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nining a rock sample at the Turner & Newall asbestos fibre laboratory

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GREETINGS

(A number of leaders in the Asbestos Industry welcome the opportunity to extend greetings to their colleagues through our pages, and to comment on various topics of interest.)

A. L. Penhale—President & Managing Director
Asbestos Corporation Limited

It is with much pleasure that I take the opportunity so kindly afforded by this magazine to send, on behalf of our Company, Season's greetings to all our friends in the Asbestos Industry.

The year just passed does not seem to have been outstanding in any great respect for our industry as a whole, but as technical progress in the field of asbestos utilization throughout the world continues, we may reasonably expect gradual improvement in the years to come.

A Happy & Prosperous New Year to you all

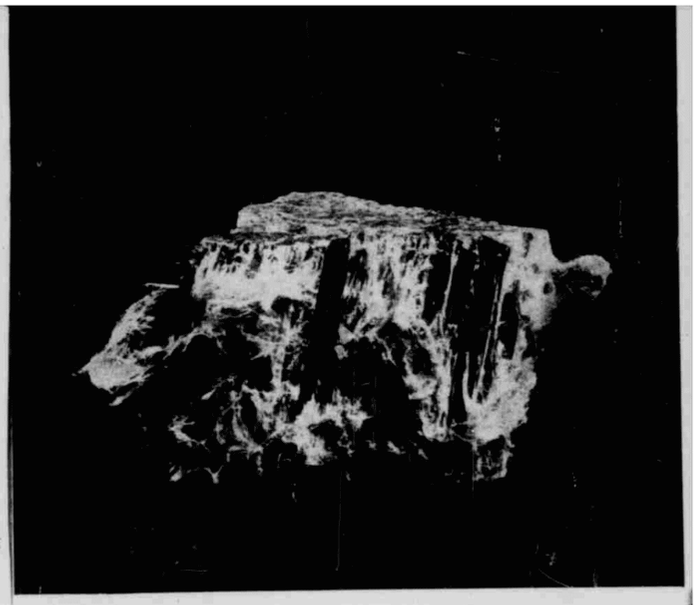
E. R. Stevens—President
Baldwin-Ehret-Hill, Inc.

Through "ASBESTOS" we are glad to wish a Happy New Year to our friends in the Industry. 1963 proved to be a better year than anticipated in many ways. We expect that increasing diversification of asbestos products and their uses will enlarge sales during the coming new year.

Changing technology is altering the old familiar forms of insulation and fire-resistant building materials but asbestos remains a basic component for its strength, weather resistance, incombustibility, chemical inertness and ability to be combined in so many attractive as well as useful products. We should all work together to promote them for our mutual welfare.

R. H. Dent—Chairman & Managing Director
The Cape Asbestos Company Limited

During the past year, the Asbestos Industry has been stimulated by the general improvement in trading conditions and faces the future with renewed confidence. Whilst



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For technical and sales information contact:
ASBESTOS CORPORATION LIMITED
Thetford Mines, Quebec

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it is becoming increasingly necessary to find new outlets for asbestos products, the demand for building and insulation materials continues unabated, and these products form an essential part in the pattern of improved living standards throughout the world.

It is with great pleasure that I take this opportunity, on behalf of The Cape Asbestos Company Limited, of wishing all our friends in the Industry a happy and prosperous New Year.

John W. Humphrey—President
The Philip Carey Manufacturing Company

We welcome this opporunity to extend to our many friends in the Asbestos Industry our sincere gratitude for the pleasant associations we have experienced over many years and wish them a very prosperous 1964.

Numerous products in which asbestos is being used, together with the unique characteristic of this miracle fibre, leads us to look to the future with great optimism.

The building industry accounts for a sizeable usage of asbestos fibre in an exceedingly broad range of products such as paints, plastics, roofing and flooring materials, asbestos-cement boards, shingles, siding, corrugated, etc., to name a few. This industry holds a bright future for new construction and remodeling of existing buildings. Also, a broad range of materials that are essential to industry continue to reflect a favorable trend in their continued and expanded use of asbestos.

It is our firm conviction that we should aggressively, through research activity and otherwise, be able to find many, heretofore, unexplored areas in which asbestos can be used to advantage.

Malcolm Meyer—President
Certain-teed Products Corporation

The strength of our great nation's economy and America's dedication to progress will create ever-increasing opportunities for the Asbestos Industry to produce and

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market building materials in the years ahead.

Progress will be further sparked by a surging population growth seeking the continuation of the highest standard of living in the world.

The Asbestos Industry has a vital interest in this growth market and will obtain its share.

In the asbestos-cement pipe business, 1963 was a record year. We expect continued growth due to increased acceptance of the product by municipalities expanding or modernizing their water and sewer systems. We have formed a Pipe Division of our company to concentrate on its research and development, production and marketing.

We are glad to have this opportunity to again express our warmest greetings and best wishes to our friends in the Asbestos Industry.

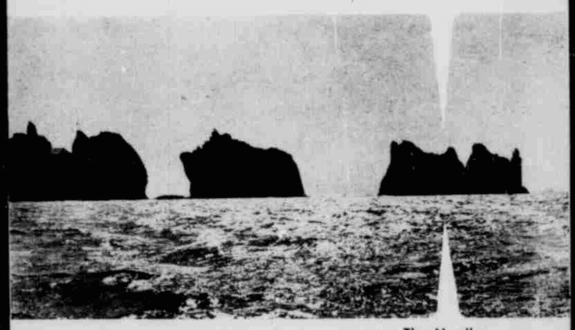
George J. Pecaro—President
The Flintkote Company

As producers and processors of asbestos fibre and a manufacturer of asbestos consuming products such as pipe, siding and floor tile, we look back over the year 1963 to assess our accomplishments. During the year, we completed the expansion of a vinyl-asbestos floor plant in Canada, acquired floor tile producing facilities in the Eastern United States and brought into production our new asbestos-cement pipe plant at Ravenna, Ohio. We are pleased to report that our line of pipe products, distributed under the new brand name of Flintite, have been well accepted in its specialized markets.

To better serve the quality needs of our asbestos fiber customers, we installed new laboratory facilities at our asbestos mine and mill in Quebec. I am happy to say our personnel have met the challenges of the past year in a way that reflects great credit on the company.

During 1964, we look forward to a continuation of good business with increasing demands on the industry for quality and service. As in the past, we know our industry will meet the problems of the new year when called upon, and we send all of our friends in the industry our best wishes for a successful and prosperous 1964.

A CHALLENGE
TO TIME . . . . .



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C. B. Burnett—President
Johns-Manville Corporation

We in Johns-Manville take this opportunity to greet our many friends in the Asbestos Industry and extend our best wishes for the coming year.

The Advocate Mine at Baie Verte, Newfoundland, was completed and put in operation at the end of 1963. This new mine and mill, financed by a group of investors headed by Canadian Johns-Manville, will market a major portion of its output overseas.

