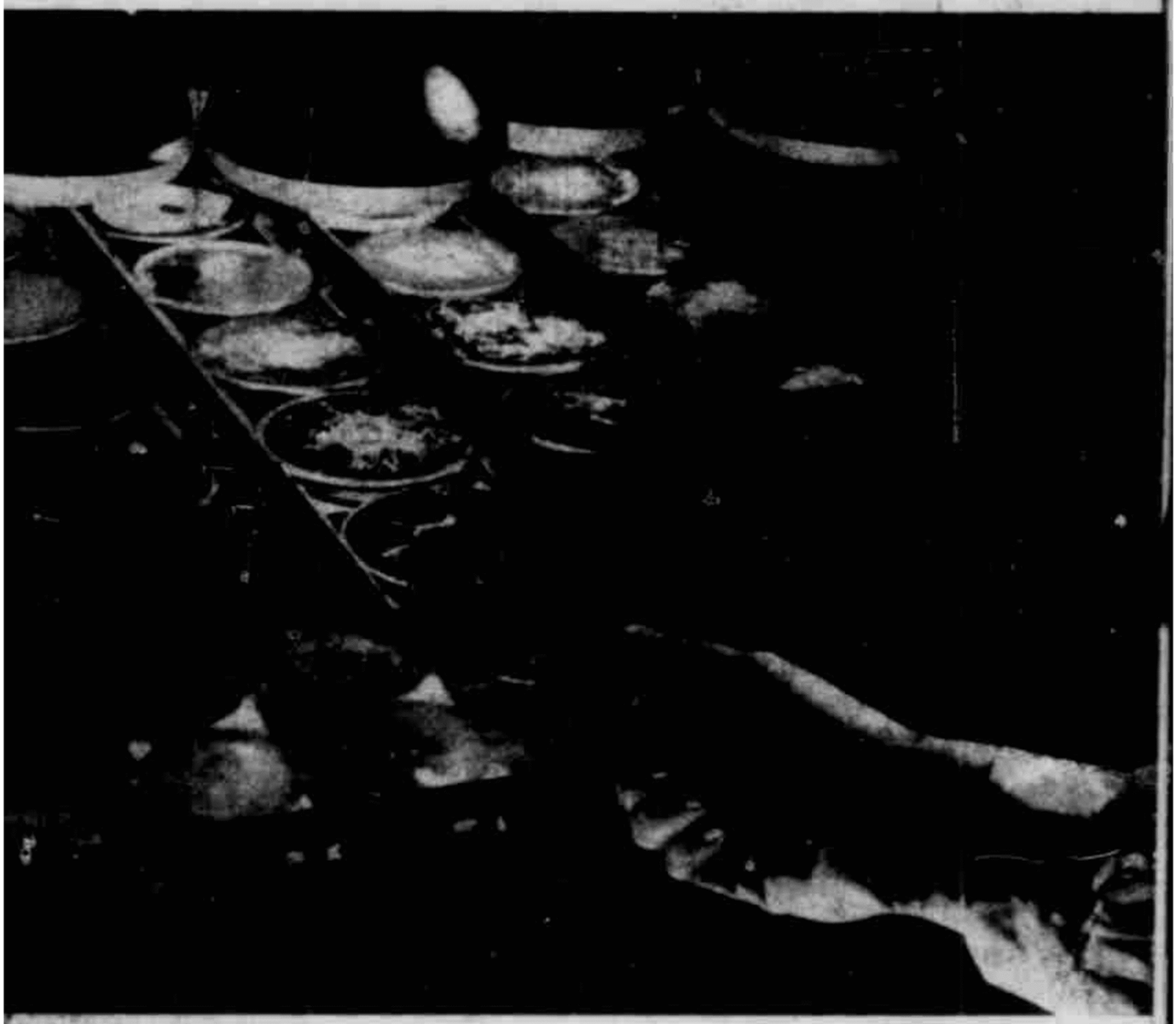
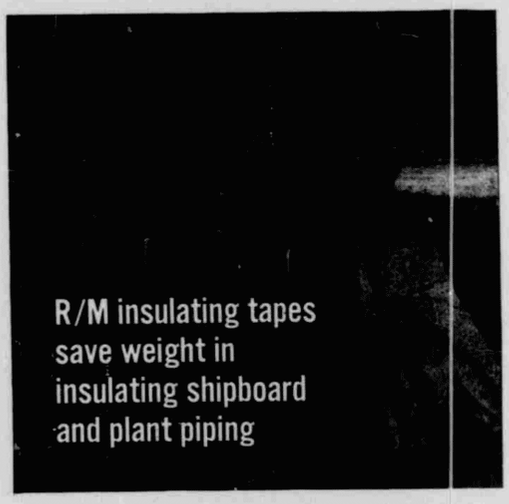
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red drying of fibre fractions from Turner & Newall wet classifier

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CONTENTS

	Page
MAKING THE MOST OF ASBESTOS	2
ASBESTOS AROUND THE WORLD ASBESTOS GOES BY BARGE ON THE NILE	10
A-C PIPE PLANT—REGINA, CANADA	16
UNIBESTOS MARKETED BY PITTSBURGH CORNING	18
ATI 19TH ANNUAL MEETING	20
AUTOMOBILE SALES	24
BUILDING	32
MARKET CONDITIONS	34
PRODUCTION	38
IMPORTS & EXPORTS	40
INDUSTRY NEWS	46
CURRENT RANGE OF PRICE	56
ASBESTOS STOCK QUOTATIONS	58

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MAKING THE MOST OF ASBESTOS

By: W. E. Sinclair, M.I.M.M.

The discovery of new metals has been in headline news in recent years. Actually, however, these cannot be said to be new discoveries in fact, but merely the bringing to light of certain rare metals unknown to most of us, except perhaps as museum specimens. Now, in the age of the rarer elements, these metals have been found to be of practical use and consequently of general interest as new wonder metals. Many of these rare elements, such as, berrylium, monazite, germanium, pyrachlore, and so on, are each in their different spheres, finding a niche in certain specialized uses in this scientific era.

This inspires one to ask, what of the more prosaic but useful non-metallic minerals? Very little general interest is displayed in these, even though many play a vital part in modern industrial activities. Asbestiform fibres must be classed in this category as being amongst the most important and essential minerals. Yet asbestos in any form is virtually unknown to the layman notwithstanding the fact that they are often in daily contact with articles in which asbestos is an important constituent. Besides the universal part it plays in the many appliances which are essential in our modern way of life, asbestos has assumed top priority as a strategic mineral in the making of munitions of war. How many of us know in what manner they are used in this respect?

Asbestos and other non-metallic minerals are quite evidently the Cinderellas in the metallic sphere today, their light being eclipsed by the glamour of the newer metals which now even exceed that of gold. This probably results from the enthusiasm of the popular press which, incidentally, serves as a useful advertising medium. It is this that inspires interest in these wonder metals and especially their application in this Atomic and Electronic Age.

This idea would seem to offer a means of offsetting the general ignorance of most people as to the fundamentals of asbestos and where, and in what way, the fibres are used.



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It is paradoxical that a mineral that plays such a vital part in the composition of so many objects in every day use is virtually unknown to users. This applies not only to the man in the street but sometimes to the man in the mine. In general, however, within the industry itself it is well known that studies of the natural inherent properties of the asbestiform minerals have in recent years afforded valuable data in the differentiation of the several varieties. As often pointed out, the quality of fibres is a relative term, since its characteristics make one class or grade of fibre suitable for a certain application where a superior quality fibre is undesiable. Thus, the common concept that most fibres are much the same has been disproved and has assured the use of the best suited type to meet the requirements in the fabrication of specialized products. In some cases this knowledge has resulted in the improvement in the manufacture of certain products and new ideas in others, as for instance, in clutch facings, brake bands and asbestos-cement pressure piping, plus very many new developments in the plastic industry.

Research work along these lines is of inestimable value to the industry and the world at large. Many of the diverse properties, such as the potential source of magnesium metal and salts in chrysotile waste and many almost unknown qualities in other varieties must eventually lead to valuable new applications in industry. There is little doubt that intensive investigations with the aid of modern effective electronic appliances probably more penetrating than our X-ray and microscopic devices will result in an increasing demand for special fibres as components in thermoplastic and in other more advanced discoveries in the plastic industry.

It is unfortunate that many of these basic facts are not generally known outside of the laboratories and testing plants of a relatively few large producer-cum-manufacturing concerns. Consequently many of the valuable results of this work are obviously restricted and available only to the firms concerned.

In these circumstances, is it surprising that the small or independent producer, although an expert in asbestos

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production and extraction, often offers unclassified, ungraded or imperfectly processed asbestos on world markets? These people, like so many in and out of the industry are obviously out of touch with all the refinements that govern the useful and important properties of the mineral insofar as these are required in the many different spheres of utilization.

This is not the only example of a restraining influence in our aim to make the most of asbestos. A more serious aspect is the lack of general knowledge of the elementary facts of the essentiality of the fibres in commerce today. As already suggested, ignorance is profound. A limited number of persons know that the mineral is incombustible and that's about all. Few knowledgeable people are aware of the many other natural attributes of the mineral and, indeed, the fact that it is actually a mineral would surprise most people. This is more or less understandable in the case of the man in the street but is startling when one finds dealers who are unaware of the fact that asbestos fibres constitute a valuable and sometimes a vital part of the object or commodity which they are selling!

