, in collaboration with *Asahi Asbestos Co., Ltd.*, Osaka, Japan, a leading Japanese manufacturer of asbestos cloth, millboard and paper and asbestos-cement products.

During the production process, a high-strength, chemical and weather-resistant fiber is integrated in the board. The inclusion of the specially-blended fiber overcomes the problem of fragility, so common with asbestos-cement board. The new product is already in use along both sides of the New Tokaido Line of Japan National Railways where it replaces a conventional concrete wind-deflecting wall. The wall is necessary due to the high speed of the trains and it also effectively impedes displacement of gravel under the rails. A central wood chip and cement board surfaced on both sides with the new asbestos-cement board is expected to be installed at the New Sanyo Line from Osaka to Okayama, scheduled to open next April.

Teijin Ltd. is a leading synthetic fiber and chemical producer in Japan and plans to export the special fiber in addition to marketing the new board.

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We put together a clever combination of asbestos, natural and man-made fibers and came up with ASBESTON®, the popular Uniroyal line of high temperature resistant yarns and fabrics. They'll take temperatures up to 750° F., yet offer high strength and dependability.

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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INDUSTRIAL HEALTH/POLLUTION CONTROL

J-M INDUSTRIAL HYGIENE SERVICE

Johns-Manville Corporation, through its Environmental Control Systems Division, is offering a new Industrial Hygiene Engineering Service. A special team of hygienists and engineers have available a full range of services for the economic in-plant control of dust, vapor, fumes and noise.

AERODYNE OIL SKIMMERS

Aerodyne Development Corporation, Cleveland, Ohio, has published a new catalog to demonstrate the effectiveness of its Oil Skimmers. Including "before-and-after" illustrations of the Skimmers at work, the literature reports on case histories and gives capacities and operating and specification data. The Aerodyne Oil Skimmer is designed to remove oil wastes from water or other fluids and to return the cleaned water to local streams or to recirculating systems for re-use.

NEWS FROM IIHRP

The Summer 1971 "Insulation Hygiene Progress Report" from the Insulation Industry Hygiene Research Program contains a variety of interesting items such as . . . . Doubts were expressed that the Standard now proposed for asbestos dust concentrations will suffice to protect asbestos workers at construction sites . . . . 75 members of 25 different unions attended the first occupational health hazards course designed specifically for union members . . . . Scientists from the Florida Institute of Technology will participate in IIHRP, researching into dust collection systems suitable for use in confined spaces . . . . Dr. Kingsley Kay was appointed by Dr. Selikoff to conduct a thorough investigation of the potential toxicity of adhesives used in insulation work.

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World Wide CONSULTING SERVICES

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

PROJECTS INCLUDE:

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

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

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PROCESSING & HANDLING

FREE-FLOW FEEDER

Thayer Rotary Feeders with Silent Bridge Breaker Hoppers provide accurate volumetric delivery of flooding materials. Feed rates meet varied requirements by the use of multiple, rotor-vaned feeders working in conjunction with a constant or variable drive motor. As vibration is limited to internal screens, the feeder can be attached directly to the storage hopper without damage. Descriptive Bulletin 2A0205B can be acquired from the Thayer Scale Division of Cutler-Hammer, Inc., Pembroke, Massachusetts.

PRESSURIZED BULK TRUCK

Sprout, Waldron & Co., Inc., Muncy, Pennsylvania, has developed a new chassis-mounted hopper bottom pressurized bulk truck for the transfer and unloading of dry, free-flowing materials. Major advances of the truck, according to the company, are lighter body weight, maximum strength, minimal maintenance requirements (only one moving assembly), contamination control, simplicity of operation, operational cleanliness and full use of conveying air. Unloading rates of 15-40 tons per hour are obtainable, depending on material characteristics, blower size and line length and resistance.

HEAVY DUTY VIBRATOR

Vibco, Inc., Lodi, New Jersey, redesigned the top of its line of heavy-duty vibrators. The Model DA-M 5000 (Double Amplitude Motor) utilizes a #184 motor frame size and a heavier duty 5-horsepower electric motor to reduce chances of electrical overload and motor burnouts. The frequency of the new model is 1800 vibrations per minute, with an adjustable output of 2500 force pounds. It is capable of rugged applications in large ore, coal or rock-carrying bunkers, heavy-duty mud separators and screens, vibrating tables where heavy impact or shock is required for testing purposes, and for moving bulky materials through large hoppers, bins or silos.

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NEWS

FOR
ASBESTOS-CEMENT
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MARKET CONDITIONS

GENERAL BUSINESS

Using authority previously vested in him by Congress, President Nixon, in an all-out effort to halt inflation and get the economy rolling at a rate much greater than the present sluggish pace, took most of the Nation, including many of the "experts," by surprise and announced the freezing of wages and prices for a period of 90 days. This action, unprecedented in peace time, was accompanied by certain "fringe" moves such as the imposition of a flat 10% surcharge on practically all imports and the freeing of the dollar to "float" in the foreign exchange markets. As this is written it is too early to see or feel any concrete results of this major change in the Administration's "game plan." The financial community took a generally favorable view of the action and the stock market surged upward on record high volume for several days although the pace slowed later.

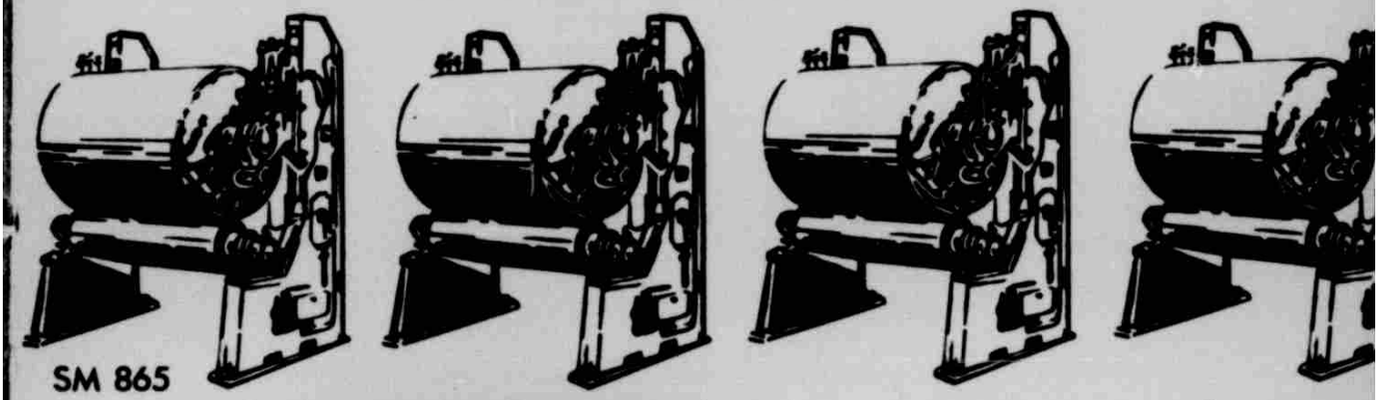
In view of the difficulties of administering such a program by what might be called "force," entailing the overnight creation of a tremendous bureaucracy, the entire program, with the exception of the import tariff surcharge which can be handled by existing personnel and departments, is purely voluntary. It has always been a source of wonderment to much of the world that the U.S. has been able to collect its Federal Income Tax on a pretty much "honor system" basis with a relatively small percentage of cheating. Almost as interesting as the economic effects of the current "freeze" over the long pull will be its effectiveness as measured in terms of *compliance* of the public with the spirit and letter of the guidelines laid down for their voluntary cooperation.

We are inclined to be reasonably sanguine in this regard, based on the fact the average citizen has known the economy was in trouble for some time and with forceful leadership to point the way (something which was lacking up to now) that citizen's response may come as a pleasant surprise to those who take a dim view of many of our current laws and institutions. We can only hope such will be the case.