The Asbestos Industry had a good year in 1963. This was particularly noticeable in the second half. We look forward to an extension of this solid growth in 1964.

R. D. Bradford—President
Lake Asbestos of Quebec, Limited

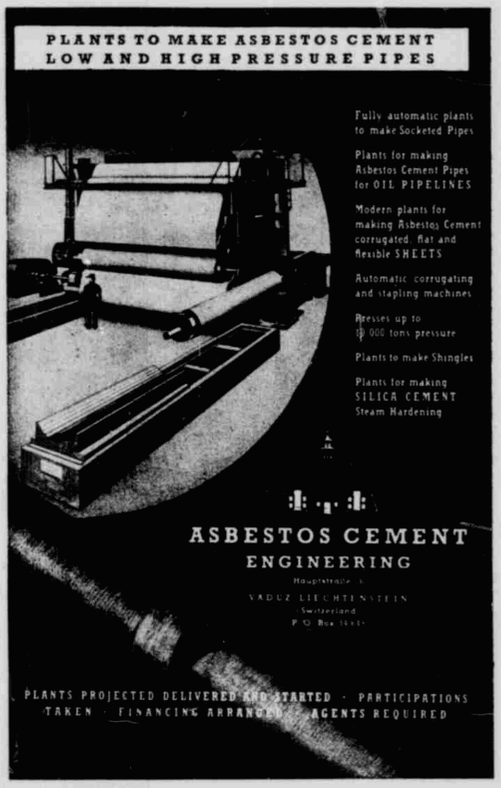
As with all basic raw materials, there is a continuing effort on the part of asbestos fiber producers to supply milled fibers to ever more exacting specifications on the part of consumers. As some of the older uses of fiber reach a limit or decrease, other established uses and new uses are developing in a manner which indicates an upward trend for asbestos fiber consumption. Research and development by both consumers and suppliers of fiber is gaining momentum and this is an encouraging factor as we look ahead.

It is our pleasure through the good offices of "ASBESTOS" to wish all our friends and associates a Happy Holiday Season and kind regards for the New Year.

Melvin H. Baker—Chairman of the Board
National Gypsum Company

1963 was a fairly good year for the sale of asbestos building products. Profitwise, prices were too low and competitive activities were not all that could be expected.

Asbestos siding, as it is manufactured today, has many superiorities over wood, pressed fibreboard and aluminum. Because of more effective promotion by these, asbestos was



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not used to the extent it should have been.

This calls for more constructive promotion in the market place by the producers of asbestos siding. To this end, I hope that members of the Asbestos Industry will make a more prosperous year for 1964.

Philip A. Meyer—Vice President
Nicolet Industries, Inc.

To "ASBESTOS" and our many friends in the Asbestos Industry, we send greetings and all good wishes for the New Year.

In thinking back over the past year, the outstanding events were not registered in our Asbestos Industry, but our Industry could have been profoundly affected by those events. Fortunately, the United States once again demonstrated its capacity to cope with shocking events. Under its new President, business continues to move ahead, radiating confidence to business communities in other countries.

The outlook for 1964 continues promising in our opinion. One supporting factor is worthy of note. The new huge crop of babies throughout most of the world points to expanding business just to take care of their basic needs including housing. Our Asbestos Industry should therefore be one of the benefiting industries, not only for 1964, but for many years to come. At Nicolet we figure 1964 will be a better year than 1963.

Jan Van Der Putten—Chairman & Managing Director
Putten's Asbestos Organization:
(Johannesburg, South Africa; Salisbury, Southern Rhodesia; London, England)

It is with pleasure that I take advantage of the opportunity given to me, to convey my sincerest wishes and best greetings, to our numerous friends and associates in the Asbestos Industries all over the world.

1963 was a most successful year for our organization. Stocks of Rhodesian and South African fibres, which, owing to certain circumstances accummulated during the early

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part of 1963, were all successfully disposed of before the middle of the year. In fact, the demand for "quality" fibres is steadily increasing.

In spite of the somewhat extraordinary market conditions during the early part of 1963, we managed to maintain our 1962 turnover figures for 1963 and the prospects for 1964 are very encouraging indeed.

We promise our continued support and closest cooperation to all our friends. May the new year be a prosperous and successful year to all.

John F. D. Rohrbach—President
Raybestos-Manhattan, Inc.

To all our friends in the Asbestos Industry I extend sincerest wishes for continued good health, success and happiness.

We can report a reasonable degree of progress during 1963 and I look forward with cautious optimism to the opportunities which should benefit us all in 1964.

May the true spirit of Christmas continue in our lives.

E. J. O'Leary—President
The Ruberoid Co.

The extremely competitive condition within the asbestos fibre industry during the past few years will be no less severe in 1964. Nevertheless, I am confident that the economy of our nation will gain new strength, providing our industry with the opportunity for continued progress. The key to progress is persistent and daring research to create exciting new applications for asbestos. At Ruberoid, we are not only emphasizing this objective but are concentrating on producing the highest quality fibre for existing products.

To all our friends and associates in the Asbestos Industry we extend sincere best wishes for the most prosperous and successful year ever.

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R. G. Soothill—Chairman
Turner & Newall Limited

It is a great pleasure to send our greetings to all friends in the Asbestos Industry and to wish them a happy and prosperous New Year.

The year 1963 was one of varying fortunes and the indications are that 1964 will be another challenging one because of the highly competitive conditions prevailing.

Probably the most important task before the Industry is to develop new uses for asbestos, and to intensify research work on both mining and manufacturing problems relating to the presentation and technical characteristics of asbestos fibres. The recently inaugurated Turners Asbestos Fibre Laboratory is proving of increasing importance in the solution of these problems.

William E. Clark—Vice President & General Manager
Textile Division, United States Rubber Company

On behalf of United States Rubber Co., I wish all readers of "ASBESTOS" magazine a joyous holiday season and a prosperous and peaceful New Year.

It is gratifying to look back on 1963 as a year of continued high demand for asbestos textiles. I believe that sales volume will be equally good in 1964. However, profits have been squeezed because of the increase in manufacturing costs. There is much that is being done and will continue to be done to offset pressure on profits. Technological improvements and higher selling prices will, I believe, help the industry's position by contributing to more sound operations.

In our industry, we are all aware of the need to continue placing greater emphasis on quality, service and value. By doing so, we will maintain our agressiveness in asbestos products. The long-range results will be greater sales and improved profits.

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E. E. Cox—Editor
"ASBESTOS"

It gives me a great deal of pleasure to have this opportunity to express my own and my staff's sincere gratitude for the many Christmas Cards and Greetings received from kind readers all over the world. May all in the Asbestos Industry enjoy good health and prosperity during 1964.

MICHAEL J. MESSEL has been elected *President* of *Lake Asbestos of Quebec, Limited*, according to an announcement by the Company's Board of Directors. Mr. Messel, who will be located at the Company's properties in Black Lake, Quebec, Canada, succeeds R. D. BRADFORD, who has resigned to devote his full time to the Presidency of *American Smelting and Refining Company*, New York City.