Take for instance, the modern automobile, how many car salesmen know that asbestos is used to some effect in such a vehicle and, if so, where the fibres are employed and what quantity are used.

So it is with countless articles of commerce, building engineering, and household appliances and where asbestos is used in the textile industry as woven or moulded products, and in asbestos-cement and friction materials.

Knowledge of these countless forms of asbestos utilization would surely not only promote interest in other uses of asbestos fibres but in many instances would doubtless lead to an increased demand and insistence for asbestos products in preference to others. This is rather an important point since the growing use of artificial fibres as substitutes for asbestos is certainly a factor to be reckoned with in the future.

As an offet to this competition in the commercial world intensive research into new and improved uses of the different asbestos varieties if steadily pursued must

CLEOPATRA'S NEEDLE,
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Through the patriotic zeal of Erasmus Wilson, F.R.S., this obelisk was towed from Alexandria encased in an iron cylinder. It was abandoned during a storm in the Bay of Biscay, but recovered and erected on the Embankment, London, by John Dixon C.E. 1878.

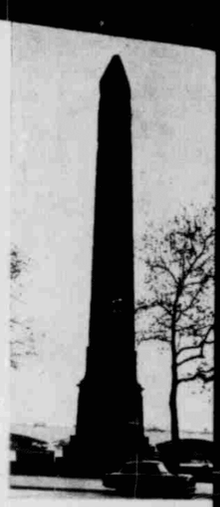
It was presented to the British Nation by Mahomed Ali, one-time Viceroy of Egypt, as a memorial to Nelson and Abercrombie.

The word Needle common to monument and felt alike serves to point to the new

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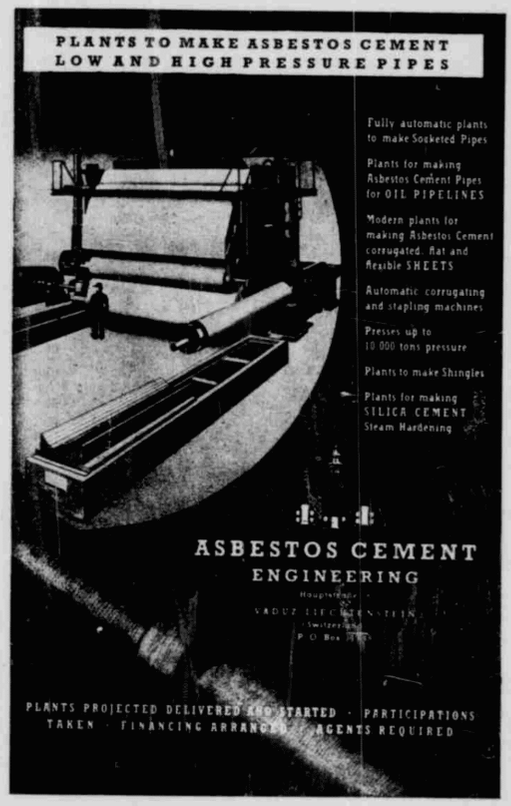
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cover a wider field. It is well known of course that in the fabrication of certain products in this advanced atomic age, the basic requirements are more exacting because the essential properties inherent in the different classes of asbestos offer the only organic fibres that will satisfy the extremes of conditions to be encountered.

Some of these, as previously mentioned, provide an enormous potential outlet for both low and quality asbestos in the growing plastic industry. Shorts and floats find a useful place in many forms of moulded plasties and when combined with different types of resins and other similar ingredients they produce a soft plastic caulking compound that remains either soft or can be hardened if required. In many other plastic compounds forming structural materials, different grades and classes of asbestos serve an important purpose as reinforcing agents and, when used as a mat they are extensively used to form laminates with various types of resins. Long fibre grades fabricated in the same way produce a strong material with good heat resistance that can be successfully used in the construction of many different objects, such as, small boats, automobile bodies, aircraft tanks and even in the building of small airplane wings. The most modern outlet for these asbestos plastic products is their use in different ways as ancillary parts, in satellites, in the missile nose cones and in rocket tubes.

It has been said that in the great aircraft carrier "Enterprise" some of the crew's bunks are located over the reactors, but are separated from these atomic furnaces by insulating layers of undisclosed material of unclassified thickness! One might hazard a guess that this material consists of asbestos! What else would it be?

It is in these developments, even more than the older, although more common usages, that would appeal to the man in the street, not that he is likely to consider investing in these man-made supersonic planets, but it would certainly serve as a means of focusing interest on the multifarious end uses of this versatile mineral.



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ASBESTOS AROUND THE WORLD

Asbestos Goes By Barge On The Nile

(This article, taken from the June 1963 issue of "The Asbestos Producer", is the sixth of a series prepared by Canadian author Jean Danard, who, in the course of a round-the-world voyage, is interviewing asbestos manufacturers.)

It seemed to be "company day" when I visited the Siegwart factory at Massarah near Cairo. This is the Egyptian company for cement products, locally known as Siegwart's, and the only one in the country producing asbestos-cement products.

In the office of General Manager Hassan Abdel Kader, an Englishman and a Chinese colleague from Singapore were asking about the Siegwart method of making asbestos-cement pipes. Discussion revolved around feeding arms, size of machines, raw material. Both companies use Canadian fibre, Siegwart's importing about 4,000 tons a year from mines in the Province of Quebec.

"Well", summed up the Englishman, "you seem to be better equipped than we are. Could we see your other factory at Shuora"? The smaller factory was 20 miles away but they had a taxi waiting.

"O course, of course", amiably agreed Mr. Kader. "I'll give you a note to our manager there". And he scribbled a note in Arabic, writing from right to left.

"Sorry to make you wait", he said when they had left. "But I tried to make the interview interesting for you too". Then quickly he briefed me on the company which had started in 1927 as a maker of concrete pipes and poles. It was not until 1948 that asbestos pipe production was started and, a little more than a year later, corrugated sheets.

Last year from the two factories, 40,000 tons of pipes and 7,000 of sheets streamed off the production lines. But a new sheet machine coming in May will increase capacity by another 10,000 tons of sheets a year and a five-meter pipe-making machine, now on order, will increase capacity another 20,000 tons a year.

For a plant tour I joined Chief Engineer George Banoub who is responsible for the production of asbestos products. In the quality control lab we ran into another

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visitor, a Yorkshireman so absorbed in discussing with his Siegwart host the engineering problems of producing concrete pipes that both men only broke off for a pleasant, "Good morning".

"Fibres and end-products are tested here", explained Mr. Banoub. "And", he added proudly, "I've never lost a batch of pipes because our standards are double the minimum."

In the plant practically all production is automatic. Mr. Banoub has two pipe-making machines at work, two for sheets and a third being erected. (There's another pipe machine at Shubra, none for sheets). Only end pieces for roofing are hand-moulded. "And I have a machine for that but it's not efficient. If the demand were large enough to justify modification," Mr. Banoub said, "I would do so". All in all he manages to keep 600 men busy 42 hours a week and that day, as the shift ended, his men were at the pay wicket, many gowned in the long, flowing galabeas that Egyptians find cool and comfortable.

Like all Egyptian factory workers, their fringe benefits include free medical services and pensions but Siegwart's add a few other frills — medical services to family members at a reduced fee, two free suits a year (one of cotton, another a blend) and a daily lunch for two or three piastres, five to eight cents in our money.

But all the activity wasn't at the two factories. At the head office in downtown Cairo, Chairman and Managing Director Mohamed Hassan Gemei (pronounced Gemay--eye-ee) skillfully managed four telephones and the questions of about a dozen associates along with my own.

"Exports? Yes, of course", said Mr. Gemei. "One-quarter of our production goes abroad. We ship to Greece, Kuwait, Sudan, New Guinea and Cyprus".

Mr. Gemei usually makes the sales contacts in Europe and his Sales Manager covers prospective customers in Algeria and Ghana. As a nationalized company and the only Egyptian asbestos company, all the local market comes to them. The pipes are used mostly for water supply although there is a market opening up for irrigation and, hopefully, sewerage pipes. Delivery is made by barge on the Nile unless speed is a factor; then trucks bear the loads.

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At the Aswan dam project, now under construction, they hope to supply sheets for office buildings — double sheeting with air between as insulation against the year-round heat. Already samples have been supplied to the government.

"The future? It's fluorescent", said Mr. Gemei. "Come back in two years and you will see a different plant".

ASBESTOS-ASPHALT PAVING—Opened to traffic, the newly constructed twin section of the Honore Mercier Bridge, linking the west-end Montreal suburb of LaSalle with the South Shore, has been paved with a mixture of asbestos and asphalt. It is believed to be the first time that the asbestos-asphalt mix has been used for bridge paving in this Province. Applied directly to the prestressed concrete deck, the mixture containing about two per cent of Group 7 fibre is claimed to diminish rutting and movement of the surface under heavy load conditions. Also, by making the surface more elastic, the paving mixture prevents cracking in cold weather.