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VOITH

ASBESTOS CEMENT MACHINES



SM 865

Hatschek-type sheet machines with two, three or four cylinder moulds combined with sheet production lines for flat and corrugated sheets

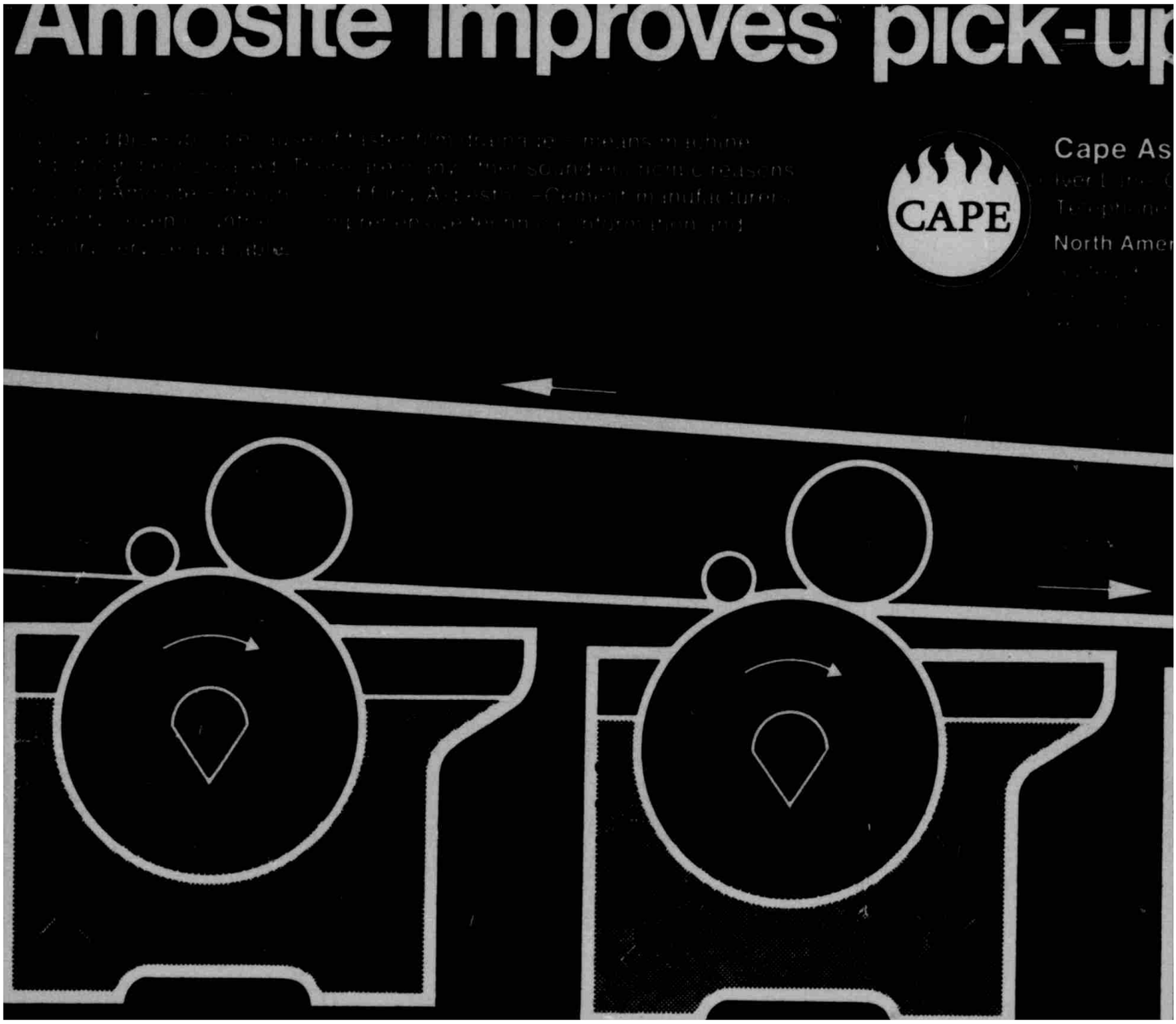
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CONSTRUCTION NEWS

JULY 1971 was another big contracting month for new construction work. A total value of $7,669,734,000 in contracts for future construction was posted in July—a gain of 24% over the value of work started in the same month of last year. The seasonally-adjusted Dodge Index of construction contract value was 151, up slightly from 147 in June. The Dodge Index uses 1967 as its 100 base.

Nonresidential building contracts, at $2,621,287,000, were 6% higher than in July 1970.

Residential contracts totaled $3,356,984,000 and were 42% above the amount recorded last July.

Nonbuilding construction contracts totaled $1,691,-463,000, a gain of 26% from July 1970.

Cumulative construction contract value for the first seven months of 1971 totaled $46,601,347,000; Nonresidential, $15,248,010,000, up 2%; Residential Building, $19,490,-518,000, up 39%; Nonbuilding, $11,862,819,000, no percentage change. The seven-month total for 1971 was 14% above that for the same period in 1970. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

JUNE 1971 motor vehicle factory sales from plants in the *United States* totaled 1,008,157 (passenger cars—809,753; trucks and buses—198,404). The cumulative total for the First Six Months of 1971 was 5,700,525 compared with 4,873,862 for the same period in 1970.

Motor vehicle factory sales from plants in *Canada* totaled 135,989 in June 1971. The cumulative total from January-June 1971 was 738,046 against 725,844 for the like 1970 period.

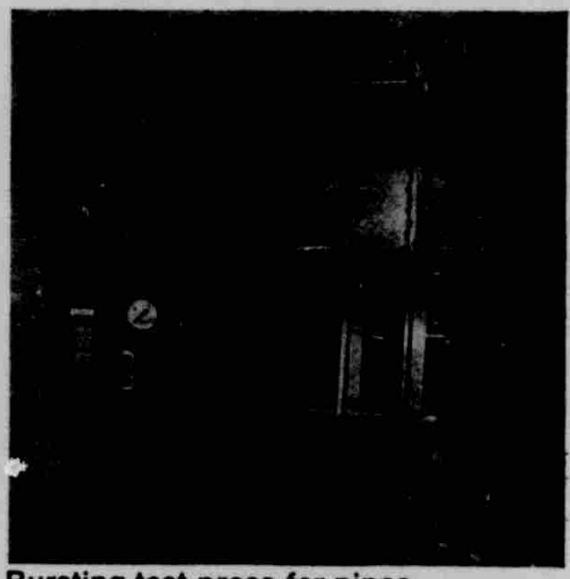
AUTOMOBILE FACTS & FIGURES, 1971 edition, has been distributed and copies are available from the *Automobile Manufacturers Association,* 320 New Center Building, Detroit, Michigan 48202. The booklet makes note of the 75 years of automotive progress in the United States and highlights significant data of 1970.

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Choose performance and efficiency