Mr. Messel was born at Cabot, Manitoba, Canada, in 1915 and is a graduate of McGill University, in Montreal, with a degree in Mining. After graduation, he worked as an engineer at asbestos properties in Thetford Mines, Quebec and in 1940, he went to South America as Technical Director for the asbestos fibre and asbestos-cement projects of a large French firm. He returned to North America in 1946 and served as General Superintendent and later Manager of the Vermont Asbestos Mines Division of The Ruberoid Co.

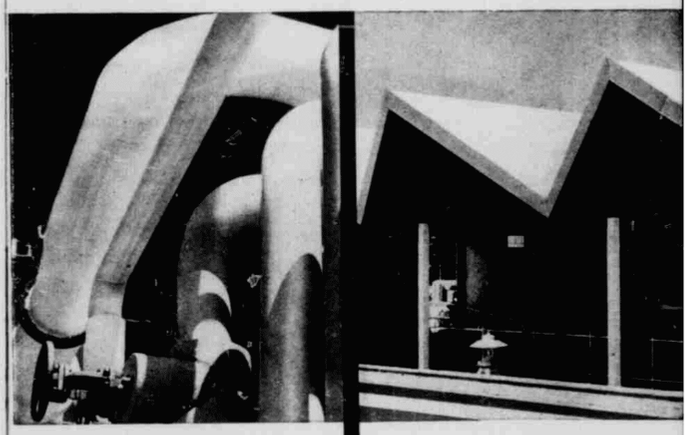
Since 1956, Mr. Messel has been associated with Lake Asbestos of Quebec. He began as General Manager at Black Lake during construction of the mine and mill. He was appointed a Vice President in 1958.

Mr. Messel is a Vice President of the Quebec Asbestos Mining Association.

Lake Asbestos of Quebec, Limited, is one of Quebec's newest and largest asbestos mining and milling operations. It began production in 1958 with an annual capacity of 100,000 tons of fibre. The Company is a subsidiary of American Smelting and Refining Company.

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VICISSITUDES IN ASBESTOS MARKETS

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

(Mr. Sinclair is Consulting Engineer to Puttens Asbestos Corporation Limited.)

There is an element of uncertainty in the industrial world today, as is evident in market prices and the weaker demand for raw materials in some places.

Although the price of most minerals is subject to variation, the commercial value of asbestos suffers more frequent fluctuations that depend usually on the law of supply and demand, a factor, of course, that governs the value of all commodities in the industrial field. Hence, the demand for asbestos varies with the unequal and variable trend in trade and commerce and, consequently, prices on the free market vary accordingly.

These conditions are well-known to the producer who has had the misfortune to experience such vicissitudes in the past. For others it will be wise to plan prospective output and production costs to weather such surprise uncertainties as falling demand and reduced prices.

More often than not there is little indication or warning as to the extent or seriousness of such depressions and, similarly, the swing of the pendulum back to normal is just as uncertain, although there are occasions when the return to basic prices is gradually restored in certain local industries.

That these variable conditions are not always widespread or applicable to all varieties of asbestos is noticeable in Southern Africa today. Insofar as the production of chrysotile goes, both Southern Rhodesia and South Africa show a fall in output and lower values. This drop in production is more pronounced in South Africa where the weak demand has actually resulted in the closure of some of the smaller mines in the Transvaal despite the outstanding industrial boom conditions that prevail in the Republic today.

By contrast, crocidolite and amosite production in the Republic is increasing in tempo and new crocidolite projects are opening up in the Cape field. The annual crocidolite output has risen from 93,800 tons in 1961 to 116,320 tons in 1962 and is still rising. Amosite production is likely



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to exceed that of crocidolite in 1963.

Unfortunately, however, the substantial amphibole output is not sufficient to maintain the total value of asbestos exports which, in the first nine months of 1963 is lower by nearly one-million Rand (£5,000,000) due mainly to the drop in chrysotile production.

The steady and rising production of crocidolite and amosite is indicative of the fact that the world demand for these amphibole varieties is steadily increasing and indeed displacing chrysotile in the manufacture of many industrial products.

The extent to which chrysotile is losing ground is difficult to assess mainly because of the uncertainty of the tonnage of the Russian (and other Eastern countries) asbestos that is being dumped on the European markets.

As already suggested, however, there is no doubt that the unsettled state of world conditions generally is due to the repercussions of political instability and the lack of economic sense in so many newly developed countries. This, in fact, is the main cause of the prevailing depressed state of affairs today.

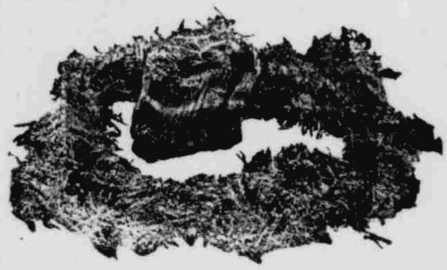
It is natural that these adverse factors are directly responsible for the unstable commercial demands.

The whole position offers an example of the possible vicissitudes that the producer must be prepared to meet. In any form in which it occurs, from the producers point of view, it boils down to the question of planning production policy on a basis where the product can be extracted at a figure definitely above the normal or basic market price during any depressed period. An important point in this respect is that tonnage output and operating efficiency constitute key factors, because efficient production methods spell increased output at lower costs and therefore, assure returns that are economic regardless of fluctuating demands.

Generalization of the many factors that, either directly or indirectly, influence asbestos production will be found to include both manual and mechanical practice in every sphere based on sound technical considerations.

The growing steepness of the cost gradient today, irrespective of times of recessions makes it imperative to

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examine every avenue and every detail where control of operations can be analyzed to assist in maintaining maximum efficiency. This is particularly important in both the manual and mechanical sphere of operations. It is, sometimes, the more or less insignificant details in mine or mill workings that form the essential links in the productive processes making for overall efficiency so necessary to achieve economic results.

The tremendous strides in advanced technical and scientific planning aided by outstanding progress in mechanical and electrical design have, without doubt, introduced economies in every branch of the industry. There often remains, however, the necessary manual link, although the controlling human factor is so often the weak link in the chain. Where workers are an essential part of the organization, mostly in some form of combination of men and machines, care must be exercised in dove-tailing the operating sections to ensure a smooth streamlined organization. This is an important first step to efficiency or the ability to produce the desired maximum results effectively and economically.

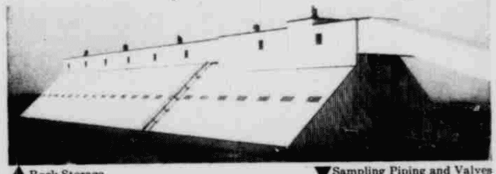
It has already been mentioned that the organizations of a team that works in unison is a vital factor in attaining maximum efficiency otherwise wastage of labor and time is inevitable. This may even occur if some men are more apt or better workers than others. Manual labor, like machines, should be standardized to give even and uniform performance.

