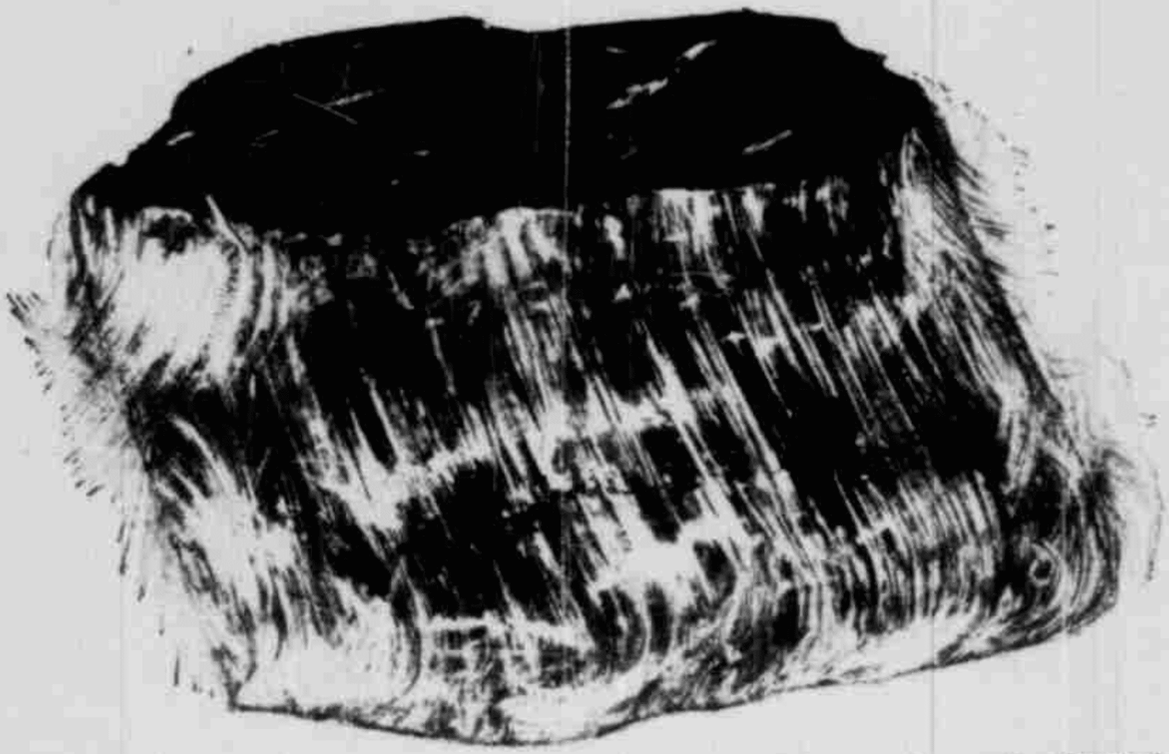
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CONTENTS

	Page
GROUND SUPPORT IN ASBESTOS MINES	2
NICOLET PILOT PLANT	14
BAUER—NEW PRODUCT DEVELOPMENT GROUP	16
W. NOEL REAKES	18
BUILDING	20
AUTOMOBILE SALES	22
MARKET CONDITIONS	30
PRODUCTION	34
IMPORTS & EXPORTS	36
INDUSTRY NEWS	38
ASBESTOS PRICES	44

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GROUND SUPPORT IN ASBESTOS MINES

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

(Mr. Sinclair is Consulting Engineer to Puttens Asbestos Corporation Limited, Johannesburg, London & Salisbury.)