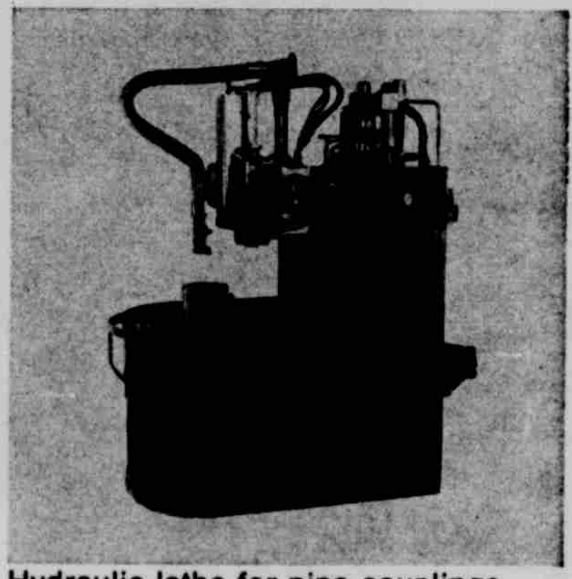
Pressure recorder of our test presses



Bursting test press for pipes



Triple pipe test press

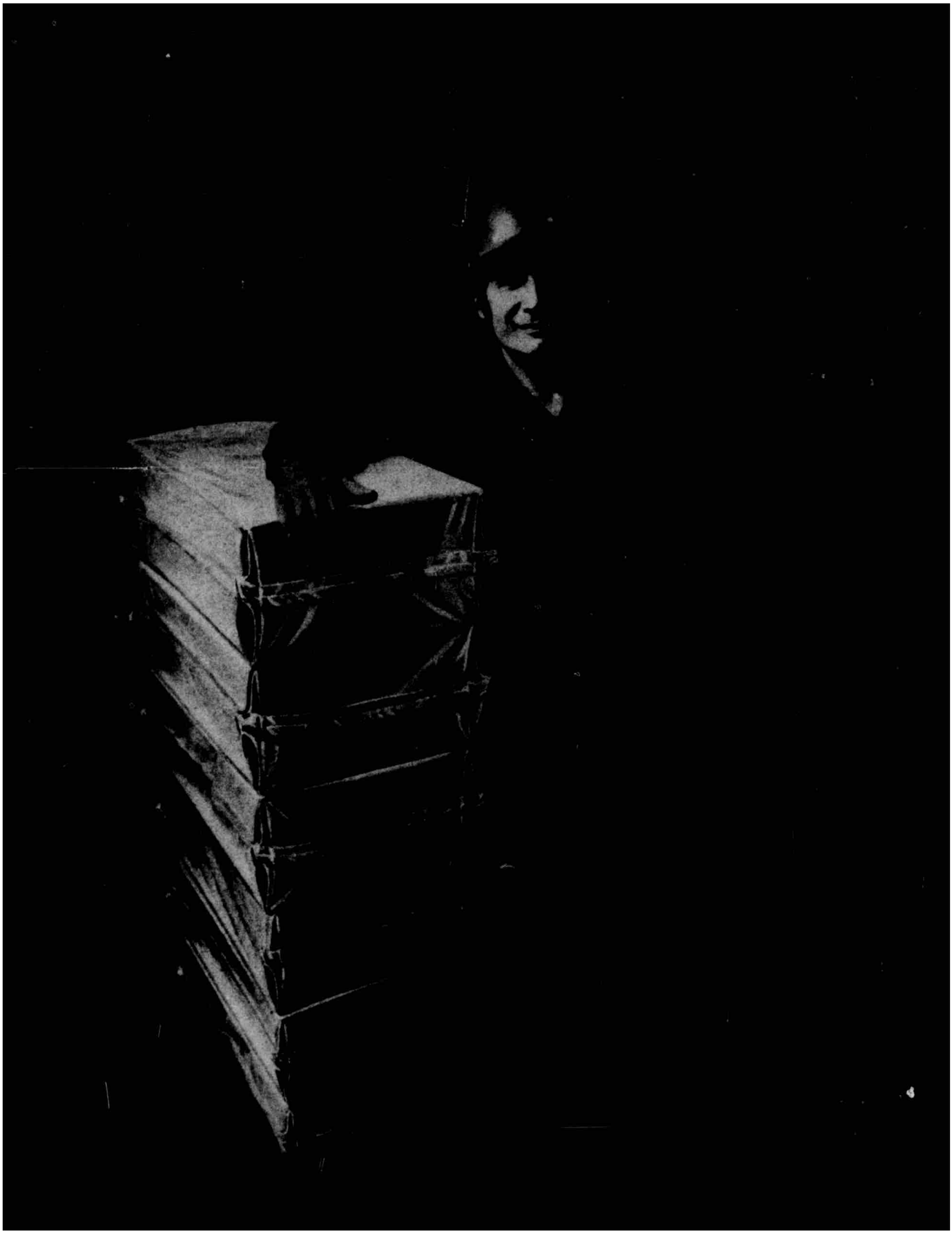


Hydraulic lathe for pipe couplings

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'Fabrene' was the first coated polyolefin material to prove itself to the asbestos industry. And since it's been around longest, you might say it's more stable. And then there's the know-how that comes along with being the forerunner . . . and wanting to stay in front. And, the obvious strength of character that lets 'Fabrene' stand firm in the face of rot, chemicals, moisture, and all that pushing and pulling that goes on during warehousing and shipping.

What we're really saying is that 'Fabrene' has what you want and what your product needs: It has extra-ordinary strength, built right into its very fabric; and knowledgeable technicians to back it all up with suggestions and ideas to help you and your supplier make the most of its many advantages. So next time you order asbestos, ask your supplier to send it to you bagged in coated 'Fabrene' oriented polyolefin material. It's stacked in your favour.

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PRODUCTION—IMPORTS—EXPORTS

Canada—Producers' shipments of asbestos during *June 1971* totaled 164,770 short tons (142,297 tons from Quebec plants and 22,473 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for June 1970 was 135,335 tons.

January-June 1971 cumulative total was 760,499 tons, against 699,382 tons during the same six-month period of 1970. [Dominion Bureau of Statistics, Ottawa]

Canada—Production of vinyl-asbestos tile during the *First Six Months of 1971* totaled 89,969,222 square feet (41,827 short tons), compared to 81,792,360 square feet (38,091 tons) for the same period in 1970.

Imports of vinyl-asbestos floor and wall tiles reached 204,291 square feet, valued at $28,000, for the *First Quarter of 1971*, compared with 167,445 square feet, valued at $15,000, for the same period of the previous year. [Dominion Bureau of Statistics, Ottawa]

Cyprus—Production of asbestos during the *First Half of 1971* totaled 9,555 short tons, valued at £508,890. [Mines Department, Ministry of Commerce and Industry, Nicosia]

ASBESTOS IN ONTARIO

Primarily a revision of a report of the same title that was issued in 1953, "Asbestos in Ontario," by M. A. Vos, is available from the Publications Office, Ontario Department of Mines and Northern Affairs, Parliament Buildings, Queen's Park, Toronto, Ontario, Canada.

Asbestos has been mined in Ontario in minor quantities from 1901 until 1949 when a large deposit of good-grade Chrysotile asbestos was discovered in Munro Township. Following development, the Munro Mine was a substantial producer for a period of 14 years. Intensive prospecting in the peridotite belts of northeastern Ontario led to the subsequent discovery and development of other deposits. Two of these deposits are presently in production and a third is in an advanced development stage.

The Report contains detailed, comprehensive descriptions of asbestos mines and properties in Ontario including Munro, Bowman, Slade-Forbes, Garrison, F. W. Schumacher, Reeves, Rahn Lake Asbestos and Hedman. Information on exploration in the Abitibi Peridotite Belt and in other areas is also given as well as chapters on the history, mineralogy and uses of asbestos; the grade and evaluation of asbestos deposits; and production methods. [Industrial Mineral Report No. 36, 1971; $1.00]

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

APRIL 1971

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	950	$ 185,845
Non-Spinning Fibers	s. tons	2,350	370,160
Waste & Refuse	s. tons	1,708	200,599
		5,008	$ 756,604
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,984,307	$ 239,399
Other Asbestos-Cement Articles	Lb	312,865	68,778
Asbestos Gaskets	Lb	53,300	99,904
Asbestos Packing	Lb	331,332	581,744
Asbestos Heat or Sound Insulation		..	235,538
Asbestos Textiles & Yarns	Lb	950,967	317,202
Asbestos Protective Clothing		..	5,807
Mfrs. Other Than Friction Materials		..	192,993
Clutch Facings & Linings for Auto. Use	No	29,122	48,908
Clutch Facings & Linings, Other	No	50,306	45,487
Brake Linings for Automotive Use	Lb	586,067	379,943
Asbestos Brake Linings, Other	Lb	274,415	237,772
			$ 2,453,475

EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics

APRIL 1971

Short Tons

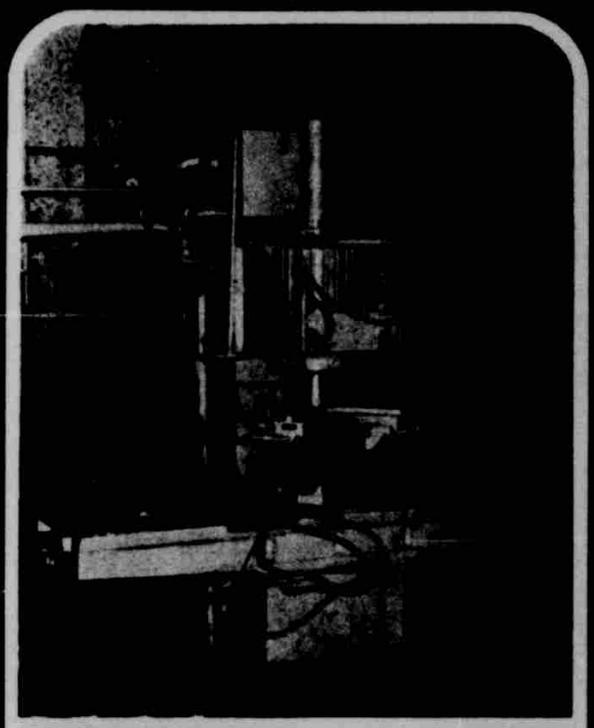
Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	1	641	20,760	12,661
Eastern Europe	..	25	3,214	196
Middle East	..	..	2,242	448
Africa	..	..	441	95
Asia	..	87	4,647	4,708
Oceania	..	9	943	931
So. & Cen. America & Antilles	..	19	4,564	1,828
United States	12	1,274	20,656	42,424
	13	2,055	57,467	63,291

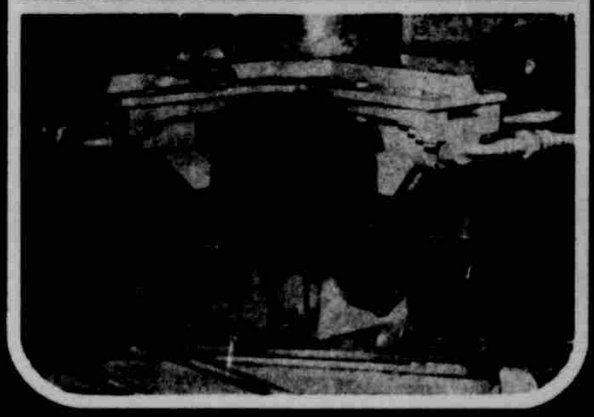
The total amount of unmanufactured asbestos exported in *April 1971* was 122,826 short tons, valued at $17,217,000.