Technical skill in the mechanical and industrial field is an essential quality underlying the whole basis of operational procedure. Indeed, a combination of theory-cum-practice forms an ideal beginning in productive effort, from the initial development of the orebodies to the final fabrication of the fibres produced.

Higher and cheaper productivity depends also on the judicious direction of labor, time and money and the absolute avoidance of waste of any kind. It is the cautious employment of these factors, to obtain positive results, that constitute the basis of productive efficiency.

There are practices to be eschewed, as for example, when selective mining consists of nothing more than a

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dishonorable method of extracting the rich and easy-to-mine asbestos and leaving the low grade ore. Such procedure may reflect a measure of economic mining and good returns on paper, but in practice it represents a negative force and a serious wastage of ore.

Included in many apparent non-important details, are such abstract matters as the possible use of by-products in mill or factory, thereby possibly avoiding waste by using cuttings, trimming or tailings. There are many such factors that all add up to cost reduction and they constitute points that should be tackled, in normal running conditions, rather than leaving them or any such weaknesses to times of depression or low selling prices, when producers and manufacturers are faced with many other difficulties. Indeed, if not considered in normal operations, it is only in times of depression that producers are forced to consider pressing action by ways and means of waste elimination or better utilization of available materials, or even more modern technological treatment in extraction or production methods.

Since it is evident that practice and theory form a basis in most operational spheres, it is clear that coordination in every operation is, in itself, an overall purpose towards the elimination of wasted effort and profitless overlapping. This is often the result of poor labor control.

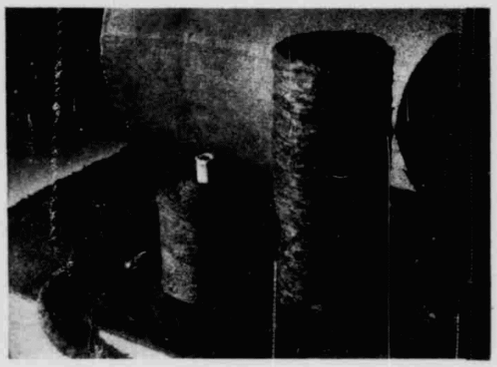
The problems arising from the study of men and machines to attain maximum results may often be included in ergonomics or the science of human relations, as previously suggested.* Also by systematic application of work studies, it is sometimes possible to bring about the most surprising economies from the introduction of the most simple changes. Some such, for instance, may take the form of the elimination of any conditions that may be troublesome or a nuisance to men. These may consist of dust, poor ventilation, extreme temperatures, excessive noise or vibration. Some of these conditions may even cause excessive and unnecessary wear and tear of machines and equipment.

On jobs where labor takes an important part in productive work, some engineers advocate a policy of incentives to discover some form of inducement to encourage em-

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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.



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ployees to work harder. This question, even if applied scientifically, is one that is not recommended as a positive answer to a practical solution of maximum effort. Indeed, incentives savor of the carrot and the donkey, which obviously serves only as a temporary inducement.

There are far too many variables involved to allow for any definite solution to the problem. The form of conditions of employment and the class of men or women employed, are amongst other practical considerations that introduce difficulties in many cases. True, in certain uniform and regular operations, a system of piece rates indicates that more work can be done in a shorter time, but whether the quality of the product is up to standard is often open to query. The theoretical hypotheses of incentives can only be tested in practice by an enlightened management to prove its fallibility or otherwise.

In modern advanced technological practice, even scientific management has, in certain circumstances, turned to forms of industrial engineering as a means of work measurement in various operations, alternatively, efficiency is often gauged internally by the introduction of work study methods.

As a final point in the consideration of ways and means to counter the adverse effects prevalent in times of industrial stress, there remains the all important matter of plant maintenance. This, and the study of mechanization, automation and allied subjects must be reviewed in another article at a later date.

*Ergonomics in the Asbestos Industry—by the author; "ASBESTOS", April 1962.

THE COVER—The photograph on the front cover of this issue of "ASBESTOS" is showing a man examining a rock sample at the Turner & Newall asbestos fibre laboratory. Asbestos fibres have been teased out from the mass of the specimen, and the very fine sub-division immediately obtainable is clearly visible.

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

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PROPOSED ASSOCIATION

Classification of Cape Blue Asbestos

The major producers of Cape Blue Asbestos in the Republic of South Africa have for many years been conscious of the lack of standardization in the grades and designation of the Cape Blue Fibres produced in the Republic. However, all previous discussions within the Industry, aimed at rectifying this position, have proved unsuccessful.

During the last year or so, the question of standardization and rationalization of the production of Cape Blue fibre has been steadily pursued by major producers, and agreement has now been reached, with the knowledge of the Natural Resources Development Council, for the formation of an association in South Africa whose objects will be to attain, as far as is possible, standardization of grades and their nomenclature, and also to develop the exceptional inherent qualities of Cape Blue Fibre, so encouraging its greater use. Naturally, to achieve any degree of success with these objectives, very close liaison will have to be maintained between the producers and users of this versatile material.

The Founder Members of the association are Cape Blue Mines (Pty.) Limited, Griqualand Exploration and Finance Company Limited and Wandrag Asbestos (Pty.) Limited, but other producing companies have been kept informed of the discussions as they progressed and on many points their views have been sought. Now that the initiative has been taken, it is hoped that all producers will cooperate so that there will be one fully representative body for the whole Industry.

The Association will provide services for the assistance of the mining and producing companies and also to users of Cape Blue Fibre throughout the world. Furthermore, it will carry out regular testing to ensure conformity to the standards laid down, and will provide a convenient platform for the exchange of views on production and technical problems.

It is also intended to establish a Research and Development Council whose task will be to initiate and undertake

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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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scientific research on problems associated with the production, processing and use of Cape Blue Asbestos Fibre. At the moment details of the research program are still being worked out; but it is agreed that the results of this research will be utilized for the benefit of the Industry as a whole—both users and producers—and the research program is to be financed by a levy on all member companies.

Some of the producing companies already maintain their own laboratories and can provide a store of knowledge which will immediately be available to the new Research and Development Council and, through them, to any association member or user of Cape Blue Asbestos Fibres.

ASBESTOS FUNDAMENTALS, by Hans Berger, a well-known authority in the European field of the industry, is a very interesting book which offers to both the technical man and the general reader a comprehensive survey of the most important facts and findings on asbestos—the only natural inorganic fibrous material that finds wide application in industry. It was originally printed in the German language and has been translated to English by Dr. Ralph E. Oesper.

The emphasis is, as far as possible, entirely on asbestos as an important and interesting substance in itself, rather than as just one of the general group of fibrous substances. A few comparisons are made, however, to show that asbestos holds its own with the new fibers of glass and plastics.

To make this manual of immediate practical use to the reader, standards and tests are discussed in the pertinent sections of the text. Valuable summaries of references to the literature with emphasis on recent research and development in the U.S.A., Germany and U.S.S.R. are included. This handbook will be of permanent value as a guide to the whole field of asbestos and its uses.