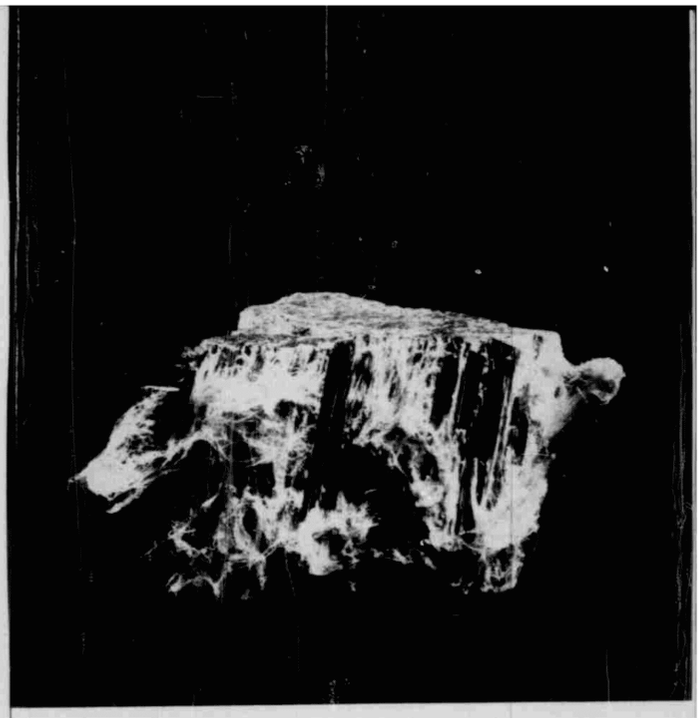
In a previous article concerning efficiency in mining operations*, mention was made of ground support as a factor (amongst others) of some importance. Insofar as operational economy goes, there is obviously little that can be done to cut down expenses in this essential safety measure underground except where it is possible to change or improve the existing practice at a reduced cost per ton mined.

It was suggested, as an example, that modification of a mining system to allow for sorting waste rock might offer a step in this direction. In suitable circumstances, waste rock as packs or stone walls, provides a reasonably low cost form of support if the material is broken and available where needed. Besides this important aspect of sorting waste underground, the practice, when possible, furnishes several avenues of economical operations, such as, lower transport costs and reduction of dilution because of higher grade ore to the mill.

The question of modifying existing mining methods in any undertaking is a moot point, indeed, it is one that can be discountenanced insofar as ground support goes because this question has probably influenced mining methods to a great extent.

Wood, in any form, in asbestos ore is definitely undesirable since even the merest splinter in the fibre proves a serious hazard to manufacturing machinery and, in any case, its presence spoils the valuable fibrous properties of being fireproof and heat resistant. Therefore, timber, in any form, is eschewed because of the possible contamination of the fibre either in mining or milling operations. Consequently, other means of ground support must be considered where hanging-wall control is necessary.

Fortunately, all asbestos orebodies are not structurally unstable but, in most cases, even the modification and improvisation of conventional mining methods can rarely overcome the need for some form of ground support, if not



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for contemporaneous operations, then for supporting open spaces after stoped ground has been withdrawn, as in the case of shrinkage stoping.

It is understandable and natural that safety measures, in all aspects of mining, demand effective ground support and, without timber, every possible alternative means have been tested and employed in asbestos mines, including the use of concrete lining in primary and secondary development openings, especially in block caving systems.

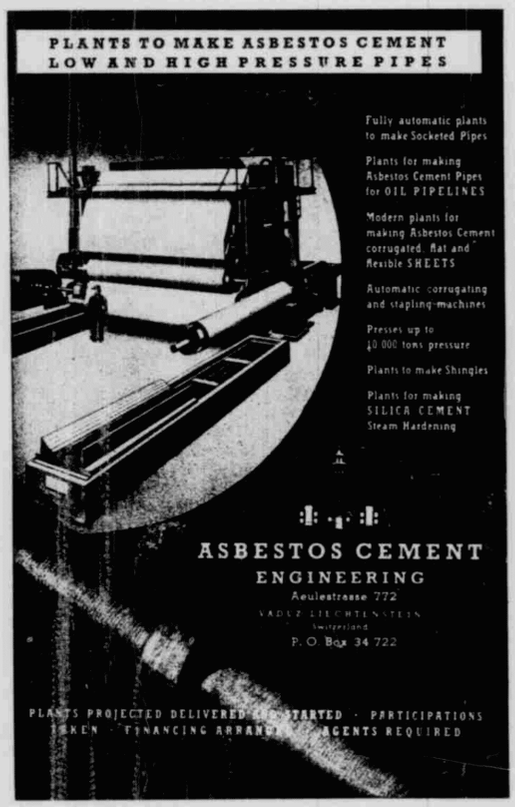
Waste filling, rock walling, steel sets and hydraulic props are customary methods used according to petrographical and structural conditions and the mining system employed. In some cases, temporary packs used in support of ore pillars, (to allow for their ultimate withdrawal) are employed. Hydraulic sand-filling is one of the most effective and economical techniques as a wholly replacement form of support in worked out areas, especially if an adequate supply of sand or tailings is available.