Manufactured Asbestos Goods:	
Asbestos Brake Lining & Facings	$ 55,000
Asbestos-Cement Building Materials	180,000
Asbestos Basic Products, Other	310,000
	$ 545,000

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MACHINERY and PLANTS
for PIPES, SHEETS and FITTING
in ASBESTOS CEMENT





RIVA-CALZONI
S.p.A.

MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 2: Industry Pattern

Canada's Province of Quebec contains the largest asbestos mines and mills of anywhere in the world but the USSR rivals Canada as an important producer. The Republic of South Africa, Southern Rhodesia, Swaziland, Italy and the United States are substantial asbestos producers and small supplies originate in many other countries. The Chrysotile variety constitutes about 95% of world supply. Total world production in 1968 was estimated at 3.5 million tons of all grades and varieties and of this total Canada produced about 46% and the USSR an estimated 25%. Although most published information concerning world production credits the USSR as the largest producer, the U.S. Bureau of Mines' statistics indicate that much of the ascribed quantity includes low-grade material and should not be considered as asbestos output.

Prior to 1962 the only large amount of U.S. asbestos production was from a deposit in Eden and Lowell Townships, Vermont. This deposit is regarded as a southern extension of the deposits in Quebec. In 1963 California asbestos deposits started production in Copperopolis, Coalinga and Napa. North of Globe, Arizona, several operators run small mines in the Salt River and Cherry Creek basins. In 1968 nine companies with nine operations produced asbestos in the U.S.—four in California, three in Arizona, one in North Carolina (Amphibole) and one in Vermont.

The largest known asbestos deposits in the Free World are in an area 75 miles long by 5-6 miles wide that lies between Danville and the Chaudiere River Valley in Quebec. Of the eight companies that are mining in the area, six are subsidiaries of firms that operate large asbestos products manufacturing plants in the U.S. Asbestos also has been mined continuously in British Columbia and Ontario since the 1950's and in mid-1963 a new mine commenced operating at Baie Verte, Newfoundland. In 1968 the Clinton Creek Mine was opened in the Yukon Territory.

Located in the Bajenova District of the Urals, the Soviet asbestos deposits are extensive and the mines and mills are large. Most of the fiber produced therefrom is used domestically.

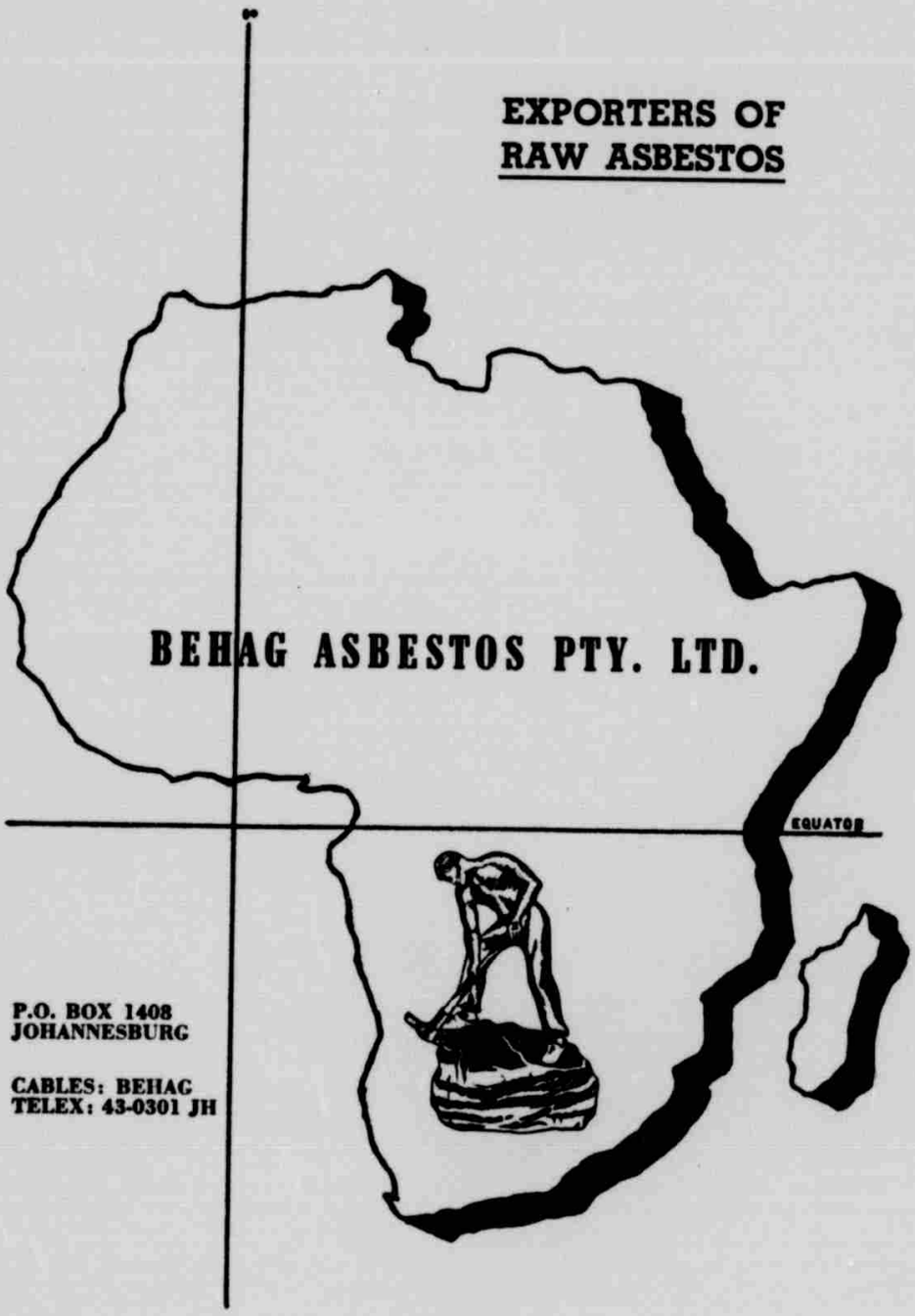
Southern Rhodesia is an important producer of Chrysotile, particularly in the Shabani area. Because of its low-iron content, the fiber is an excellent, effective additive to the electrical insulating material required in electric cables used on shipboard. Swaziland and South Africa also produce substantial quantities of Chrysotile. South Africa also produces Amosite asbestos (found commercially nowhere else) and Crocidolite (Blue) asbestos, which in addition is produced in Australia and Bolivia.

The three largest fully-integrated operations in the world are Johns-Manville Corporation, Turner & Newall Ltd. and The Cape Asbestos Company Ltd.

NEXT MONTH—DEFINITION OF TERMS, GRADES AND SPECIFICATIONS.

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ABITIBI ASBESTOS NEGOTIATING

Abitibi Asbestos Mining Co. Ltd. officials are actively engaged in negotiating senior financing to bring the company's asbestos property into production. The negotiations are expected to proceed without delay now that Abitibi has gained 100% ownership of the property following implementation of the agreement with its previous partner, Minbanco Corporation. Following distribution of Abitibi shares to Minbanco shareholders, Minbanco Corporation is to be dissolved.

The asbestos property is situated on the Amos-Matagami Highway in Maizerets Township in Northwestern Quebec, Canada. It is estimated to contain indicated reserves of some 105,000,000 tons of ore containing 3.6% asbestos fiber of good quality Cement Grades 4, 5 and 6. As soon as senior financing is arranged it will require about 2-3 years to achieve production at an annual rate of about 160,000 tons of fiber. [The Northern Miner]

ALLSTATE/NEWMONT JOINT VENTURE

Allstate Explorations N.L., Sydney, Australia, concluded the costeaning-mapping program at the Newmont/Allstate joint venture property near Beaconsfield, Tasmania. The initial zone of interest was enlarged to cover an area 1900 feet long by from 300-1200 feet wide. A second zone of interest in the northern part of the property was traced for 1300 feet.