"Asbestos Fundamentals" can be obtained from the Chemical Publishing Company, Inc., 212 Fifth Avenue, New York, New York, 10010 ($6.00).

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WORLD'S FIRST MANUFACTURER
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Greater durability — Uniform quality — Rapid delivery



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AUTOMOBILE SALES

	October 1963
Passenger Cars	803,997
Trucks and Buses	141,674
	945,671

In October 1962 a total of 850,971 motor vehicles were sold. In the 10 months of 1963 the total was 7,345,328.

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

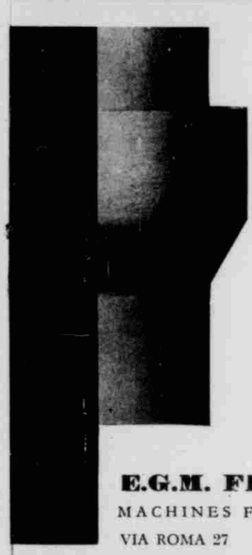
JOHN M. HIGH, Sales Manager of the Insulation Division and Director of Trade Relations for the Mundet Cork Corporation, retired from business October 1st, 1963. He had been with Mundet since January of 1953. Previous to that, Mr. High was Manager of the Insulation Division of The Ruberoid Co. for approximately 20 years.

Mr. High received his training in the insulation business when he was Secretary and Sales Manager of Norristown Magnesia & Asbestos Company, having started with them in 1927. He was also a part of the Johns-Manville organization. After he finished his course in Chemical Engineering at the University of Pennsylvania, he was associated with J-M's Philadelphia branch.

Prior to Mr. High's retirement, he had, for the past decade, been Secretary of Committee C-16 ASTM on thermal insulation. He was also one of the original members of the newly-formed Trade Relations Association.

Mr. High expects to spend his retirement at his Philadelphia and Ocean City, New Jersey, homes devoting more time to his two hobbies—golfing and his 32-foot cabin cruiser.





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Machines for producing asbestos-cement pipes with or without monolitic socket obtained using as the starting material a thick slurry by winding superposed layers and compressing them by means of mechanical vibrations over a rotating mandrel.

Machines particularly studied for employing short and very short asbestos fibres and for producing round or square and rectangular pipes with the socket solid therewith.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues on a slow upward trend. The auto industry continues at a record pace, both in production and sales. Steel production is steady and producers predict a good first quarter in 1964. Industrial production and personal income set new high records in November. All things considered, 1963 was a good year and early 1964 promises to be even better in most areas of business and industry.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during November 1963, at 134,033 tons were 7,700 tons or approximately 5% lower than the same period last year.

Year to date shipments at 1,062,037 tons are running 21,339 tons or 2% ahead of the same period 1962.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Recent activity in Government purchases of cloth and the high rate of auto production are contributing heavily, both directly and indirectly, to a strong year-end position in the industry. The asbestos textile industry will finish 1963 with a very favorable record insofar as volume is concerned. Profits, however, have not faired so well as a result of increased costs and lower selling prices. The industry looks to 1964 with every confidence of keeping pace with the projected 5-6% growth in Gross National Product.

Asbestos Brake Lining. 1963 has been an exceptionally good year for this product and a continuation of good business is expected during 1964.

CLEAN NEW and RECLAIMED FIBRES

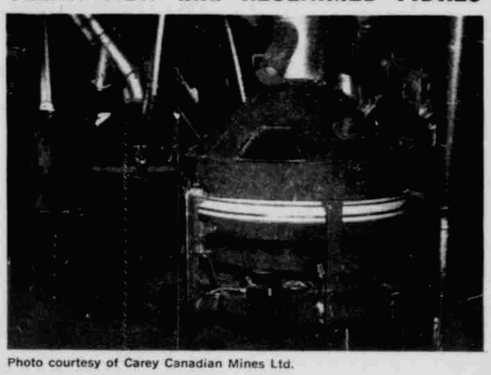


Photo courtesy of Carey Canadian Mines Ltd.

BAUER SPECIFIC-GRAVITY SEPARATORS

Modern asbestos mills and processing plants utilize Bauer Specific Gravity Separators for separating rock and fibres and reclaiming processed fibres. Two models, rated at 1 to 5 T/hr. capacity, use less air than other type cleaners; handle No. 4 to No. 7 fibres.

Fast, efficient removal of small grit, rock particles, blasting wire, wood particles and other kinds of debris. Ask for details.

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Asbestos Paper & Millboard. The demand for this product continues normal and there are no signs of significant change. Prices are holding steady. This situation is expected to continue, with the possibility of a modest increase in sales volume after the first quarter of 1964.

Asbestos Saturated Paper. The market situation at present is seasonally good and this market is expected to remain the same during 1964.

High Pressure Insulation. Presently, business is at a good level and 1963 should finish strong with volume higher than last year. Prices are very firm and there are signs of a possible increase right after the first of the year.

Low Pressure Insulation. The market for commercial pipe insulation continues strong, due largely to demands for industrial and institutional usage. There is some evidence of the usual seasonal decline for residential use. A continuation of the present situation is expected in the early part of 1964 with an upturn in demand in March.

Asbestos-Cement Siding. Demand for this product has increased and continued improvement is anticipated in 1964, based on expected generally good business conditions.

Asbestos-Cement Pipes. The seasonal nature of this business is becoming evident by a slow-down of shipments and new orders. Business continues moderate in the warmer areas of the country.

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

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HOLMES FOUNDRY LIMITED has published a new List for high temperature pipe insulations entitled "Discount Tables for Pipe Covering and Insulation Block" dated October 1963.

Those interested may obtain a copy by contacting Holmes Foundry Limited, Insulation Division, Sarnia, Ontario, Canada. Singles copies of the new list and discount tables are available free of cost, but a charge of $1.00 each will be made if quantities are requested.

ASTM—"The Impact of Modern Physics on Materials" will be the theme of the International Conference on Materials to be held at the Sheraton Hotel, Philadelphia, Pennsylvania, February 3rd to 7th, 1964. The conference is sponsored by the American Society for Testing and Materials in cooperation with the International Union of Testing and Research Laboratories for Materials and Structures (RILEM - France).

The *1964 ASTM Committee Week* will coincide with the Conference.

ASBESTOS MINING METHODS, by C. V. Smith, a 16-page phamphlet describing the various methods employed in mining asbestos, and, MILLING ASBESTOS, by J. C. Kelleher, companion article to Asbestos Mining Methods, 16 pages, are available at 25¢ each from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

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PRODUCTION

AFRICA (Southern Rhodesia)

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

	Production	Value
Asbestos: September 1963	11,592.56	£503,003*
September 1962	11,727.29	£611,180*

*Corrected to the nearest £.