The 3,000-foot long bridge and its approaches were paved with a two-inch base course, topped by one-inch overlay. The same proportion of asbestos fibre was used in both layers. The 33-foot wide roadway spanning the St. Lawrence required roughly 8,600 square yards of the mix. The quantity needed for all access roads is estimated at 108,000 square yards.

To date, test strips containing the new asbestos-asphalt mix have been laid on Highway 32, linking Danville with Asbestos, on streets in Thetford Mines and Asbestos, a section in Beauce County and on a 400-foot long taxi strip at Montreal's International Airport.

THE COVER—The photograph on the front cover of this issue of "ASBESTOS" shows infra-red drying of fibre fractions from a Turner & Newall wet classifier. The Infra-Red Dryer is used for rapid drying of fibre fractions from Classifier and other wet tests. The fractions from a given test are placed in a single removable frame as shown.

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ASBESTOS CEMENT PIPE COMPANY

Establishes Plant in Regina, Saskatchewan, Canada

Saskatchewan businessmen have invested $125,000 in a new company which will fabricate and distribute a complete line of asbestos-cement pipe and cast iron fittings for interior building use in western Canada. *White Pipe Products Company Limited* has established, in Regina, facilities for cutting, machining and finishing pipe, an office building, and a warehouse for fittings and accessories.

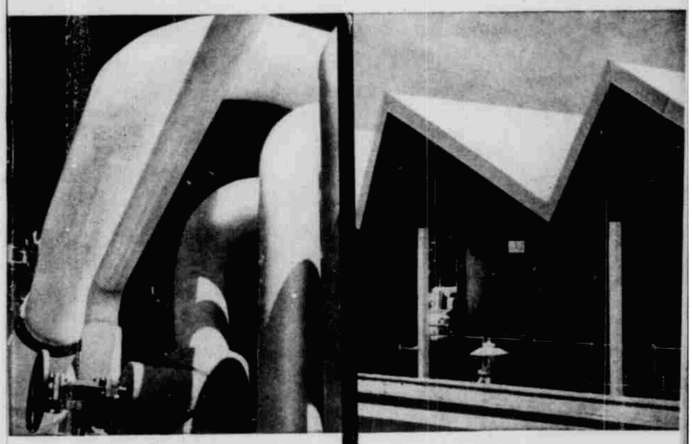
Company principals have spent three years on a research and development program, carried out in conjunction with *Crowle Fittings Limited* and *Canadian Johns-Manville Company Limited*, both of Toronto. The process adapts asbestos-cement pipe and specialized cast iron fittings equipped with a rubber ring-type joint to handle soil and waste stack, rainwater and underground sanitary or storm drain needs of the constuction industry. Where formerly these systems were entirely made from cast iron pipe, the Department of Public Health and Central Mortgage and Housing Corporation have approved the use of asbestos-cement pipe. The new company has already completed a number of domestic, institutional and industrial installations throughout the province, and have recently received a contract for the storm drains and rainwater leaders on stage one of the University of Saskatchewan, Regina campus.

White Pipe Products supply pipe in diameters from three inches to twenty-four inches. Lengths range from three inches to thirteen feet with three-inch increments to six and one-half feet, and six-inch increments from six and one-half to thirteen feet. Orders will also be accepted for pipe in other than standard lengths.

R. J. Turner, P.Eng., is company President and Manager of the complex located at 2918 South Railway Street on property leased from the Canadian Pacific Railway. Four persons are presently employed in Regina, and plans are now underway for establishing branch offices in Alberta and Manitoba.

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Another fine product—UNIBESTOS—has joined the Pittsburgh Corning Corporation family. A premium quality, high-temperature pipe insulation, Unibestos extends the PC name into new marketing areas.

PC's newest product is the only American-made industrial insulation composed of long-fibered amosite asbestos, combined with an inert silicate binder and diatomaceous earth. The rare fibers are much longer and finer than regular asbestos fibers; an equal weight fluffs into a larger mass. It has great resilience and a high resistance to bending, making a tough and highly efficient insulator.

Amosite asbestos is imported by PC from the Republic of South Africa, its principal source. The uniform, graded fibers are produced by the facilities of The Cape Asbestos Company Limited.

The versatile PC insulator will not burn, shrink, or, under thermal shock, crack. It resists water, acids and fumes. Highly durable, the product can be re-used many times substantially reducing maintenance costs.

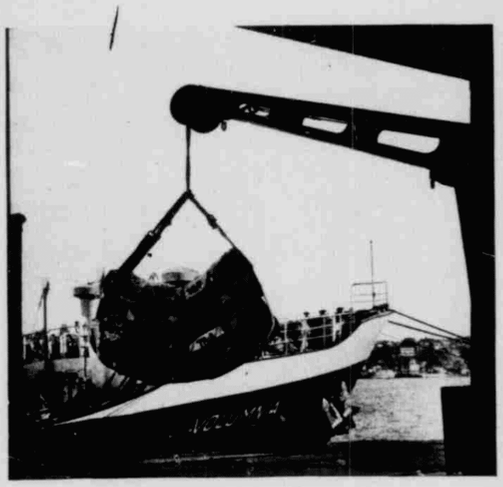
This sectional pipe insulation is used extensively in power, marine, refinery, chemical, petrochemical, and atomic fields.

Unibestos is manufactured in Tyler, Texas, at the plant Pittsburgh Corning acquired when the Unibestos operation was purchased*. Managed by J. W. McMillan, the plant employs approximately 60 new PC people.

Demand for Unibestos has grown so greatly this year that Pittsburgh Corning is building a new plant for its manufacture at Port Allegany, Pennsylvania, where other PC products currently are made. The new installation will supplement the Texas plant's production, and will allow faster and more efficient service to East Coast customers.

The newest member of the PC family fits well into the pattern of high-quality products long associated with the Pittsburgh Corning name.

*The sale of Union Asbestos & Rubber Company's "Unibestos" high temperature insulation line to Pittsburgh Corning Corporation was mentioned on page 50 of August 1962 "ASBESTOS".



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ATI 19th Annual Meeting

The Asbestos Textile Institute met on October 3rd and 4th, 1963, and held its Annual Meeting at the Barbizon-Plaza Hotel, New York City. On this occasion, the activities of the several working committees of the Institute were reviewed and the programs for the coming year outlined.

During the course of this meeting, new officers were elected to serve the Institute for the next year. S. J. Peele, Jr., of the United States Rubber Company, was re-elected President of the Institute; J. W. Weber, American Asbestos Textile Corporation, was re-elected to serve as Vice President; J. A. Brown, Jr., was re-elected as Treasurer; and, H. E. Sunbury was elected as Executive Secretary and Assistant Treasurer.

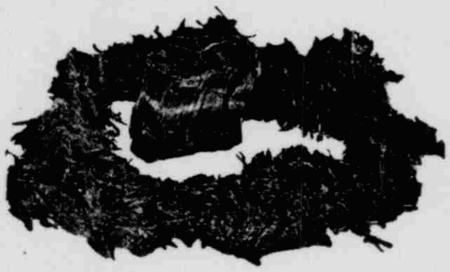
In recognition of the dedicated service to the Institute by Dr. M. C. Shaw, as Executive Director and Research Fellow, over a period of the last 17 years, he was presented (see photograph below) with a beautiful gold wrist



The gentlemen in the above picture, from left to right, are: S. J. Peele, Jr., President, Asbestos Textile Institute; W. S. Hough, Johns-Manville Corporation (presenting gift); Dr. Myril C. Shaw, former Executive Director and Research Fellow of the Asbestos Textile Institute (receiving gift); J. W. Weber, Vice-President of Asbestos Textile Institute; and, H. E. Sunbury, Executive Secretary, Asbestos Textile Institute.

watch, suitably inscribed by the members of the Board of Governors. Dr. Shaw resigned from his position on August 1st, 1963, to accept a research position with a large manufacturer of asbestos-cement pipes and other building materials.

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At the final session of the meeting, Mr. Alden R. Loosli, of the American Cyanamid Company, presented an extremely interesting and enlightening talk on "Production to Marketing—What A Change!". Mr. Loosli injected a good bit of humor into his talk and it was agreed by all in attendance that they felt it was a real privilege to have heard him.

TURNER & NEWALL LIMITED has decided to create a new department to be known as the *Turner & Newall Building Development Department*. This department will be charged with the responsibility for developing composite products and systems based upon materials made either now or in the future by one or other of the T&N manufacturing companies. It will have no responsibility for production or sale. The development workshop and most of the staff will be located near Widnes, England, at the Ditton Works of Turner Asbestos Cement Co. Ltd.

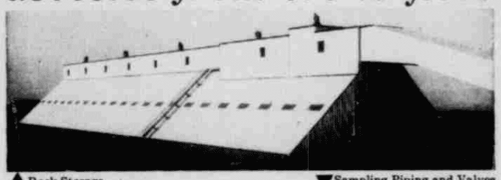
W. A. Balmain has been appointed Controller and will have his office at Asbestos House, Manchester.

1963 CENSUS—The 1963 Censuses of Business, Manufactures, and Mineral Industries will be taken early in 1964, with a deadline of February 29th. Asbestos firms will receive forms and we urge all in the Asbestos Industry to fill out the forms with the greatest of care, and return promptly to the Bureau of the Census, to the end that the final tabulation may be published by the Bureau at the earliest possible moment.