The costly factor in all these different methods is that apart from the normal and accepted consideration of the rock structure which they are designed to support, they are responsible for a modified mining system which is not always the best in the circumstances. In other words, a mining method is influenced more by the question of the control of the hanging wall than by the shape, form or inclination of the orebody and the most efficient means of attack.

An innovation in asbestos mining is the adaptation of roof bolting in haulage ways and other openings not directly connected with caving methods. This method of wall control is such that, in suitable circumstances, it can be effectively applied in most mining systems, either wholly or in part, a fact that eliminates the question of modifying the one to suit the other.

Although relatively new to asbestos mining, roof or rock bolting is being steadily introduced with results that are definitely removing any doubt about its efficacy even in the mind of the most sceptical miner.

The outstanding advantages of roof bolting is that this mode of support (notwithstanding its apparent high initial cost) is more economical indirectly than most other systems. The obvious saving is the cost of materials, the



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handling thereof and transport charges. Time is saved in placing the bolts in position and the reduced size of excavations in tunnels and shafts represents a saving of about 30% as compared with the space necessary for other forms of support.

The principle of roof bolting practice based on several theories ranging round such terms as beam-building, suspension and rock reinforcement, describes generally that the rock bolts simply serve to reinforce the natural roof beam extant in the rock structure, especially in stratified or horizontally bedded formations. In this way, a reinforced beam is developed which is strong enough to support its own weight plus any pressure from above. A significant point is that, pragmatically, roof bolts are not really ground supports (in the sense that steel or concrete are), instead, they simply serve to reinforce the natural roof beam. In these circumstances, it will be seen that, in actual practice, much depends on the rock structure and local ground conditions; in addition, the geological and physical composition of the formation and the possible change in hanging wall stress and regional pressure that may occur later, all have a vital bearing on the question.

It is not only the heterogeneity of the rock structure that influences the means and application of the bolts to secure safe and effective results, but the size of the excavation, depending on mining methods and the proximity of blasting operations.

In their theoretical action, roof bolts pre-stress the rock formation and, in this way, prevent the failure or even the settlement that conventional supports are expected to hold up. Therefore, it is obvious that their application is useless after the rock structure has failed, as may be indicated by sag or settlement. Consequently roof bolts, to be effectively employed, must be installed as quickly as possible after an opening is excavated. Prompt installation is aimed at controlling strata movement entirely by supporting the natural rock beam prior to its normal settlement.

Calculations regarding specifications as to the diameter and length of roof bolts and the type recommended for any particular job depend entirely on the factors already out-

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lined, that is, rock structure and class of openings. In some cases recommended specifications may be accepted from proved practice under like conditions, otherwise tests must be carried out to determine the safe and effective limitations under normal or average local conditions.

Besides the above conditions, the spacing of bolts and the span between rows, to give effective support, should be decided upon by test. Full cognizance must be taken of the inclination of the rock strata, if any, for in a hard stratified formation short bolts may be quite as effective as long bolts, and yet, in steeply inclined beds, there is always a possibility of a shearing action occasioned by rock movement.

Bolts in different conditions vary in length from two to eight feet, although lengths from five to six feet appear to be more commonly used. The diameter of bolts ranges from $\frac{5}{8}$ inches to $1\frac{1}{2}$ inches. However, one inch is an average, although there is a trend today to use lighter (smaller diameter) bolts made of alloy steel of high strength. Bolt washers appear to be standardized in either of two sizes, one, six by six inches and $\frac{3}{8}$" thick, and the other, 4" by 4" square and $\frac{3}{8}$" thick. In some instances, where local scaling of rock is prevalent, lengths of channel iron are bolted from one to another either as "caps" across a drive or as "runners" along the length of the drive. In wide excavations or stopes, common practice now employs heavy gauge wire mesh screening or heavy steel expanded metal, which is bolted across the space between rows of bolts. Similarly, this practice has been successfully used to support the hanging wall in stopes while ore pillars have been reclaimed.