AUSTRALIA

(Published by Bureau of Mineral Resources) *Tons 2,000 lbs.*

1st Quarter 1963	Production	Imports	Exports
Amosite	..	1,230	..
Chrysotile	154	6,769	2
Crocidolite	2,898	1	651
Other	..	332	50
	3,052	8,332	703

CANADA

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

Producer's Shipments in October 1963 (Quebec)	112,500
Ontario, British Columbia & Newfoundland	12,755
	125,255

Total shipments for October 1962 were 116,269 tons.

Correction—Statistics for Australia in the Production section of October 1963 "ASBESTOS" (page 44) are for the 4th Quarter 1962 not the 4th Quarter 1963.

Correction—Statistics for Republic of South Africa in the Production section of December 1963 "ASBESTOS" (page 56) are for the 2nd Quarter 1963, not the 3rd Quarter 1963.

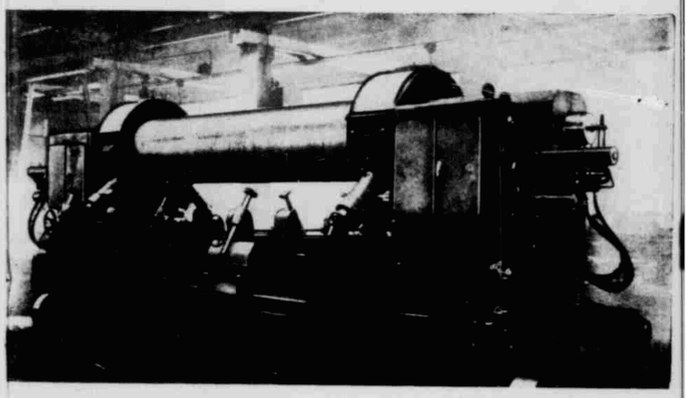
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Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually improving the design of the individual machines and by making their operation largely automatic.

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IMPORTS & EXPORTS

Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.

		October 1963
From:	Republic of South Africa	2,161
	Basutoland, Bechuanaland & Swaziland	996
	Rhodesia & Nyasaland	2,815
	Canada	9,190
	Other Commonwealth Countries & Irish Republic	..
	Foreign Countries	226
		15,388

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plastic material - metals

Suppliers of the most important

Italian and Foreign manufacturers of pipes

Exports From Canada

(Published by Dominion Bureau of Statistics) October 1963

Unmanufactured Asbestos:	Short Tons	Value
Crude		
United States	3	$ 4,860
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	28	21,166
Other Countries	7	5,305
	38	$ 31,331
Milled		
United States	16,182	$ 3,079,433
United Kingdom	3,965	786,212
South America	2,509	435,160
Central America & Mexico	2,005	360,228
European Countries	11,694	2,345,562
Other Countries	8,494	1,390,810
	44,849	$ 8,397,405
Shorts		
United States	40,982	$ 2,181,234
United Kingdom	2,552	129,977
South America	661	36,151
Central America & Mexico	499	38,124
European Countries	8,783	529,002
Other Countries	4,780	379,755
	58,257	$ 3,294,243
Grand Total— Unmanufactured Asbestos:	103,144	$11,722,979
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 18,109
Asbestos-Cement Building Materials		132,974
Asbestos-Cement Products, Other		41,249
		$ 192,332

THE STORY OF ASBESTOS by E. A. Woolnough, Headmaster, Shabani Public School, from Minerals Year 1963 has been issued as a teaching aid by the Natural Resources Board of Southern Rhodesia.

"ASBESTOS" will be glad to lend its copy of this very informative and instructive publication to interested readers.

Asbestos Magazine, 1964, January 1964

ACL Doc 12561 · Page 23 of 31

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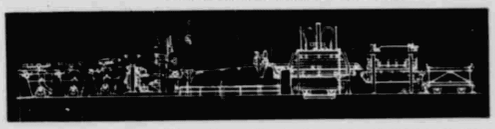
INDUSTRY NEWS

HAPPY BIRTHDAY

Thomas Muir Warden, Director, The Cape Asbestos Company Limited, London, England, January 15.
Alvin F. Heinsohn, Vice President & Director, Raybestos-Manhattan, Inc., North Charleston, South Carolina, January 17.
Richard Bentley, Director, Australian Asbestos Pty. Limited, Marrickville, Australia, January 19.
Leonard Diener, President, Smith & Kanzler Corporation, Linden, New Jersey, January 23.
Edwin R. Ashmore, Jr., Treasurer, Universal Insulation Company, Philadelphia, Pennsylvania, January 25.
Eric G. Scott, Finance Director, Wunderlich Limited, Sydney, N.S.W., Australia, January 25.
William A. Schreyer, Treasurer, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, January 25.
Herbert S. Hirschfeld, Manager, Standard Asbestos Company, New York City, January 27.
T. I. Read, Director of Research, The Russell Manufacturing Company, Middletown, Connecticut, January 27.
Harold L. Humes, Vice President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, January 31.
Nelson Bain, President, Asbestos Erectors of Canada Limited, Montreal, Canada, February 1.
William G. Neel, Director of Sales, Fibre & Industrial Insulations, The Ruberoid Co., New York City, February 1.
Lt. Col. J. G. Ross, Director, Asbestos Corporation Limited, Thetford Mines, Canada, February 1.
Clarke E. Wayland, Vice President, Western Asbestos Company, San Francisco, California, February 1.
L. H. Saitta, President, Asbestos Corporation of America, Garwood, New Jersey, February 2.
Hermon Bentley, Managing Director, Australian Asbestos Pty. Limited, Marrickville, Australia, February 5.
Arthur I. Rank, President, Universal Insulation Company, Philadelphia, Pennsylvania, February 5.
Ralph L. Bullock, Vice President, Drycor Felt Company, Staffordville, Connecticut, February 8.
George V. Parker, Chairman, British Uralite Limited, Rochester, Kent, England, February 8.
Ronald Henry Dent, Chairman & Managing Director, The Cape Asbestos Company Limited, London, England, February 9.
Roger Hackney, Vice President for Mining and International Divisions & Director, Johns-Manville Corporation, New York City, February 9.
Paul E. Poulin, President, Asbestonos Corporation Limited, St. Lambert, Montreal, Canada, February 9.

WEHRHAHN

Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



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Clark H. Harrison, First Vice President, The Clark Asbestos Company, Cleveland, Ohio, February 10.
Robert M. Stroud, Vice President Sales, Keasbey & Mattison Division, Nicolet Industries, Inc., Ambler, Pennsylvania, February 10.
H. A. Hirschfeld,. President, Standard Asbestos Company, Inc., New York City, February 11.
George Miadinich, President, Atlantic Asbestos Corporation, New York City, February 11.
A. G. Grant, Managing Director, Cape Insulation and Asbestos Products Limited, London, England, February 12.
James D. Moran, Vice President, The Flintkote Company, New York City, February 12.
Herbert L. Levine, President, Asbestos Products Manufacturing Company, Newark, New Jersey, February 13.

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

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BENJAMIN foster COMPANY
DIVISION OF AMCHEM PRODUCTS, INC.