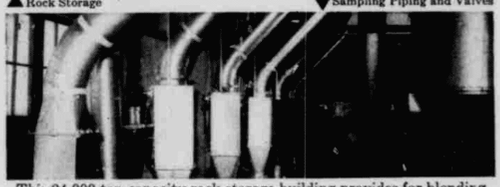
THE PHILIP CAREY MFG. CO. will show its line of industrial insulation products at Booth No. 4329-31 at the *Chemical Exposition*, Coliseum, New York City, December 2-6, 1963. Featured prominently in the Carey exhibit will be *Careytemp* Premolded Elbow Insulation.

Literature on Careytemp and the complete line of Carey Industrial Insulations featured at the show will be on display. Requests will be handled on a convenient mail-it-to-you basis immediately after the Chemical Exposition.

Quality controlled asbestos from ore to fibre



▲ Rock Storage ▼ Sampling Piping and Valves



This 24,000 ton capacity rock storage building provides for blending of ore from various sections of the Carey-Canadian open pit mine—the first step toward assuring customers of constant uniformity of asbestos fibres and shorts.

Solenoid actuated valves controlled from the Quality Control Laboratory periodically draw samples of fibre and shorts from mill production. Continuous testing of samples insures the quality and uniformity associated with Carey-Canadian Asbestos Fibre and Shorts.

Carey-Canadian "quality controlled asbestos" may solve some of your operating problems. The assistance of factory trained Asbestos Fibre Sales Engineers may be obtained by writing any address below:

Carey® ASBESTOS FIBRE

Carey-Canadian Mines, Ltd., P. O. Box 95, Cincinnati 15, Ohio
Carey-Canadian Mines, Ltd., East Broughton Sta. P. Q.
The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P. Q.

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AUTOMOBILE SALES

	August 1963
Passenger Cars	167,796
Trucks and Buses	83,649
	251,445

In August 1962 a total of 299,240 motor vehicles were sold. In the 8 months of 1963 the total was 5,800,854.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

PYROSPRAY, a fireproofing, spray-on asbestos and mineral fiber material, manufactured by *Baldwin-Ehret-Hill, Inc.*, has recently undergone new tests by Underwriters Laboratories, Inc. (U.S.A.) which certify its improved fire resistance.

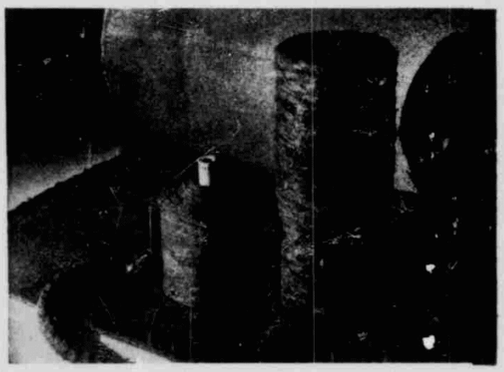
These tests, under Design No. 61, proved conclusively that Pyrospray, applied, following contours, 1/2" thick to metal deck systems, provides a 3-hour fire rating and 15/16" thick to supporting steel beams, a 5-hour fire rating. Also, under Design No. 18, Pyrospray applied 2-3/4" thick to steel columns has a 4-hour fire rating.

With only these minimum thicknesses required, considerable savings are effected in both material and applications costs—and dead-load weight is also reduced on light steel frame structures. Because of its composition, Pyrospray needs no preparatory application of any adhesive. It adheres securely, following the contours of the surface to which it is applied, as it is discharged directly from the spray gun nozzle. The use of Pyrospray speeds floor-by-floor construction since other building operations may continue without interruption. In addition, Pyrospray has excellent thermal insulating properties and high accoustical efficiency.

NORAMITE

... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
3313 Bloor Street West • Toronto 18, Ontario • Canada

Subsidiaries of The Cape Asbestos Company, Ltd., London

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PAUL-A. FILTEAU has been appointed as Secretary-General of the *Quebec Asbestos Mining Association*, it was announced by W. J. Johnson, President of QAMA.

Formerly with Quebec Cartier Mining Company as Director of Public Relations, Mr. Filteau, a native of Quebec City, is a graduate of Laval University (B.A.) and Queen's University (B.A. Sc.) in Mining Engineering. He is a member of the Corporation of Professional Engineers of the Province of Quebec, a member of the Canadian Institute of Mining and Metallurgy, Director of the Public Relations Society of Quebec, and a member of the Cercle Universitaire and the Engineers' Club of Montreal.

The office of the Quebec Asbestos Mining Association, under the direction of Mr. Filteau, is located at Suite 320, 580 Grande-Allee east, Quebec City 4, P.Q., Canada.

ORANGEBURG MANUFACTURING COMPANY, a division of the Flintkote Company, has just completed the installation of a second production line at its Flintite asbestos-cement pipe plant, located in Ravenna, Ohio. The new facility, which significantly increases the plant's output, will be used to produce 10-foot lengths of Flintite asbestos-cement pressure and non-pressure pipe in small diameter sizes. This will include pressure pipe in 3", 4" and 6" sizes; non-pressure sewer pipe in 6" and 8" sizes; building sewer pipe in 4", 5" and 6" sizes; air duct in 3" through 8" sizes; and, electrical duct in 2" through 6" sizes.

ORANGEBURG MFG. CO. has published a new 4-page, 2-color catalog describing the properties and applications of Flintite asbestos-cement building sewer pipe. The catalog gives detailed information on the uses, advantages, manufacturing processes, ingredients, and specifications of the new pipe. Illustrations show how the pipe is assembled and how the company's Weld-Tite couplings provide leak-proof connections.

Copies of Catalog AC62BS-1 are available without cost from Orangeburg, 375 Park Avenue, New York, New York 10022.

Mining, milling, marketing the best in asbestos fibres...

FLINTKOTE®

Fine chrysotile asbestos fibres custom engineered from the mine, through the mill, into bags for your discriminating requirements.

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MANUFACTURER OF DIVERSIFIED PRODUCTS FOR HOME AND INDUSTRY

Address inquiries to:

In U.S. — The Flintkote Co., 30 Rockefeller Plaza, New York 20, New York

In Canada — The Flintkote Co. of Canada Ltd., 30th St., Long-branch, Toronto, Ontario
Flintkote Mines Ltd., Thetford Mines, P.Q., Canada

In England — The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England

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COL. MAURICE H. WRIGHT, USA (ret.), 62, Special Representative in the Government Department of *United States Rubber Company*, died October 1st, 1963, after a brief illness. He had been with U. S. Rubber for 40 years, having joined the company at its Fisk plant in Chicopee Falls, Massachusetts, in 1923. He was a member of the Society of Automotive Engineers, the American Ordnance Association, Washington Rubber Group and the "Road Gang", an organization interested in highway matters.

ROBERT W. LANE, JR. has been re-elected Membership Committee Chairman of the Textile Section of the *National Safety Council*. He was first elected to the post in October, 1962.

Mr. Lane is Manager of the *UNARCO Industries, Inc.* Chembest Division plant in Marshville, North Carolina. The Chembest Division produces asbestos and polyurethane insulating material.

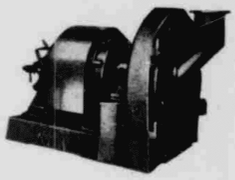
EDWIN MICHAEL FREEMAN, 66, a pioneer in the asbestos industry in Canada, died October 16th, 1963, in Brockville, Ontario, Canada. Mr. Freeman was founding president of the United Asbestos Corporation and a former vice-president of the Canadian Asbestos Corporation.

BAUER BROS. CO. has released Bulletin 63, entitled "Bauer Equipment for the Process Industries", describing and illustrating the entire line of Bauer equipment. Products are cataloged according to applications, as follows: Digestion and Extracting; Disc Machine Plates; Fiberization and Size Reduction; Fluid Expression and Impregnation; and, Separation and Classification. Laboratory sized refiners, classifiers and screw presses are also included. One section describes Bauer specialized equipment and systems. Several specific examples are diagrammed, including automated food processing, pulp and asbestos systems.

Copies may be obtained by writing The Bauer Bros. Co., Springfield, Ohio, or Brantford, Ontario, Canada.

BAUER

Single Revolving Disc Mills for Proven Economy in Wet Grinding



In these well-known Bauer mills, one disc rotates while the other remains stationary. This single disc action provides excellent economy and dependability in wet grinding applications, such as—

- Reducing coarse particles, 1/16" and larger.
- Deflocking fiber bundles in asbestos slurries, for the production of paper and cement.

These mills are adaptable to many specific purposes. We engineer installations to meet your requirements. Bauer experience in both wet and dry milling and our research facilities are at your service to help solve your production problems. Ask for Bulletin G-3.



Bauer-McNett Classifier — The Quebec Asbestos Mining Association has set up test methods, using this classifier in wet analysis, to determine size, length, distribution and dust content of asbestos fiber. Ask for Bulletin P-8-A.

The Bauer Bros. Co. Springfield, Ohio

In Canada: The Bauer Bros. Co. (Canada) Ltd., Brantford, Ont.

Export Agents: M. Neumunz & Son, Inc., 90 West Street, New York 6, N. Y.