It is advisable in work of this kind, however, that convergence measurements and micro-seismic records are necessary to ensure safety. In some conditions, further assurance in the technique of pillar reclamation in wide open spaces is that studies in applied research and rock mechanics should be undertaken.

This system of screen bolting has also been successfully applied in shafts in lieu of conventional sets and lagging.

The locking principle of a bolt is designed in two main

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types. The first of these, and the one most commonly used, is the slit rod and wedge type that consists essentially of a bolt having a six inch by 1/16 inch slit in the top end into which a wedge is driven as the bolt is screwed up into the hole. In the second type known as the expansion shell type, the top end of the bolt is threaded (as well as the bottom end) and on insertion into the hole, screwed up into an expanding head which is caused to grip the rock sides of the hole. On the lower end all bolts are threaded from five to six inches to allow the washers to be bolted on.

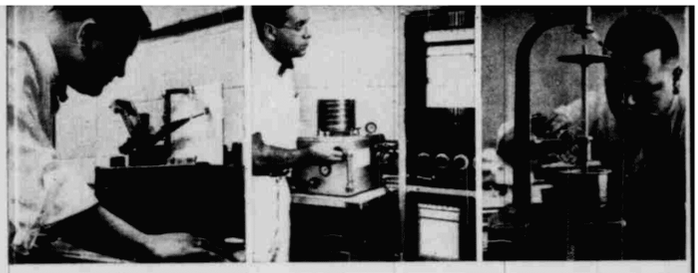
Where the structural characteristics of the rock formation are of a homogeneous nature, a fixed plan and layout for placing bolts in regular positions may be admissable, but in cases of varying rock conditions, this is to be avoided and bolting should be carried out on a plan determined by experience or tests.

Holes are drilled by any convenient type of drill using tungsten-carbide bits of a suitable diameter. These bits are recommended because they are more likely to maintain diameter, to ensure positive anchorage of the bolt. A fixed length of hole must be adhered to according to the length of the bolts.

The installation of a bolt is carried out by placing the wedge only just in the slot and then pushing the bolt into the hole after which it is pounded up to the limit by means of a drill machine in which a dolly in the chuck fits on the threaded end of the bolt. The washer is then put in position and bolted on to fit as close as possible to the rock surface, and the nut tightened to secure the required tension which, in different circumstances may vary from a few hundred pounds to several thousand depending on the rock structure. The elastic limit of bolts is roughly about twenty thousand pounds and this still allows a margin for a factor of safety.

Certain torque measuring devices permit the calculation of the pull (in pounds) that is being created by the bolt as the nut is tightened. Approximately one foot pound of torque produces about forty pounds of load on the bolt.

Whenever possible, bolt holes are drilled at right angles to the rock face to ensure an even pressure of the washer against the rock, so that the nut also bears



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evenly against the washer. This is an important aspect where holes are placed in fan- or ring-like form around the perimeter of a drive or haulage way. The lowest of six or eight holes should be placed about hip height in the drive according to whether there is side pressure or not.

Another important point in roof bolting is to check the installation procedure from time to time to determine whether anchorage has stabilized the rock. This is evident by taking occasional readings with a torque wrench, to see whether there is any change in the load on the bolt. A compression pad can also be used for such tests and, incidentally, these provide a means for determining the best combination of bolting materials and rock structure for optimum initial anchorage.

The extensive and varied means of carrying out checks on installations and the initial testing of anchorage effectiveness, plus the determination of the compatibility of the assembly, all combine to ensure a guarantee of the safety of the system. This naturally presupposes that adequate care is taken in the initial application under varying structural conditions.

Adaptation of rock bolting has not only proved its effectiveness as a means of hanging wall control but also that it provides many advantages over other means and is generally more economical.