Watts, Griffis & McOuat Ltd., consulting geologists, reviewed the available data and recommended a detailed ground magnetic survey, additional costeaning and detailed geological mapping, and approximately 5000 feet of diamond drilling to investigate the fiber occurrences that were located during the exploration program. The Tasmanian Department of Mines has granted Allstate an Exploration License covering a six-square-mile area adjacent to the joint-venture property.

CERRO MAY SOON ERECT FIBER PLANT IN GREECE

Cerro Corporation, New York City, through *Asbestos Mines of Northern Greece S.A. (MABEM),* recently completed the first phase of the project at the Zidani asbestos deposit near Kozani, Greece. The project includes exploration, studies and start-up of an asbestos fiber pilot plant, built by *Kilborn Engineering Ltd.*, Toronto, Canada. Samples of the fiber from the pilot plant have been sent to prospective customers and to laboratories in Canada and England for testing. Should the results prove satisfactory, as preliminary reports indicate, MABEM will put the mine into commercial production and will establish a fiber plant with an annual production capacity of 40,000-45,000 metric tons. About one-half the output will be consumed locally by asbestos-cement products manufacturers and the remainder will be exported.

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BIRTHDAY GREETINGS TO . . .

T. T. Tigert, Consulting Engineer, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, Canada, October 16.

William F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

Miss Frances E. Mett, President & Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.

J. G. Mooney, Industrial Relations Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, October 18.

Charles P. Miller, Director & Treasurer, Scandura Inc., subsidiary of BBA Group Ltd., Charlotte, North Carolina, October 20.

Monroe Harris, Vice President & General Manager of the Pipe Division, Johns-Manville Corporation, New York City, October 22.

William M. North, Corporate Senior Vice President, National Gypsum Company, Buffalo, New York, October 22.

James C. Murphy, Vice President, GAF Corporation, New York City, October 23.

Francis E. Dutcher, Vice President, Building Materials Divisions, Johns-Manville Corporation, New York City, October 24.

John H. Steiner, Chairman of the Board, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, October 24.

Boris A. Stern, Panacon Corporate Director of Quality Control, Philip Carey Company, Cincinnati, Ohio, October 24.

James W. Liddell, President, ACandS, Inc., Lancaster, Pennsylvania, October 26.

Richard W. Henry, Marketing Manager-Insulation & Construction Products, Industrial Products Division, GAF Corporation, New York City, October 27.

J. R. Murdoch, General Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, Canada, October 27.

L. B. Petters, Chairman & Managing Director, Turners Asbestos Products Ltd., Jacobs, Durban, South Africa, October 27.

G. Edwards, Plant Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, Canada, October 29.

Walter R. Foote, Director of Manufacturing, Floor Products Division, GAF Corporation, New York City, October 30.

Max E. Meyer, President, North American Asbestos Corporation, Chicago, Illinois, October 31.

Paul S. Maco, General Manager, Insulation Products Division, Asbestospray Corporation, Newark, New Jersey, November 1.

Joseph W. Christenbury, Vice President in charge of Sales, American Asbestos Textile Corporation, Norristown, Pennsylvania, November 2.

J. Conrad Lavigne, Director & Vice President, Hedman Mines Ltd., Timmins, Ontario, Canada, November 2.

Clark A. Bailey, Marketing Manager, Southern Region, Pipe Division, Johns-Manville Corporation, New York City, November 3.

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Milton Q. Scowcroft, Sales Manager, Asbestos Textile Division, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, November 3.
Dirk Salomons, Director & President of the Board, Asbest-cement-industrie Asbestona N.V., Amersfoort, Holland, November 5.
Dr. Robert J. Merrill, President, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, Canada, November 6.
Dr. Richard Gaze, Chairman, Cape Asbestos Fibres Ltd., London, England, November 9.
John A. McKinney, Vice President-Legal Services, Johns-Manville Corporation, New York City, November 9.
Monte C. Carpenter, Vice President & General Manager, Building Products Group, The Flintkote Company, White Plains, New York, November 12.
Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.
W. B. Callan, Plant Manager, Normandie Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, November 14.
K. H. Dixon, Joint Managing Director, Turner Brothers Asbestos Company Ltd., Spotland, Rochdale, Lancashire, England, November 14.
Karl V. Lindell, President, Karl V. Lindell Associates Ltd., Montreal, Quebec, Canada, November 14.
George L. Romine, Head of Friction Products Group, Vice President & Director, Abex Corporation, an operating company of IC Industries, New York City, November 14.

ALLIED MINING CORPORATION

DEVELOPING A CROSS FIBRE CHRYSOTILE ASBESTOS DEPOSIT IN MIDLOTHIAN TOWNSHIP, PROVINCE OF ONTARIO.

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NOTES FROM 1970 ANNUAL REPORTS

THE CAPE ASBESTOS CO. LTD.

The year under review has been one of considerable difficulty for The Cape Asbestos Co. Ltd. and profits of a number of manufacturing operations, especially those in the United Kingdom, were adversely affected. Turnover in the Manufacturing Division rose to £37,133,000 from £32,731,000 and profit before interest and tax dropped to £1,388,000 from £1,903,000. In the Mining Division, turnover increased to £8,533,000 from £7,821,000 and profit amounted to £1,755,000 compared with £1,656,000 the previous year. Exports from the U.K. increased by just over 10% to £5,064,000. After providing for tax and for the interests of minority shareholders in subsidiaries, £1,464,000 was left for distribution compared with £1,716,000 in 1969.

Manufacturing Division

Cape Universal Building Products Ltd. suffered a further reduction in profit. Turnover was maintained but increasing costs were not offset by productivity or by price increases. The asbestos cement manufacturing operations were affected by many adverse factors. Demand for Asbestolux boards and ceiling tiles suffered a decrease during the year and profit was correspondingly reduced. Sales and profits of the other products were maintained.

The Queensferry Plant, as anticipated, required extensive improvements and the year's operations resulted in an expected loss.

At Marinite Ltd., Glasgow, Scotland, where incombustible panels for marine and land use are manufactured, increasing costs resulted in a net loss on the year's operations. Action is being taken to bring costs into proper balance with anticipated sales revenue.