BALDWIN-EHRET-HILL, INC. has acquired *Standard Asbestos Manufacturing Company*, 860 West Evergreen Avenue, Chicago, Illinois and the company will operate as a Division of B-E-H. This acquisition enables B-E-H to round out its line of insulating products which are designed for service from sub-Zero temperatures up to 2100°F. The insulation products manufactured by Standard Asbestos will be distributed nationally by the B-E-H marketing division.

Founded in 1906, Standard Asbestos manufactures a line of low pressure insulation products, including a cell, a wool felt and sponge felt insulations. Plans call for expanding this product line to include distribution of the items produced by B-E-H.

The present B-E-H Chicago District Offices, now at 35 East Wacker Drive, will be transferred to this new location. With 110,000 square feet of manufacturing, warehousing, and office space, and a fleet of company-owned-and-operated trucks, the company will expand its services in the Midwest area to provide a broad line of insulation materials in a central warehousing facility. This will constitute one of the most complete stocks of insulation in a single warehouse in the country.

In 1959, the former Baldwin-Hill Company merged with Ehret Magnesia Manufacturing Company at Valley Forge, Pennsylvania. Baldwin-Hill was founded in Trenton, New Jersey in 1935, while Ehret Magnesia had its origin in Philadelphia in 1897.

B-E-H presently operates five manufacturing plants located at Trenton, New Jersey; Valley Forge, Pennsylvania; Kalamazoo, Michigan; Huntington, Indiana; and Temple, Texas.

NFPA has just issued its Fire Protection Publications list for 1963-1964. Among the technical and educational materials on fire safety listed are the 2,216-page Fire Protection Handbook, the 10-volume, 6,400-page set of National Fire Codes, and 580 other NFPA texts.

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BUILDING

Construction contracts in September 1963 totalled $3,706,621,000, an increase of 13% above the like 1962 month, F. W. Dodge Corporation reported. Contracts for future construction in the first 9 months of 1963 in the United States amounted to $34,181,151,000, up 8% from the comparable 1962 period. Nearly every building type and construction classification contributed to the September increase. However, as has been the case throughout the year, the most notable exception was electric light & power systems which posted a decline of 56%.

Nonresidential building contracts in September totaled $1,153,619,000, a noteworthy gain of 13%. Substantial increases were reported for commercial building, up 7%; manufacturing building, up 18%; educational & science building, up 16%; and hospital and institutional building, up 19%. The cumulative total of contracts for the first 9 months is 35% above the 1962 level.

As contracts for apartments and one- and two-family houses surged ahead again, the dollar volume of residential contracts in September amounted to $1,788,730,000, a healthy gain of 18%. The number of dwelling units covered by these contracts was 126,969, up 20% compared to the like 1962 month.

Contracts for nonbuilding construction (public works and utilities) in September totaled $764,272,000, an increase of 4% compared to September 1962. However, while public works contracts reported a 6% gain, utilities contracts registered an 8% decrease.

Cumulative totals of construction contracts for the first 9 months of 1963 with percentage changes for the same 1962 period, are: nonresidential building, $10,929,247,000, up 9%; residential building, $15,662,085,000, up 12%; and, nonbuilding construction, $7,589,819,000, down 1%—total construction, $34,181,151,000, up 8%.

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That special combination of properties you need . . . Lake may have it!

What are your requirements? Chrysotile asbestos with high reinforcing strength plus superior wetting characteristics? Greater surface area plus low grit content? Whatever the combination, Lake may have exactly what's needed.

As a major producer with an annual capacity of 100,000 tons of high grade chrysotile asbestos fibre, we daily fill the special needs of customers throughout the world.

Write today to Lake Asbestos of Quebec, Ltd., 120 Broadway, New York 5, N. Y. . . . or to the sales agent nearest you . . .

NORTH AMERICAN SALES AGENTS:

California, Los Angeles — E. B. Taylor Company
California, San Francisco — E.M. Walls Company
Colorado, Denver — Braun-Knecht-Heimann Co.
Illinois, Chicago — Fred A. Jensen & Associates, Inc.
Massachusetts, Allston — D. H. Litter & Co., Inc.
Michigan, Detroit — Baker & Collinson
Missouri, St. Louis — Harry A. Baumstark & Company
New York, Buffalo — Buffalo Solvents & Chemicals Corp.
New York, New York — D. H. Litter & Co., Inc.
Ohio, Cleveland — A. C. Mueller Co., Inc.
Oregon, Portland — Van Waters & Rogers, Inc.
Pennsylvania, Conshohocken — Van Horn, Metz & Co., Inc.
Texas, Houston — Cron Chemical Corp.
Utah, Salt Lake City — Braun-Knecht-Heimann Co.
Washington, Seattle — Van Waters & Rogers, Inc.
In Canada: Toronto & Montreal — Federated Metals Canada, Ltd.

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LAKE ASBESTOS

ASARCO

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MARKET CONDITIONS

GENERAL BUSINESS.

The general business situation continues good. Paced by record sales and production of automobiles several sectors of the economy are showing significant strength. Steel production continues to rise and, while the index of industrial production dropped in August and rose only slightly in September, the gross national product reached a new high annual rate for the entire third quarter. Economists, for the most part, are cautious in their predictions beyond the first quarter of 1964, based on the fact that, aside from the auto industry, business is not really booming and there are no factors at work which would point to a sharp upswing in the near future. Corporate earnings are good and this, in part, accounts for the rise of the stock market to new historic highs in Mid-October. Personal income has been rising and this, if translated into increased consumer spending, could sustain or raise the level of business activity.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during September 1963 were 99,422 tons and exceeded the same period last year by 2,395 tons or approximately 2%.

Year to date shipments at 815,708 tons are running 25,338 tons or 3% ahead of the same period 1962.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Sales of asbestos textiles for the first nine months of 1963 have born out earlier expressed optimism of a continuing strong demand for the year 1963. Fourth quarter sales are expected to maintain the current level. Armed services procurements to date have been below anticipated requirements and are expected to fall below the 1962 level.

Asbestos Brake Lining. The present market situation

HUYTUF
NEEDLED FELTS
- last longer
- start faster
- increase production
- improve product quality
- lower felt cost
- make optimum use of synthetics

ask your
HUYCK MAN

continues to be very good and this condition should remain for the balance of the year.

Asbestos Paper & Millboard. Volume of business is still at a high level and prices remain firm. This situation is expected to continue through the 1963 4th quarter.

Corrugated & Flat. At present, this market appears to be running approximately the same as 1962. However, an upward trend between now and the end of the year is expected, with the result that 1963 volume of business will probably increase over last year.

High Pressure Insulation. Presently, the business volume is moving at a good pace and prices are very firm. Demand during the 4th quarter should be strong and 1963 could possibly be 5% to 10% above the previous year.

Asbestos Cement Shingles—Roofing & Siding. The current trend is still slightly upward and this situation is expected to continue for the balance of the year.

The above comments have been made by various informed executives in the industry. All comments are welcome.

THE ASBESTOS FACTBOOK (3rd Edition), a 20-page, pamphlet giving in compact form facts concerning origin, locations, uses, analyses, and qualities of asbestos, is available at 25¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

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Specialized in the manufacture of
HIGH QUALITY RUBBER RINGS
for all types of joints for asbestos-cement pipes.
Suppliers of the largest manufacturers
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UNDER STUDY: ASBESTOS HILL PROJECT,
UNGAVA, P.Q.

1440 St. Catherine Street West, Montreal, Que.
Telephone 868-1731

PRODUCTION

AFRICA (Southern Rhodesia)

(Published by The Chamber of Mines Journal) *Tons 2,000 lbs.*

	Production	Value
Asbestos: August 1963	11,009.90	£473,243*
August 1962	11,657.61	£589,735*

*Corrected to the nearest £.

CANADA

(Dominion Bureau of Statistics) *Tons 2,000 lbs.*

Producer's Shipments in August 1963 (Quebec)	119,149
Ontario, British Columbia & Newfoundland	10,757
	129,906

Total shipments for August 1962 were 117,544 tons.

foster

• COATINGS • SEALERS • ADHESIVES • FOR THERMAL INSULATION •

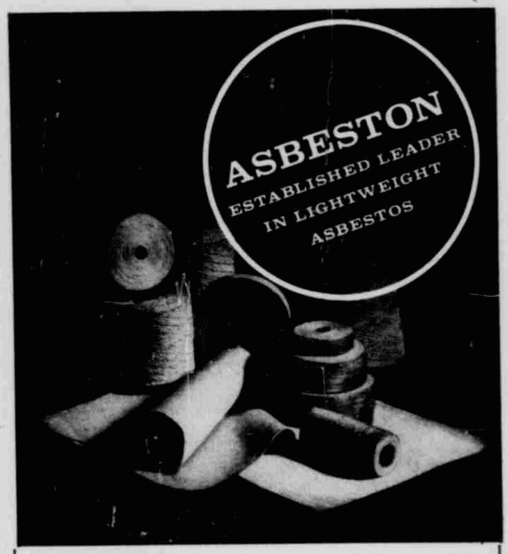
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DIVISION OF AMCHEM PRODUCTS, INC.