*"Operational Efficiency As A Cost Counter", by the author, April 1964 ASBESTOS".

UNITED ASBESTOS—Mine performance and shipments for United Asbestos Corporation Limited during 1964 were at an all-time high, reflecting a strengthening in demand chiefly in asbestos-cement fibres. Sales of 115,324 tons of fibres during 1964 show an increase of 28.5% over 1963. The joint venture operation with *Lake Asbestos of Quebec Limited* resulted in a profit for distribution as per agreement of $2,680,700 as compared with $2,336,300 in the previous year. Mining operations, under the direct supervision of Asarco, are expanding on the newly-developed ore necessitating a heavy stripping program to enlarge the limits of the open pit.

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Timing is the secret of successful product development, according to Dr. Roger Sanftner, Vice President—Development at Nicolet Industries, Inc., Florham Park, New Jersey, producer of inorganic and asbestos papers. "Literally any product need can be satisfied through development, given sufficient latitude in which to reach a solution. But it is the ability to react to a potential customer's requirements, when time is of the essence, that the real test comes. This is particularly true for the manufacturer of a specialty paper product, such as Nicolet. For this reason we employ a pilot plant paper making facility as a matter of routine in following up customer requests. It has saved us countless man hours, false starts and consequently time."

The pilot plant paper making facility represents an investment of approximately $100,000. It is highly flexible, both in stock preparation and in paper web formation. The complete line of Nicolet products can be produced on the pilot plant machine, and experimentation into newer and more exotic binder and fiber combinations can be investigated. As a result, product configuration and integrity can be proven out on a small unit basis. At the same time, an understanding of processibility can be gained.

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An important by-product of this approach is the more rapid development by customers of their products. In this case, they can key into Nicolet's efforts and adjust their sights on a complimentary basis, both with respect to the product and time. The end result of such an approach is the actual buying of time.

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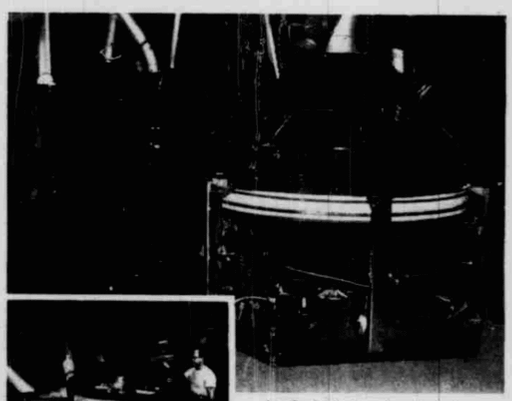
Establishment of a newly-created Product Development Group has been announced by The Bauer Bros. Co., Springfield, Ohio, and Brantford, Ontario, Canada. Bauer manufactures equipment and systems for the major processing industries, including pulp and paper, board, chemical, food, vegetable oil milling, and non-metallic minerals.

The new group will work closely with the company's sales, engineering, research and manufacturing divisions to provide improved company-customer liaison on application of Bauer equipment and systems in United States, Canada and overseas.

According to Bauer management, formation of the Product Development Department is linked directly with the company's increasing activities in a number of major processing industries. Although it has been functioning for some time, the department is still considered to be in the embryonic stages and expansions in both manpower and range of operations are forecast for the near future.

The new group will be under the direction of Anton J. Horstman, Vice President—Product Development. In addition to Mr. Horstman, the nucleus of the group at present consists of Theron (Ted) M. Cole, newly appointed Product Development Engineer, John S. Leyse and Edward L. Farrell.

THE EXPLORATION AND VALUATION OF SMALL ASBESTOS MINES, by N. M. Airey, is a very interesting and comprehensive article which appeared on pages 41 through 44 of the April 1965 issue of the Chamber of Mines Journal. These notes are intended to assist a prospector in the investigation of an asbestos occurrence. The milling test plant will, no doubt, be out of his reach, but the Rhodesia Government Metallurgical Laboratory has a test impactor, a Quebec Standard Test Box and a Ro-tap machine, so that some of the rough testing methods described are available to the prospector or smallworker. For access to larger test plants, the prospector would have to rely on an asbestos mining company.