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CANADA

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& Fibres

Sales Representatives
for
Cassiar Asbestos Corporation Limited

E. J. Green, formerly Home Sales Manager af Kismet Limited, has been appointed Sales Manager of IMPERIAL-EASTMAN (U.K.) LIMITED. This new company, owned jointly by The Cape Asbestos Company Limited and Imperial-Eastman Corporation, will market a range of Imperial-Eastman products (fluid transmission components for both flexible and rigid hydraulic systems).

David C. Squier has been named Sales Engineer for ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. He will be in charge of Flintite asbestos-cement pressure pipe, gravity sewer pipe, building sewer pipe and irrigation pipe in the company's Rochester, New York, Sales District.

Mr. Squier is a member of the American Water Works Association, the New York State Water Works Association and the Pennsylvania Water Works Operators Association.

B. A. Wilson has been appointed Director of Engineering of FIBREBOARD PAPER PRODUCTS CORPORATION and will headquarter at 475 Brannan Street, San Francisco, California. Mr. Wilson, who has served as the company's Director of Purchases since 1957, was previously Manufacturing Manager for Fibreboard's Building Materials Division.

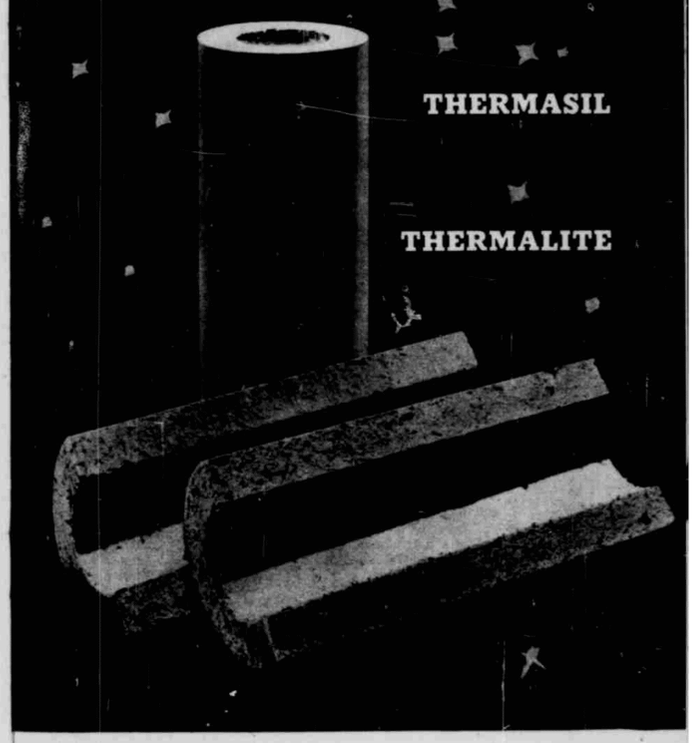
J. G. Gonot has been named Director of Purchases for FIBREBOARD PAPER PRODUCTS CORPORATION and will headquarter at the company's executive offices—475 Brannan Street, San Francisco, California. Mr. Gonot has been a member of Fibreboard's Purchasing Department for the past 16 years and has served as Purchasing Manager, Raw Materials, since 1958.

Leonard L. Hank has been promoted to the position of Senior Vice President—Operations for NATIONAL GYPSUM CO. He joined National Gypsum in 1946 as Manager of the company's Kalamazoo, Michigan, paper mill.

Charles E. Masters was elevated to the post of Senior Vice President—Finance for NATIONAL GYPSUM CO. He joined the company in 1938 as auditor.

National Gypsum's Chairman, Mr. Melvin H. Baker, announced the formation of a new SENIOR COUNCIL composed of President Fred A. Manske, Executive Vice President Melvin F. Cerruti, Mr. Hank and Mr. Masters. According to Mr. Baker, the council ' will interpret policy and coordinate the activities of the organization".

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Small and Parkes Limited, a member of the Cape Asbestos Group of Companies, has announced the following staff changes: G. E. COLSON, Home Sales Manager, is leaving S&P to take up a new appointment as Marketing Director of Tetrosyl (Sales) Limited; A. R. A. JACK, Scottish and North East England Area Manager, becomes Home Sales Manager for S&P in Manchester; I. G. McINTOSH becomes Scottish and North East England Area Manager; and, BRIAN LOMAS, in Home Sales Division, has been appointed Birmingham Depot Manager effective January 1st, 1964.

Raybestos-Manhattan has opened a Southern Region Sales Office in Atlanta, Georgia. A new office building and warehouse has been constructed at 5500 East Ponce de Leon Avenue, Stone Mountain, Georgia, to meet the specific requirements of industry in this area for R/M industrial rubber and mechanical packing products. FRANK McBREARITY, Assistant Regional Manager, and J. M. EHMAN, Atlanta District Manager, will make their headquarters in the new office building.

This new office replaces the regional office formerly situated in Birmingham, Alabama. A Birmingham sales office at 521 North 18th Street will be maintained for the convenience of R/M customers in that area. C. P. SHOOK, JR., Southern Region Manager, will headquarter in the Birmingham sales office.

Cape Asbestos Group—JUSTIN G. MACKEURTAN has been appointed a Director of The Cape Asbestos Company Limited. He will continue in his present executive capacity as Managing Director of Cape Asbestos South Africa (Pty) Limited, Johannesburg, South Africa.

DR. R. GAZE has become Chairman of Cape Insulation & Asbestos Products Limited in succession to R. H. DENT, who retired from the Board. Also, Dr. Gaze has joined the Board of Andersons Insulation Company Limited. Mr. Dent has been re-elected as a Director of Andersons and will serve as Chairman during the absence of A. G. GRANT through ill-health.

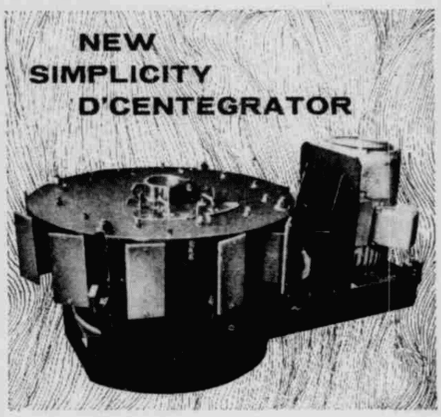
J. L. GALLOWAY became Sales Director of CIAP in succession to A. S. RUNACRES, who retired from the Board but has agreed to act as a Consultant. Mr. Runacres also retired from the Board of Andersons.

L. C. DAWSON became Chairman of Small & Parkes Limited in succession to Mr. Dent, who retired from the Board.

S. BAYLISS SMITH, Mr. Dawson and Dr. Gaze have been appointed Directors of Cape Building Products Limited.

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Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

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CURRENT RANGE OF PRICE

As of January 10, 1964

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.