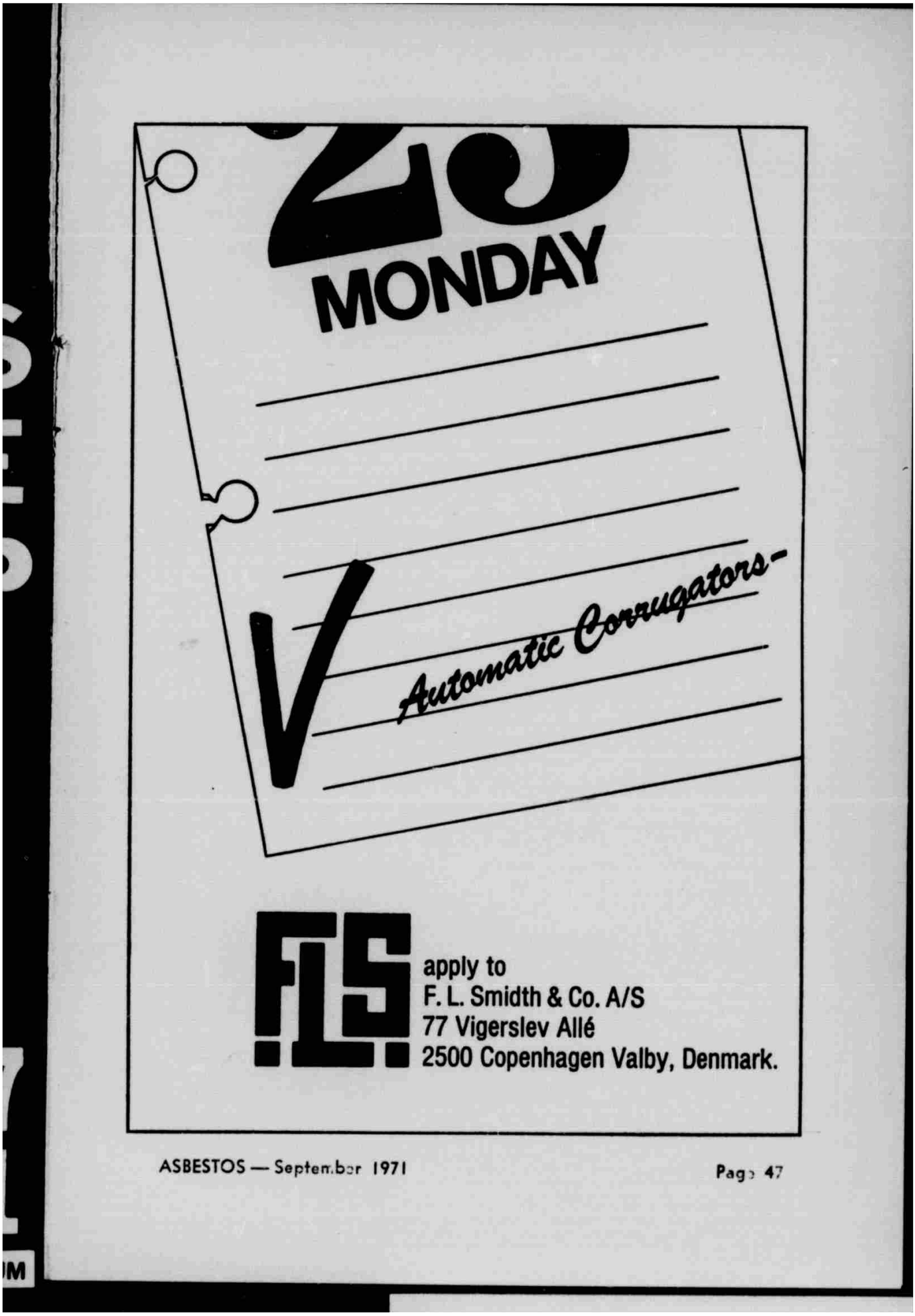
Cape Insulation Ltd. had a successful year. While demand remains strong for the insulation products and services of this company, some rationalization of production took place resulting in the closure of the Hebden Bridge Works at Yorkshire. The division that handles thermal insulation contracts was efficiently and profitably run during the year and the volume of contracts on hand is at a record high. Cape's activities in this area were extended, by arrangement with William Kenyon & Sons Ltd., via the acquisition of Kenyon's contracting division.

Small and Parkes Ltd., manufacturers of Don and Capasco brake and clutch linings and disc pads, experienced difficulties arising from the interruptions to motor vehicle production caused by labor unrest. Trist, Draper Ltd., Bristol, who sells mainly to the replacement market, recorded improved sales and profit.

Mining Division

Sales from the Amosite mines at Penge in the Transvaal, Republic of South Africa, increased by approximately 10% during the year and the output of Blue asbestos remained steady. Further extensions are

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being made to the treatment plant at Penge and development work is continuing at the mine. Work at the Blue fields to extend the mining area at Pomfret has been carried out and the plant enlarged.

ADVOCATE MINES LTD.

Advocate Mines Ltd. reported a net income of $1,439,000 or 11¢ per common share after providing for preference dividends earned in 1970. This compares with net income of $1,585,000 and 13¢ per common share in the previous year. Lower income in 1970 resulted from inclement weather adversely affecting drilling operations and deliveries of ore to the mill. Cash from operations was $2,891,000. After providing $1,081,000 for fixed asset additions and $805,000 for preference dividends, net cash flow was $1,005,000 or 17¢ per common share. Additions to plant and equipment in 1970 amounted to $1,081,000.

During the year, 2,320,862 tons of ore, 8,914,495 tons of waste and overburden, and 332,900 tons of road rock were mined. This provided a total of 11,568,257 tons with a waste-to-ore ratio of 3.85:1, against 3.96:1 in 1969. To make provision for increased tonnages, two 50-ton trucks were added during the year, making a total fleet of 22 trucks at year-end. A 4-yard shovel was successfully converted to a 6-yard bucket and a second rubber-tired bulldozer was purchased. Increased drilling flexibility was provided by the addition of a third rotary drill.

The crushing and drying plant handled 2,245,413 tons of ore, with a recovery of 3.22%. The mill operated 340 days, resulting in production of 70,835 tons of A-25 fiber. In July the installation of Group VI facilities was completed and by the end of the year 2,096 tons of A-35 fiber had been produced. Total production was valued at $13,622,000 or $186.78 per ton. Shipments reached 62,727 tons, 13% more than in 1969 and slightly higher than in 1968.

Ore reserves at December 31, 1970, amounted to 59,319,000 tons. Some development drilling in the North and West Zones was accomplished in 1970 and additional drilling is planned for 1971.

Planning for the expansion of the present town of Baie Verte has proceeded and current plans call for the development of building lots, schools and recreational facilities in 1971, some of which will be directly financed by the Federal and Provincial Governments. Contracts for paving and upgrading of the 45-mile access road to Baie Verte were let during the year and at year-end approximately 12 miles remained to be paved. The project was financed under an outright grant from the Department of Regional Economic Expansion.

Next Issue . . . .

Calidria Asbestos Pellets

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ASBESTOS STOCK QUOTATIONS

CLOSE—AUGUST 24, 1971

Abitibi Asbestos	*$3.50
Advocate Mines	*$1.97
Allied Mining	*$3.20
Asarco	23¼
Armstrong Cork	37
Armst Cork (pfd 3.75)	54
Asbestos Corporation	*$33.875
Bendix	43
Bendix (pfd 3)	65
Carlisle	16
Cassiar Asbestos	*$20.25
Cerro Corporation	15¾
Certain-teed	33
C-teed (pfd .90)	33
Conwest	*$8.45
Flintkote	29
F-kote (pfd-A 4.50)	77½
F-kote (pfd-B 2.25)	38
GAF Corporation	20
GAF (pfd 1.20)	26¼
Garlock	18
Grace	29¾
Gulf & Western	29⅜
G&W (pfd 1.75)	96
G&W (pfd 3.50)	120
G&W (pfd 3.87)	58½
G&W (pfd 5.75)	66
Illinois Central	42¾
Ill. Central (pfd 3.50)	65⅛
Johns-Manville	38¾
Maremont	23½
National Gypsum	23¼
Natl Gypsum (pfd 4.50)	67½
Pacific Asbestos Ltd	*$1.56
Panacon	3⅞
Porter (pfd 5.50)	68⅝
Raybestos-Manhattan	29⅝
Royal Industries	9¾
Unarco	15⅛
Union Carbide	46
Uniroyal	23
Uniroyal (pfd 8)	102¾
United Asbestos	5

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

INVESTMENT/TRADE OPPORTUNITIES

Australia—firm handles architect-designed products for the building industry; asbestos-cement operation consists of the development of new items for manufacture under license by Wunderlich Ltd.; marketing presently confined to Australia but the firm would be interested in its products being manufactured under license with U.S. companies if any should show sufficient interest; contact B. A. Helean, Swan Products, 18 Byrne Street, P. O. Box 115, Botany, N.S.W. 2019.

Brazil—importer-distributor-retailer interested in the direct purchase of asbestos friction brake linings for turbines plaited with metal; contact Acessorios Rex Ltda., Avenida Prestes Maia 530, Sao Paulo, SP.

Canada—company inviting bids from interested U.S. firms for equipment to manufacture vinyl asbestos tile; requires complete plant equipment and formulae and a proposed equipment layout; hopes to start production in October 1971; contact H. A. Rattai, Nor-Way Construction Ltd., P. O. Box 240, St. Albert, Alberta.

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MACHINERY FOR PRODUCING
ASBESTOS-CEMENT

ROOFING FITMENTS

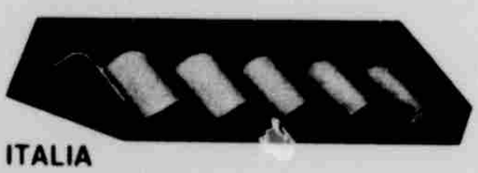
RIDGES



DIAGONALE

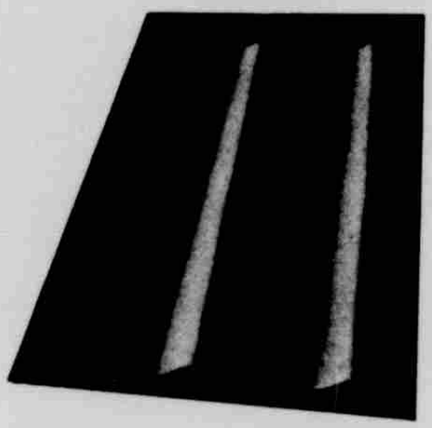


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MEN ON THE MOVE

GAF CORPORATION

Miss Juliette M. Moran, Vice President for Communications Services, was elected Senior Vice President. She will continue to be responsible for the advertising and sales promotion, personnel and public relations functions of GAF.