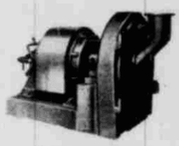


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W. Noel Reakes — 40 Years Service

W. Noel Reakes, Technical Service Manager, Asbestos Fibre Department, National Gypsum Company (National Asbestos Mines Limited) completed forty years service in the asbestos fibre industry on May 7th, 1965.

Mr. Reakes joined Johns-Manville at Asbestos, Quebec, Canada, in 1925 as Service and Employment Department Manager, was transferred a year later to the asbestos milling operations as Assistant Mill Superintendent and in 1928 was assigned to the Engineering Department in charge of experimental and regrading milling. In 1930 he organized the Original Fibre Development Department which experienced many stages of expansion in sampling and testing of mill products, mill flow lines, development of Group 7 asbestos shorts, pilot mill facilities, special fibres and development of fibres from the United States and Canada for special uses during World War II.

In 1940 Mr. Reakes proposed the use of and had the first Bauer McNett Classifier installed in the Asbestos Industry in Canada.

In 1947 he was appointed District Engineer of the Asbestos Fibre Sales Division as Assistant to the Sales and Merchandising Manager with headquarters in Montreal, and later at Asbestos, Quebec, and was responsible for the technical aspect of fibre sales, training of sales personnel and liaison with fibre customers.

Mr. Reakes joined National Gypsum in 1958 when its asbestos mining and milling operations commenced.

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Winchester, Mass.	W. D. Egleston Company, Inc.

BUILDING—F. W. Dodge Company, a division of McGraw-Hill, Inc., reported that total construction contract value for APRIL 1965 was $4,770,053,000 to lead last April's amount by 9%. This, when added to the amounts reported so far in 1965, brings the cumulative contract total ahead of the first 4 months of 1964. April's very strong surge in new contracts indicates that construction is soon to become a source of increasing strength in spending. At $2,138,634,000, April's total residential value was the highest amount ever recorded for a single month and a 7% increase over the April 1964 total. This lead shows gains in the contract value of apartments, single family housing and nonhousekeeping buildings. Nonresidential building contract value was $1,545,872,000, leading the amount for April 1964 by 9%. Commercial building contracts supplied most of the upward thrust. Manufacturing building contracts continued to run ahead of year-ago value. Educational building contracts were just about even with last April's total. Hospitals, public buildings and religious buildings showed decline. The biggest percentage gain over last April's contract value, 16%, was shown by nonbuilding construction, which amounted to $1,085,547,000. Contracts for streets and highways rose by one-third, utilities construction ran nearly 20% behind and large gains were shown for dams, reservoirs, and river and harbor development. For the first 4 months of 1965, total construction contract value amounted to $15,276,145,000, 1% greater than in the comparable 1964 period.

R/M GREY-ROCK BRAKE LINING—New heavy-duty woven brake lining, developed by Grey-Rock for a variety of industrial applications, combines a brass reinforced backing for added strength and a non-metallic surface for high frictional performance. It is especially recommended for external contracting band applications where high co-efficients of friction are required. The new lining, designated *No. 635-D*, has a coefficient of friction of 0.52, was originally designed for oil well drilling rigs and similar equipment, and was supplied as semi-rigid segments. It is now available in 25-foot rolls in thicknesses of ½, ⅝ and ¾ inches, and in widths ranging from 4 to 8 inches.



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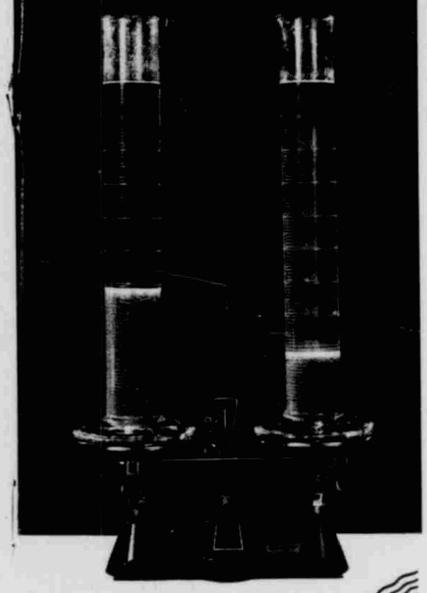
AUTOMOBILE SALES — The Automobile Manufacturers Association, Detroit, Michigan, has issued the following statistics of motor vehicle factory sales from plants in the United States for MARCH 1965: total 1,124,603 (passenger cars 957,494; trucks and buses 167,109). The total for March 1964 was 860,545. The figure for the first three months of 1965 was 2,967,303 compared with 2,534,283 for the same period 1964.