(As of January 1, 1964)	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
AD grade (asbestos-cement—Canadian Group 4)	260.00
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)	160.00

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Telex: 66560 *A Turner & Newall company*

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ASBESTOS STOCK QUOTATIONS

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

		December 1963		
	Par	Low	High	Last
Advocate Mines Ltd.	1	$6.35	$6.95	$6.50
American Brake Shoe	np	48¼	52	52
Asarco	np	80¼	85⅝	84
Armstrong Cork (Com)	1	100¼	110	110
Armstrong Cork (Pfd)	np	87½	90½	88½
Asbestos Corporation	np	20	21¼	20¼
Philip Carey	10	23¼	24⅛	23¼
Cassiar Asbestos Corporation	np	10¼	10¾	10¼
Certain-teed	1	14⅛	15⅜	14¾
Fibreboard	np	32¾	37⅜	36
Flintkote (Com)	5	22	24⅝	24¼
Flintkote (Pfd)	np	88⅝	90	90
Jefferson Lake Asbestos	1	3¼	4	3½
Johns-Manville	5	47⅛	50	48¾
National Gypsum (Com)	1	44	47¾	44¾
National Gypsum (Pfd)	np	98	102	101
Porter, H. K.	100	98	101	99
Raybestos-Manhattan	np	39	40¾	39
Ruberoid	1	25⅝	27¼	26
Seagrave	2½	8½	10	9⅛
Unarco Industries	5	13¼	15½	13⅝
United Asbestos	1	$2.04	$2.40	$2.13
U. S. Rubber (Com)	5	44	47¾	45⅛
U. S. Rubber (Pfd)	100	163	170	164¾

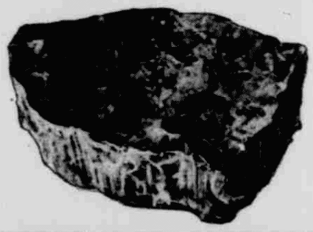
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ASBESTOS PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Process for the Treatment of Asbestos, No. 3,065,114. Granted on November 20, 1962, to W. Burger and H. Lubbe (assigned to Flammer Seifenwerke K.G., Heilbronn, Neckar, Germany). In the treatment of asbestos fiber, yarn, fabric, etc., containing organic substances that are not removed by water washing, e.g., soaps or synthetic detergents used in beneficiating the crude fiber, the asbestos fiber, yarn, or other material is contacted at optimum temperature with a solution of water glass, sodium metasilicate, an alkali metal phosphate, or similar compound, and then washed with water to remove the objectionable soap or detergent.

Calking and Sealing Composition Containing Elastomeric Polymers of Acrylic Acid Esters, No. 3,067,154. Granted on December 4, 1962, to G. B. Sterling (assigned to The Dow Chemical Co., Midland, Michigan). A compound for sealing and waterproofing cracks, crevices and joints consists, for example, of asbestos shorts, fibrous talc, clay, bodied linseed oil, petroleum ether, and a soft elastomeric polymer of an acrylic acid ester.

Mold Coating, No. 3,075,847. Granted on January 29, 1963, to D. J. Henry and N. M. Lothridge, Jr. (assigned to General Motors Corporation, Detroit, Michigan). A mixture for coating sand foundry molds used in the casting of aluminum or magnesium alloys consists of 2-20% of hexchlorobenzene and the balance pulverized mica, asbestos fiber, fly ash, talc, or silica flour.

Asbestos Paper Manufacture, No. 3,076,740. Granted on February 5, 1963, to W. F. Reynolds, Jr. and N. T. Woodberry (assigned to American Cyanamid Company, New York City). In a method for facilitating drainage of water during the manufacture of asbestos paper or other water-laid asbestos sheets, an ultra-high molecular weight anionic polymer is added to the squeous slurry of asbestos fiber prior to the sheeting operation.

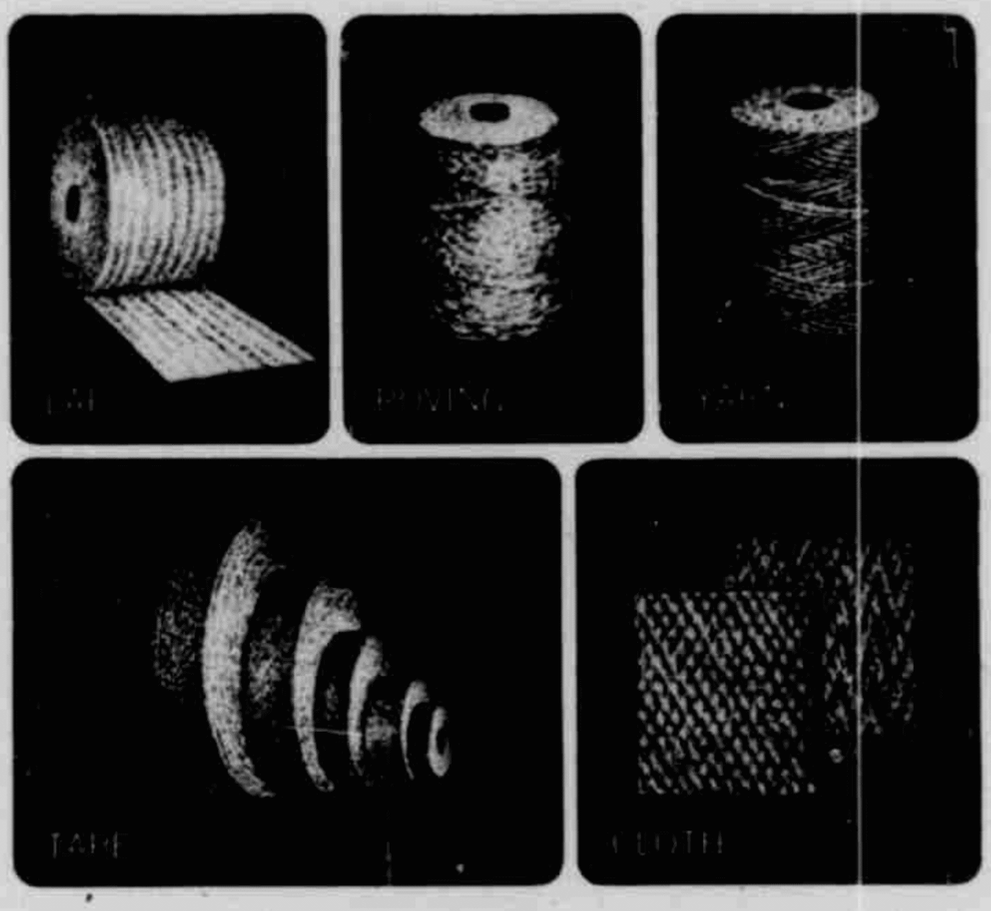
African Associated Mines group—Three changes were announced in the management of asbestos mines in this group: **C. G. Stevens,** present manager of Shabanie Mine, will become manager of Havelock Mine in Swaziland; **L. R. Gordon,** present manager of Havelock Mine, will become manager of Gaths Mine; and, **M. E. West,** present manager of Gaths Mine, will become manager of Shabanie Mine, Rhodesia.

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