Joseph G. Hall, former Vice President of the Building Products Division, has been named Group Vice President. He will oversee the Building and Industrial Products Group. Other recently-named Group Vice Presidents are **James M. Cloney,** Business Systems Group; **Edwin R. Cowherd,** Chemical Operations; and **James T. Sherwin,** Photo Products Group.

Jack F. Gow, formerly General Manager, was elected a Vice President with continued responsibility for Personnel Relations.

JOHNS-MANVILLE CORPORATION

K. J. Whalen is now Production Manager for the J-M Pipe Division and a Vice President of J-M Products Corporation. He has been with J-M for over 35 years, having started in the Quality Control Department at Nashua, New Hampshire.

C. J. DeBiase has been appointed Product Group Manager for Packings & Friction Materials. A native of Mechanic Falls, Maine, he joined J-M in 1956 as a Senior Industrial Engineer and became Plant Group Manager in 1970.

H. K. PORTER CO., INC.

E. C. Bratt, Group General Manager-Asbestos, and **A. Smith,** General Sales Manager-Asbestos, have moved to the newly-located management headquarters of the Asbestos Group, Thermoid Division, now at the Charlotte Works, North Carolina.

Frank S. Williams was named Product Manager-Asbestos, Thermoid Division. He joined Thermoid in 1959 and has held the positions of Asbestos Sales Representative, Industrial Salesman and Regional Manager.

Samuel J. Graci, Jr., was appointed Thermoid's Asbestos Sales Representative in the Middle Atlantic territory. Prior to joining Porter he was Sales Representative with Royal Typewriter Company.

RAYBESTOS-MANHATTAN, INC.

Jack A. Kerns was appointed Sales Manager of the Equipment Sales Division, replacing **Jack E. Cole** who recently retired. Mr. Kerns joined R/M in 1948 as a salesman and in 1968 was promoted to Central Sales Manager.

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BOOKS & BOOKLETS

A Year of Continued Growth—reports that at current or moderately increased production rates, Canada (and particularly Quebec) has adequate asbestos ore reserves for at least the next 30-40 years; includes factual data on asbestos production, shipments, applications, expansion projects, and a health research program. [available free of charge from the Quebec Asbestos Mining Association, 5 Place Ville Marie, Montreal 113, Quebec, Canada]

Metric Practice Guide—deals with the conversion, from one system of units to another, of quantities that are in general use; includes the units most frequently used in the various fields of science and industry; conversion factors given are from U.S. customary units to those of the International System of Units which is officially abbreviated "SI" in all languages. [$1.25; E380-70; available through ASBESTOS or direct from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa. 19103]

National Atlas of the United States of America—culminates over 7 years of work by the U.S. Geological Survey; designed as a research and reference publication oriented toward libraries, educational institutions, commercial companies and governmental agencies. [$100.00; Washington Distribution Section, U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia 22202]

TECHNICAL DOCUMENTS—The following Technical Documents are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22151. Cost per paper copy is designated at the end of each listing. Microfiche reproduction is priced at 95c per document. Prepayment is required. Please specify Report Number when ordering.

AD 716 325—The Feasibility of Surface-Skimming Oil Collection Devices; Charles River Association, Wayland, Massachusetts, for the U.S. Coast Guard. [$3.00]

NASA SP 5905(02)—Seals and Sealing Techniques; a compilation prepared under the sponsorship of the National Aeronautics and Space Administration. [$1.00]

NBS SP 330—The International System of Units (SI); contains an authoritative description of the modernized metric system; prepared jointly by the National Physical Laboratory, United Kingdom, and the U.S. National Bureau of Standards. [40¢]

PB 192 252—National Inventory of Sources and Emissions, Section III: Asbestos, W. E. Davis & Associates for the National Air Pollution Control Administration. [$3.00]

PB 193 801—Long-Term Effects of Air Pollution; a survey by the Center for the Environment and Man, Inc., Hartford, Connecticut, for the National Air Pollution Control Administration. [$3.00]

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AMMANN Asbestos Mill



The *ONLY DISINTEGRATOR* treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestos Mines of the whole world.

The above illustration shows a large plant comprising several AMMANN disintegrators. This plant works in an asbestos mine in South Africa.

U. AMMANN Ltd.

Engineers **CH 4900 Langenthal** **Switzerland**

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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.

Australian 294,320—In the beneficiation of Crocidolite asbestos, a fluorescent dye is sorbed on the ore lumps and fiber-rich lumps are sorted by ascertaining whether they contain a sufficient showing of sorbed dye to warrant further processing; R. L. Thompson & F. B. Dwyer; assigned to Colonial Sugar Refining Company Ltd., September 16, 1969; 16 pages.

British 1,232,205—An elastomeric joint sealing cement comprises optimum percentages of asbestos short fibers, a chlorinated paraffin, a phthalate ester, benzoyl peroxide, methylethylketone peroxide and an inert filler such as ground limestone or barite; assigned to Nautchno-Izsledovatelski Stroitelen Institut, May 19, 1971; 2 pages.

British 1,234,943—A paint that forms flame-retardant and anti-corrosive coatings comprises Chrysotile asbestos short fibers, gilsonite or similar bitumen, refined trixylyl phosphate and optionally other fillers, pigments, and/or corrosion inhibitors, as required; B. A. Woodman; assigned to Xzit (G.B.) Ltd., June 9, 1971; 4 pages.

British 1,235,100—A friction material for making improved brake linings or clutch facings having very high strength and a stable coefficient of friction comprises 20-50% by weight of iron sand, iron powder or copper powder, 20-30% of asbestos, 2-25% of cryolite or fluorspar and the remainder nitrile rubber or other suitable organic binder; assigned to Kabushiki Kaisha Toyota Chu Kenkyusho, June 9, 1971; 11 pages.

Canadian 872,890—Method of forming vulcanized friction pads, seals, packings or the like from an aqueous dispersion of asbestos a dispersing agent and latex or other rubber; W. Wilke & H. Fetzer, assigned to Rex Asbestwerke, Graf von Rex K.G., June 8, 1971; 11 pages.

U.S. 3,582,367—A composition for coating auto underbodies is made by coating asbestos fibers with a waxy hydrocarbon, mixing the coated fibers with an organic acid salt and blending the mixture with a suitable bitumen; C. R. Miller & P. J. Holtzapfel; assigned to Ashland Oil & Refining Company, June 1, 1971; 4 pages.

U.S. 3,583,913—A solid lubricant for use in the hot extrusion of nickel or nickel alloys comprises 85-98% by weight of calcium silicate and the remainder asbestos; R. J. A. Courtney; assigned to International Nickel Company, Inc., June 8, 1971; 2 pages.

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PACIFIC ASBESTOS CORPORATION

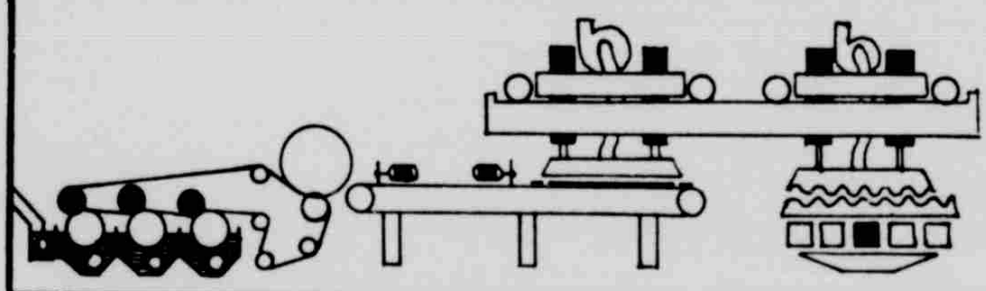
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CALENDAR OF EVENTS

Conference and Products Exposition—National Institute of Governmental Purchasing; Netherland Hilton Hotel, Cincinnati, Ohio; *October 3-6.*

Rock Fracture Symposium—International Society for Rock Mechanics; Nancy, France; *October 4-6.*

Building Science Seminar—National Research Council of Canada; *October 4-6* and *6-8* at Ottawa; *October 21-22* at Calgary.