1965 AUTOMOBILE FACTS AND FIGURES is now available. This is the 44th edition of the statistical reference booklet published annually by the Automobile Manufacturers Association and can be obtained by writing A.M.A. at 320 New Center Building, Detroit, Michigan 48202.

ARMSTRONG CORK—Approximately 120 management representatives from some 70 members of Armstrong Cork Company's Approved Gasket Fabricators organization will attend the second national Fabricators meeting at the company's headquarters in Lancaster, Pennsylvania, June 16-17, 1965. This organization is a network of independent fabricators of Armstrong resilient gasket and friction materials. The meeting will include formal business sessions and informal group seminar discussions covering new products and technincal developments. It is under the direction of R. L. Collister, Marketing Manager for Gasket and Friction Materials.

NATIONAL GYPSUM produces and sells more than 350 building products in 11 related lines of construction materials: gypsum, portland cement, ceramic tile, asbestos-cement, lime, paint, fibre insulation board, metal lath and accessories, paper, acoustical and Tectum roof decks and panels. The company's products are marketed under the principal trade names of Gold Bond, American Olean, Huron and Allentown.

Asbestos Shorts
We think new about bulking



Whatever the absorbency you need in asbestos shorts... high, medium, low... you get it from Gold Bond scaled to your specifications.

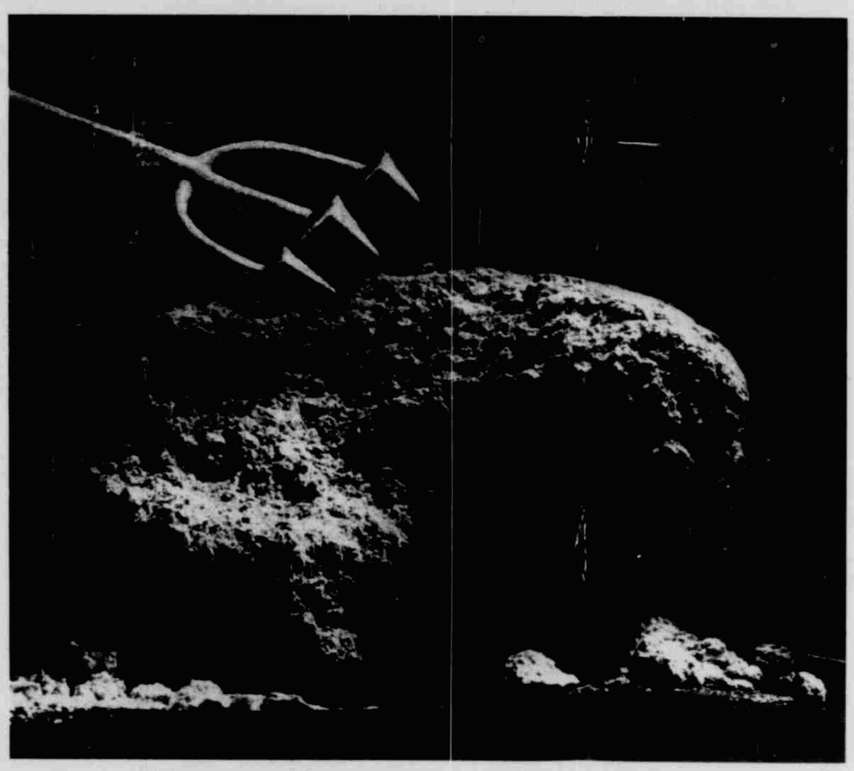
We have proven processing facilities for any manufacturer's requirements. And a skilled quality-control team, familiar with the problems of asbestos production and end-manufacturing, is available for consultation. Thinking about asbestos fibres? Think new with Gold Bond®. Check first with National Gypsum Company, Buffalo, N. Y. 14225, or in Canada with National Asbestos Mines Ltd., Thetford Mines, P. Q.