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And when unusual or special high-temperature conditions must be met, call on our experienced technicians to adapt the unique ASBESTON spinning process to the special yarns or fabrics you need.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — June 1963

Unmanufactured Asbestos: — Short Tons

From:	Canada	53,253
	Republic of South Africa	3,120
	Rhodesia & Nyasaland	442
	United Kingdom	435
	Yugoslavia	313
	Other Countries	220
	Valued at: $5,390,199	57,783

By Grades:

Crude, Blue, United Kingdom		100
	Republic of South Africa	2,000
Crude, Chrysotile, Yugoslavia		313
	Rhodesia & Nyasaland	240
	Other Countries	50
Crude, Amosite, Republic of South Africa		1,120
Textile Fiber, Canada		1,099
Other Fibers, Canada		52,154
	United Kingdom	335
	Rhodesia & Nyasaland	202
	Other Countries	170
		57,783

Manufactured Asbestos Goods:	Quantity (lbs.)	Value
Asbestos Yarn	8,079	$ 6,864
Asbestos Packing, Canada	68,773	12,874
United Kingdom	31,963	16,140
Other Countries	9,894	10,087
Asbestos Shingles (Impreg), Belgium	282,132	42,379
Other Countries	445,955	11,358
A-C Pipe & Fittings (Not Imp), Mexico	1,628,015	164,502
Belgium	2,951,106	157,465
West Germany	2,355,632	97,579
Italy	826,228	32,743
Other Countries	81,352	5,340
A-C Mfrs, Other (Not Imp), Canada	142,890	12,416
Other Countries	22,162	1,863
Asbestos Manufactures—Other, Canada	..	10,407
Other Countries	..	3,173
	8,854,181	$585,190

Imports Into U.S.A.

(Figures by Bureau of the Census) — July 1963

Unmanufactured Asbestos: — Short Tons

From:	Canada	52,990
	Republic of South Africa	2,244
	United Kingdom	420
	Yugoslavia	835
	Other Countries	44
		56,533
	Valued at: $5,098,834	

By Grades:

Crude, Blue, Republic of South Africa		447
	Other Countries	10
Crude, Chrysotile, Canada		100
	Yugoslavia	835
Crude, Amosite, Republic of South Africa		1,797
Textile Fiber, Canada		1,284
Other Fibers, Canada		51,606
	United Kingdom	420
	Other Countries	34
		56,533

Manufactured Asbestos Goods:	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	33,013	$ 23,256
Other Countries	14,173	11,249
Asbestos Packing, Canada	230,722	42,877
United Kingdom	24,239	12,496
Other Countries	108	461
Asbestos Shingles (Impreg), Belgium	870,684	111,511
Other Countries	219,475	10,602
A-C Pipe & Fittings (Not Imp), Mexico	613,200	54,257
Belgium	2,976,770	191,703
West Germany	1,666,585	71,572
Italy	599,098	24,277
Israel	303,974	14,763
Japan	1,327,633	50,159
Other Countries	9,590	347
A-C Mfgs., Other (Not Imp), Canada	155,391	15,226
Other Countries	54,384	2,492
Asbestos Manufactures—Other	..	11,450
	9,099,039	$648,698

Asbestos Magazine, 1963, November 1963
ACL Doc 12559 · Page 22 of 33
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Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	August 1963
From: Republic of South Africa	1,781
Basutoland, Bechuanaland & Swaziland	1,063
Rhodesia & Nyasaland	3,979
Canada	7,034
Other Commonwealth Countries & Irish Republic	..
Foreign Countries	238
	14,095

Exports From U.S.A.

(Figures by Bureau of the Census) June 1963

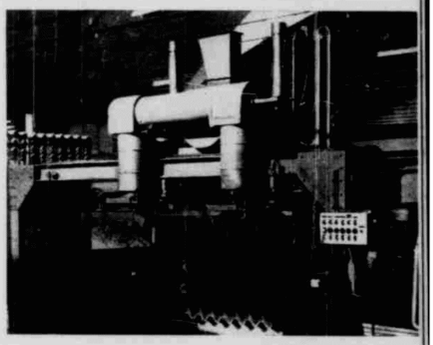
Unmanufactured Asbestos:	Short Tons	Value
To: Argentina	9	$ 2,227
Canada	4	1,200
Chile	5	1,780
Italy	119	23,100
Japan	381	36,862
Mexico	4	1,240
United Kingdom	24	2,910
West Germany	19	5,472
Other Countries	2	692
	567	$ 75,483

Manufactured Asbestos:	Production	Value
Asbestos Cement & Pipe Covering	Lbs 1,199,216	$ 251,881
Asbestos Textiles & Yarn	Lbs 55,495	50,582
Asbestos Packing	Lbs 134,920	196,135
Asbestos Clutch Facing	No 209,128	129,790
Asbestos Bk Lng (Mld & S.Mld)	Lin Ft 88,066	49,301
Asbestos Brake Lining, Other	Lbs 529,698	293,966
Asbestos Construction Material	Lbs 1,223,584	183,103
Asbestos Manufactures—Other	..	93,978
		$1,248,736

Carey Nine Month Report 1963—Net earnings of The Philip Carey Manufacturing Company for the first nine months of 1963 were $1,608,287, compared with $2,338,914 for the same 1962 period. Sales amounted to $51,225,091, compared with $54,764,114.

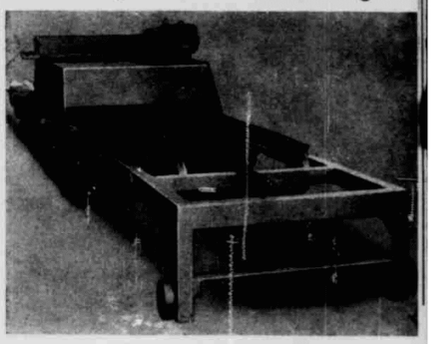
Sales for the third quarter of 1963 were $20,510,154, compared with $21,280,350 for the same period a year ago.

machines for removing asbestos - cement sheets from moulds



Fully automatic machines for removing asbestos-cement flat, straight corrugated and curved corrugated sheets from their moulds.
Oleodinamyc working with fast and exact displacements.
Suckers provided with jointed anchorage for a sure drawing of the sheet. Possibility of installation combined with the cleaning and lubricating unit.

machines for cleaning and lubricating steel moulds



Fully automatic machines for cleaning, lubricating and storing on the proper carriages the flat or corrugated steel moulds.
Cleaning section provided with rollers having a steel wire covering, and lubricating section with special cloth rollers that assure one regular oiling and low lubricating consumption.

E.G.M. FRATELLI SALVANESCHI
MACHINES FOR ASBESTOS-CEMENT PRODUCTS
VIA ROMA 27 BRONI (PAVIA) ITALIA TEL. 51024

Exports From Canada

(Published by Dominion Bureau of Statistics) — August 1963

Unmanufactured Asbestos:	Short Tons	Value
Crude		
United States	2	$ 2,820
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	1	698
Other Countries	..	..
	3	$ 3,518
Milled		
United States	15,465	$ 2,371,829
United Kingdom	5,010	932,292
South America	4,803	815,342
Central America & Mexico	1,707	306,945
European Countries	16,361	2,803,241
Other Countries	13,651	2,441,307
	56,997	$10,170,956
Shorts		
United States	39,125	$ 1,976,435
United Kingdom	3,226	204,383
South America	569	34,515
Central America & Mexico	264	16,897
European Countries	10,420	582,221
Other Countries	2,940	221,530
	56,544	$ 3,035,981
Grand Total— Unmanufactured Asbestos:	113,544	$13,210,455
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 17,578
Asbestos-Cement Building Materials		58,417
Asbestos-Cement Products, Other		50,104
		$ 126,099

J-M Nine Month Report 1963—Sales for the first nine months of 1963 of Johns-Manville Corporation were $307,607,000, an increase of 5% over sales of $294,295,000 for the same period of 1962. Earnings were $19,805,000 against $18,499,000, a 7% increase.

Sales for the third quarter of this year were $118,508,000, 7% higher than the figure of $110,335,000 for the third quarter of last year. Earnings of $8,603,000 were 13% higher than the figure for 1962 of $7,618,000.