Instrument Society of America—Conference & Exhibit; McCormick Place, Chicago, Illinois; *October 4-7*

ASTM Committee C-16 on Thermal Insulation—Hotel Hershey, Hershey, Pennsylvania; *October 5-8.*

Symposium on Ignition, Heat-Release and Noncombustibility of Materials—National Academy of Sciences Auditorium, Washington, D.C.; *October 6.*

Asbestos Textile Institute—General Meeting; Savannah Inn and Country Club, Savannah, Georgia; *October 6-8.*

ASTM Committee D-14 on Adhesives—Holiday Inn East, Williamsburg, Virginia; *October 6-8.*

1971 Mining Show—American Mining Congress; Convention Center, Las Vegas, Nevada; *October 11-14.*

Conference on Milling—South African Institution of Mechanical Engineers; Sunnyside Park Hotel, Johannesburg; *October 13-15.*

Interkama '71—5th International Congress with Exhibition for Instrumentation and Automation; Dusseldorf Fair Grounds, Dusseldorf, Germany; *October 14-20.*

ASTM Committee D-13 on Textile Materials—Belmont Plaza, New York City; *October 18-22.*

Course in Design of Bins for Strength and Flow—will be conducted by Drs. A. W. Jenike & J. R. Johanson; Burlington, Massachusetts; *October 18-22.*

U.S. Solo Exhibition—an all U.S. display of industrial machinery; Seoul, Korea; *October 18-23.*

International Building Exhibition—Toronto, Ontario, Canada; *October 19-21.*

International Symposium on Transport and Handling of Minerals—sponsored by World Mining and affiliated shipping groups; Vancouver, British Columbia, Canada; *October 20-23.*

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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,
Cleckheaton, BD19 3UL., Yorkshire, England.
Telephone Cleckheaton 5711; Telex 51106.

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Remember When?

(September 1921 ASBESTOS)

New Advertiser: The Windsor Asbestos Co. Ltd.

It was reported that the Bureau of Engineering of the U.S. Navy Department planned to conduct a series of tests of compressed sheet packings with a view to establishing a list of acceptable products for future Navy procurement.

The formation of Albany Asbestos Slate Co., Inc., was announced. Objectives of the company were to produce asbestos shingles or slates of superior quality at competitive prices.

Victor Manufacturing & Gasket Co., maker of copper-asbestos gaskets, announced its entry into the manufacture of a complete line of shims as well as the introduction of a newly-designed cylinder head gasket for Ford cars.

Mr. L. Breitmeyer, Chairman of Cape Asbestos Co., Ltd., reported a profit of £49,546 for the previous fiscal year. The company's South African mines were reported to be working at full capacity.

A new company, Pacific Asbestos Corporation, was incorporated in San Francisco. Holdings of the corporation included 600 acres near Copperopolis, California, in which a deposit of 8,000,000 tons of asbestos-bearing rock had been blocked out. The ore was estimated to contain over 5% of asbestos fiber. John A. Voorhees of San Francisco was named as President.

It was announced that a merger had been arranged between General Asbestos & Rubber Co. of Charleston, South Carolina, and the Raybestos Company of Bridgeport, Connecticut. A common Board of Directors was selected to take full charge of the affairs of both companies. Officers of the merged companies included C. Bissell Jenkins, Chairman of the Board of Directors; Sumner Simpson, President; Matthew B. Barkley, H. C. Simpson and C. Bissell Jenkins, Jr., Vice Presidents; and John P. Thomas, Treasurer.

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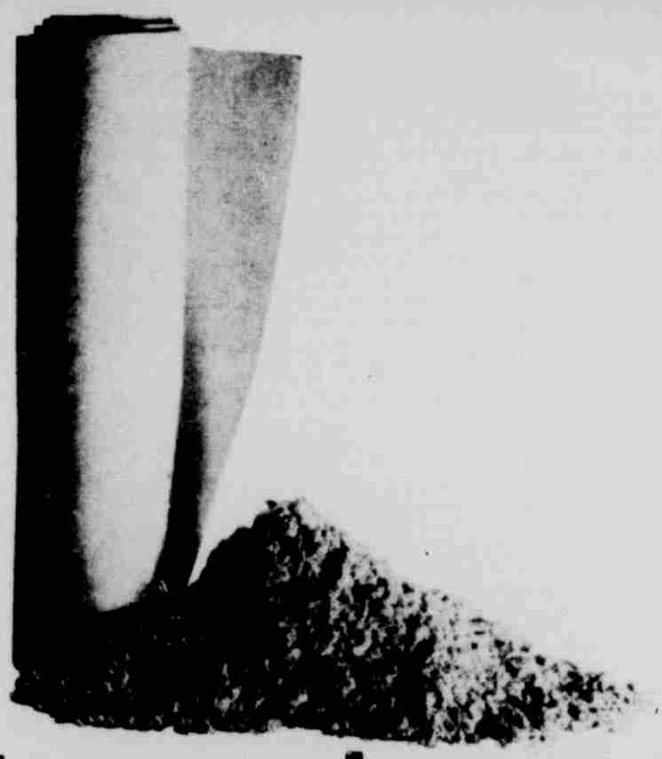
Dept. ASB-971, Carey-Canadian Asbestos,
Division of Panacon Corp.,
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CAREY.

Warehouse stocks at:

Atlanta, Thompson-Hayward Chem. Co.
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Birmingham, Thompson-Hayward Chem. Co.
Brooklyn, Smith Chem. & Color Co.
Buffalo, Commercial Chemicals, Inc.
Chicago, Chicago Firebrick Co.
Cleveland, Donald McKay Smith, Inc.
Dallas, Thompson-Hayward Chem. Co.
Davenport, Iowa,
Thompson-Hayward Chem. Co.
Denver, Plateau Supply Co.
Des Moines, Thompson-Hayward Chem. Co.
Detroit, A. E. Fleming Co.
Hallandale, Fla.,
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Houston, Thompson-Hayward Chem. Co.
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Thompson-Hayward Chem. Co.
Nashville, Thompson-Hayward Chem. Co.
New Orleans,
Thompson-Hayward Chem. Co.
Oklahoma City,
Thompson-Hayward Chem. Co.
Omaha, Thompson-Hayward Chem. Co.
Philadelphia, George A. Rowley & Co., Inc.
Pittsburgh, McCann-Shields Paint Co.
Portland, Durkin Chemicals, Inc.
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Shreveport, Thompson-Hayward Chem. Co.
St. Louis, Thompson-Hayward Chem. Co.
San Francisco, E. S. Browning Co.
Tampa, Thompson-Hayward Chem. Co.
Trenton, N. J., H. M. Royal, Inc.
Tulsa, Thompson-Hayward Chem. Co.
Wichita, Thompson-Hayward Chem. Co.
Winchester, Mass., W. D. Egleston Co., Inc.

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Two good starts...

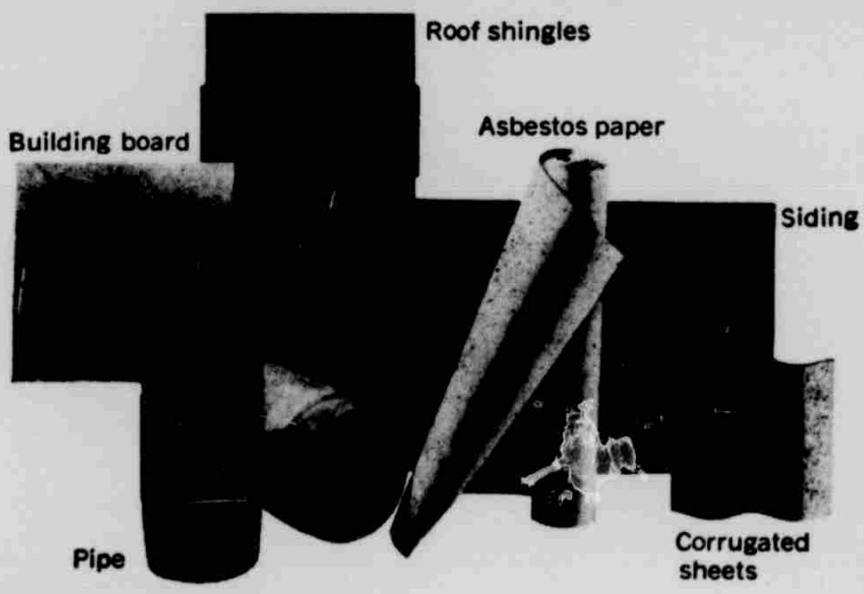
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