SMITH (SK) and KANZLER CORPORATION

Asbestos Cements
Asbestos Millboard
Asbestos Rollboard
Corebestos Panel Fill
Commercial Asbestos Paper
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Asbestos Felts and Paper for Saturating
Spraycraft Fireproof Acoustic Plaster

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INDUSTRY NEWS

HAPPY BIRTHDAY

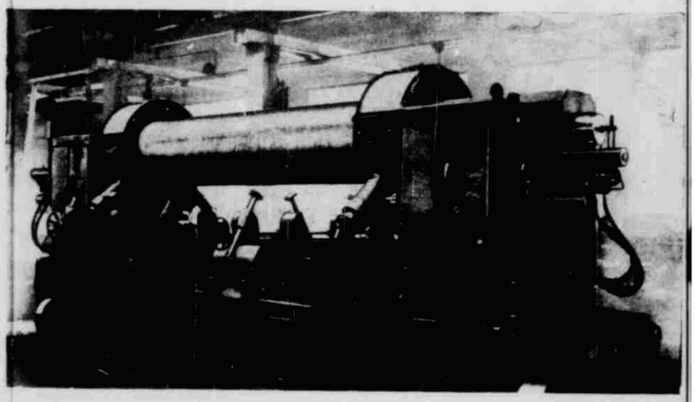
George F. Baccrich, President, Columbia Asbestos Company, Portland, Oregan, November 16.
J. J. Mangan, President & Managing Director, Hedman Mines Limited, Timmins, Ontario, Canada, November 16.
Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Limited, Johannesburg, South Africa, November 19.
Thomas H. Dermody, Vice President—Finance & Director, The Ruberoid Co., New York City, November 21.
H. C. Papritz, Vice President & Treasurer, Nicolet Industries, Inc., Florham Park, New Jersey, November 21.
A. J. Scanlan, President, American Asbestos Textile Corporation, Norristown, Pennsylvania, November 21.
Marion E. Hansell, Treasurer, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, November 22.
J. A. D. Marcotte, Special Assistant to the President & Director, Asbestos Corporation Limited, Thetford Mines, Canada, November 22.
E. J. O'Leary, President & Chairman of the Board, The Ruberoid Co., New York City, November 24.
William H. Parker, General Manager, Building & Cold Storage Insulation Division, Canadian Asbestos Company, St. Laurent, Montreal, Canada, November 25.
Miles M. Wilson, Vice President, Trade Relations, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, November 28.
John G. Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.
Frank G. Ruggles, President, Frank G. Ruggles Company, Inc., New York City, December 2.
Harvey D. Burgstresser, Vice President, Achenbach & Butler, Inc., Philadelphia, Pennsylvania, December 3.
K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.
P. M. Berry, President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio, December 8.
E. J. Fasold, Secretary & Assistant Treasurer, The Philip Carey Manufacturing Company, Cincinnati, Ohio, December 8.
Robert F. Orth, Vice President for Sales and for Pipe Division, Johns-Manville Corporation, New York City, December 8.
J. C. McKendry, President, Niagara Asbestos Company, Buffalo, New York, December 10.
Joseph J. Calao, Sales Manager, Asbestos Corporation of America, Garwood, New Jersey, December 11.
Algerd F. Jerome, Vice President, North American Asbestos Corporation, Chicago, Illinois, December 13.

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James A. Main, Vice President, Flintkote Mines Limited, New York City, December 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Flintkote Nine Month Report 1963 — Net sales of The Flintkote Company for the first nine months of this year amounted to $213,424,091, 3% ahead of the $207,091,788 figure for the first nine months of 1962. Net income totaled $10,030,811, compared to $9,332,404.

Net sales in the third quarter totaled $84,489,564 compared with $80,831,105 a year earlier. Net income was $5,532,218 compared with $4,855,380.

ASARCO Nine Month Report 1963 — Earnings of American Smelting and Refining Company for the nine months ending September 30, 1963, were $22,183,000 compared with $13,176,000 for the same period of 1962. In a regular report to stockholders, Asarco said that earnings have benefited principally because demand for its metals has been stronger this year and prices have been higher for many of them. Asarco says it expects the fourth quarter will be a good quarter if market conditions continue in the present favorable trend.

National Gypsum Nine Month Report 1963 — Earnings for the first nine months of this year for the National Gypsum Company rose 5.5% to $17,614,500 from $16,692,000 in the same 1962 period. Sales climbed 7% to a record of $188,671,000 from the $176,817,000 reported for the same period last year.

Third quarter earnings climbed 6% to $8,057,000 from $7,607,000 for the third quarter of last year and sales jumped 8% to a record $74,160,000 from $68,642,000.

Melvin H. Baker, Chairman expected both sales and earnings "to maintain their approximate 6% leads over the 1962 figures throughout the rest of this year."

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Turner & Newall—The Board of Turner & Newall Limited has announced changes at two subsidiary companies as a consequence of the retirement from the Boards concerned of **G. S. Sutcliffe** (a Joint Managing Director of Turner & Newall Limited) and **Kenneth Neve** (a Director of Turner & Newall Limited): **A. N. Marshall,** at present Managing Director of J. W. ROBERTS LIMITED, succeeds Mr. Sutcliffe as its Chairman; and, **J. P. McCormick,** at present Managing Director of TURNERS ASBESTOS CEMENT COMPANY LIMITED, succeeds Mr. Neve as its Chairman.

Turners Asbestos Cement (Nigeria) Limited, a company jointly owned by Turner & Newall Limited and the Eastern Nigerian Government, opened its new £1½ million factory on October 18th, 1963. The factory is located at Emene, eight miles from Enugu, the capital of the Eastern Region, and will produce asbestos-cement sheet for building and asbestos-cement pipes for water mains, sewerage and drainage. It is already in a position to meet the demands of the whole of Nigeria for asbestos-cement roofing products, and by April 1964 will be able to supply pressure pipes in quantities which could ensure adequate water supplies to every corner of the Federation.

J. C. T. Fell has been appointed Home Sales Promotion Manager of FERODO LIMITED, Chapel-en-le-Frith (an associate Turner and Newall Company). He had previously been Export Sales Manager of Turner Brothers Asbestos Company Limited.

A. J. Bennett has been appointed Export Sales Manager of TURNER BROTHERS ASBESTOS COMPANY LIMITED, Rochdale, succeeding Mr. Fell. Mr. Bennett joined Turners in 1949 and has held a number of executive positions in both home and export sales.

Turner Brothers Asbestos Company Limited, Rochdale, England, is centralizing its research activities and providing more space and improved facilities by erecting a new building on its Rochdale factory site, scheduled for completion in July 1964. The two-story frontage will house offices and laboratories and the single-level rear portion has been designed for experimental and pilot glass fibre plant and workshop accommodations.

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Producers of
Raw Asbestos Crudes
& Fibres

Sales Representatives
for
Cassiar Asbestos Corporation Limited

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American Vermiculite Corporation, New York City, is entering into the Asbestos Field. The new entry is a subsidiary of the HANS MERENSKY INVESTMENT AND TRUST COMPANY LIMITED of Johannesburg, Republic of South Africa, which is presently operating under the name: MERENCOR ASBESTOS MINES (PTY) LIMITED, P. O. Box 3222, Johannesburg.

Exploratory and testing operations have been conducted for the past two years and the processing plant is now under construction. It is estimated that production will be "on-stream" in June or July 1964. The new plant is the most modern unit available and revolutionary in concept. It is designed to process Cape Blue (crocidolite) asbestos, uniform in grade, free from foreign matter and completely fiberized. The Directors of Hans Merensky Trust are J. VON BULOW, A. G. DOUGLAS and E. G. BLOHM. These men also control Merencor.

Alex Logan, O.B.E., M.I.Mar.E., has been elected Deputy Chairman and appointed to the Board of BELDAM ASBESTOS COMPANY LIMITED. He retired recently from Shell Tankers Limited, of which he was Deputy Managing Director and Technical Director, having been with Shell for 36 years. He served his time in Green and Silley Weir's at Blackwall and prior to joining Shell, was with the Royal Mail Line, during service with whom he obtained his Chief Engineer's certificates. Mr. Logan is President-Elect of the Institute of Marine Engineer and is on a number of Government Committees, including the Department of Scientific and Industrial Research (Fire Research Board); Lloyd's Register (Technical Committee); and, the American Bureau of Shipping (British Committee).

J. Calvin Affleck has been appointed Advertising Manager of the Pipe Division of CERTAIN-TEED PRODUCTS CORPORATION. Mr. Affleck is former Advertising and Publicity Manager of the Keasbey & Mattison Company. In 1962 he became Western States Regional Manager of Sumner Rider & Associates, Inc. and established a West Coast office in Los Angeles, California.

Certain-teed, a leader in the field of building products and the nation's second largest producer of asbestos-cement pipe, acquired the pipe research, manufacturing and marketing facilities of K&M in 1962.

The above announcement was made in Ambler, Pennsylvania, by **M. Stanley Davis,** General Manager of the Pipe Division and Vice-President of Certain-teed.

E. J. O'Leary, President of The Ruberoid Co., has been elected President of the American Hardware Manufacturers Association for the coming year.

BALDWIN-EHRET-HILL



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C. W. Bell retired as Chairman of BELL'S ASBESTOS AND ENGINEERING (HOLDINGS) LIMITED on July 31st, 1963, due to ill health. Mr. Bell, grandson of the founder of the Group, John Bell, has served the company and its predecessor, Bell's United Asbestos Company Limited, for some 45 years. In recognition of his invaluable service, Mr. C. W. Bell was elected as life President of the company.

H. F. Allen was elected to succeed Mr. Bell as Chairman of the Group. Mr. Allen has some 40 years service with Bell's, 22 of which he was the Managing Director.

A. J. M. Miller is the present Managing Director of the Bell's Asbestos and Engineering Group. He was formerly Managing Director of Millers Insulation Company, of Glasgow, Scotland, and when Millers was absorbed into the Bell Group some 11 years ago, Mr. Miller joined the Parent Company Board.

J. P. R. Bell, Mr. C. W. Bell's elder son, is actively engaged in the business and is a Director of the Bell Group.

F. P. Parkes has been appointed Works Director of SMALL AND PARKES LIMITED. He joined the company in 1952, was Works Manager of the Manchester factory from 1958 until his appointment in January 1963 as General Works Manager, with responsibility for both Manchester and Barking factories. He is the son of the present Managing Director, Mr. A. H. Parkes, and the grandson of Mr. G. W. Parkes (senior) who was co-founder of the company in 1881.

P. Worledge has resigned from the Small and Parkes Board to devote all his time to his new appointment as Sales Director of KISMET LIMITED.

H. E. Martin-Leake, MA, AMIMechE, AMIProdE, has resigned his Works Directorship of Kismet Limited to take up a new post in the Parent Company. He remains on the Kismet Board in a non-executive capacity.

Hilton Elliott, AMIMechE is the new Works Director of KISMET LIMITED. He joined the Cape Asbestos Group in 1947 and has been Works Director of Marinite Limited since December 1960.

S. C. Black, BSc, AMIEE, AMIMechE, has been appointed Technical Manager of KISMET LIMITED, at Bedford.

The above companies are all subsidiaries of THE CAPE ASBESTOS COMPANY LIMITED.



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On-the-job performance has proved that the new Simplicity D'centegrator will produce longer fibres. The horizontal impeller action fibrizes so thoroughly that the longer fibres are not "dirtied." Tests to date also indicate a higher recovery rate and a lower percent of fines. Basic design permits lower initial cost and exceptionally low maintenance costs.

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CURRENT RANGE OF PRICE

As of November 10, 1963

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	$1,475.00 to	$1,650.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	500.00
Group No. 4 (Plastic & Filtering)	385.00 to	420.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT— Per ton of 2,000 lbs. f.o.b. Mine
(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

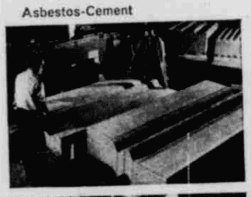
CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.
Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	142.00

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ASBESTOS STOCK QUOTATIONS

These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

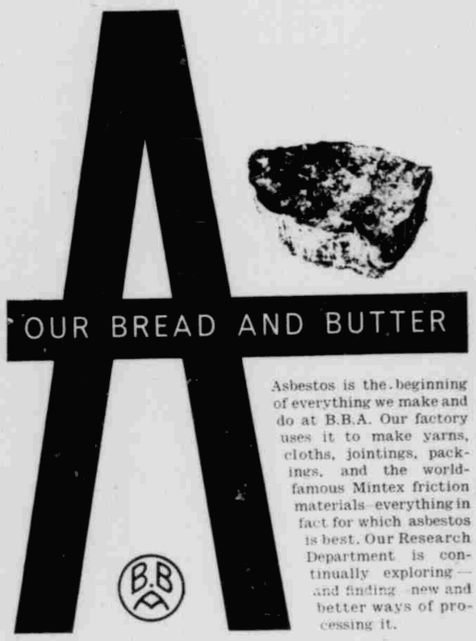
		October 1963		
	Par	Low	High	Last
Advocate Mines Ltd.	1	$6.85	$7.20	$6.90
American Brake Shoe	np	50½	53½	51
Amer. Smelting & Refining (Com)	np	78½	89¾	86⅝
Armstrong Cork (Com)	1	97	109¾	102½
Armstrong Cork (Pfd)	np	87	92½	91¼
Asbestos Corporation	np	23	25	24
Philip Carey	10	24⅝	25½	24¾
Cassiar Asbestos Corporation	np	10	11	11
Certain-teed	1	14½	17	15⅞
Fibreboard	np	30⅜	33	31½
Flintkote (Com)	5	20½	22⅜	23
Flintkote (Pfd)	np	86½	89	88
Jefferson Lake Asbestos	1	3½	5⅛	4⅛
Johns-Manville	5	47½	50	48⅛
National Gypsum (Com)	1	46⅜	48⅜	48
National Gypsum (Pfd)	np	100	103½	103½
Porter, H. K.	100	99½	101	99¾
Raybestos-Manhattan	np	39⅝	41⅛	40¼
Ruberoid	1	26	27⅞	26⅛
Seagrave	2½	9¼	11⅜	9⅞
Unarco Industries	5	14½	17¼	15⅞
United Asbestos	1	$2.70	$3.15	$2.75
U. S. Rubber (Com)	5	46	49⅛	47¼
U. S. Rubber (Pfd)	100	168	170¾	170¼

(ASARCO 7% Preferred Stock deleted from above listing—Option where stock is being exchanged for bonds and cash)

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(Act of October 23, 1962: Section 4369, Title 39, United States Code)

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1. DATE OF FILING: October 1963	2. TITLE OF PUBLICATION: "ASBESTOS"
3. FREQUENCY OF ISSUE: monthly	
4. LOCATION OF KNOWN OFFICE OF PUBLICATION (Street, city, county, state, zip code): 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107	
5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS (Not printers): Same	

6. NAMES AND ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR

PUBLISHER (Name and address): Secretarial Service, 807 Western Saving Fund Bldg., Philadelphia, Pa.	
EDITOR (Name and address): G. E. Cox, 312 S. 12th Street, Philadelphia, Pennsylvania 19107	
MANAGING EDITOR (Name and address): E. E. Cox, 312 S. 12th Street, Philadelphia, Pennsylvania 19107	

7. OWNER (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)

NAME	ADDRESS
Trust of C. J. Stover	702 Benson East Apartments, Jenkintown, Pa.

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None	

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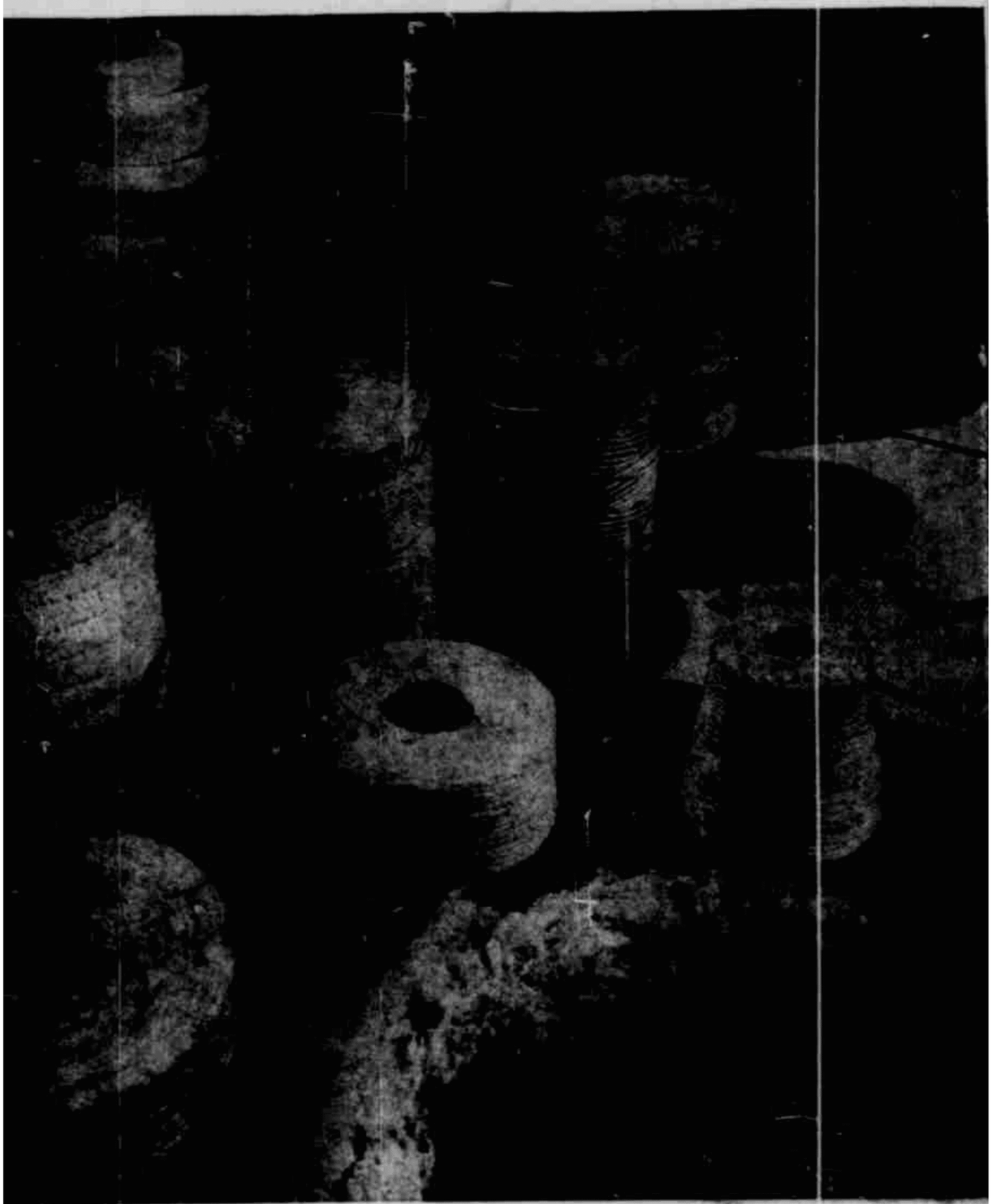
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