Gold Bond
ASBESTOS FIBRES

One of many fine products that come from 40 years of thinking new

NGC
NATIONAL GYPSUM COMPANY

How the devil's asbestos cuts floor tile cost.



High in the Diablo Mountains, the new Johns-Manville Coalinga mill produces a very special grade of asbestos. Diablo, of course, is Spanish for devil. And the unusual asbestos mined in this central California range is proof some devils are really good guys.

Coalinga fibers are short and strong. Which makes them ideally suited to floor tile use. And they are exceptionally bright and clean. Which enables tile manufacturers to cut pigment cost substantially.

Still more proof the Diablos are good guys: this range promises an almost unlimited supply of short, bright, floor-tile-perfect asbestos fiber. Utilizing the most modern production methods, the J-M Coalinga mill assures their usefulness to our friends in the flooring industry.

For asbestos fiber literature, write Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Research and Engineering Center, Manville, N.J.

JM

Johns-Manville

"ASBESTOS" — June 1965

Published by AsbestosClaims.Law
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ASTM 1964 PROCEEDINGS. Volume 64, the official record of the proceedings of the American Society for Testing and Materials for the entire year 1964, is now available. This 1200-page book records the technical accomplishments of the Society, including a large volume of reports on significant developments in the ASTM technical committees and 44 authoritative technical papers, together with discussions, which were offered to the Society during the year and accepted for publication in the "Proceedings". Among the areas covered in the technical papers are fatigue, metals, concrete, soils, road and paving materials, and general testing.

ASTM continues to expand its publications program through the issuance of a steadily increasing number of Special Technical Publications; however, the "Proceedings" remains the repository of factual information and a record of the Society's work.

ASTM COMMITTEE C-17 (Asbestos-Cement Products)—In the subcommittee works: proposed specification for asbestos-cement bulkhead material; task group appointed to initiate specification for foam core panelboard; establishment of cooperative test program with Bureau of Reclamation on sulfate environment studies; study of relation with salt water conversion program; cooperative study to evaluate Canadian color stability test method with ten laboratories cooperating; consideration of immersion type of test for chemical stability; study of effect of salt water on bulkhead materials made from corrugated asbestos-cement sheets; and, study by task group of flexural strength of pipe. Ready for committee approval: revision of C220 raising water absorption limit of 25%; changing moisture absorption limits of C223 from 25 to 30% and establishing requirements of minimum strength in weakest plane; revision of C500T changing loading rate for flexural proof test; and, revision of C296T to clarify class designation with respect to service conditions, removal of reference to 13-foot lengths on sampling for crushing test, and removal of a marking requirement.

ARIZONA ASBESTOS

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JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA



Producers of Soft, Low Iron, White Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

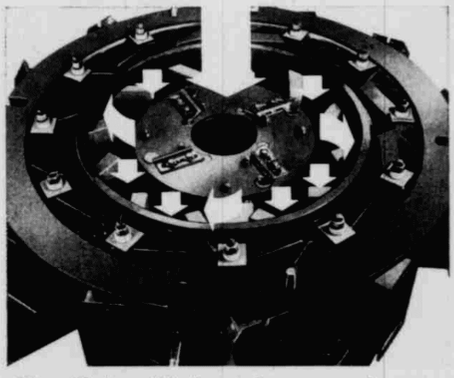
BENJAMIN FOSTER CO., a division of Amchem Products, applied a number of its adhesives, coatings and sealants with the thermal insulation in the construction of the Harris County Domed Stadium at Houston, Texas. All Foster products utilized met the National, State and local Fire Code requirements, affording a fire-safe application and accomplishing the vapor barrier requirements necessary to this type of application. Among the Foster products used were: Tite-Fit Coating 30-35, as a fire resistive vapor seal coating; Fire-Resistive Mastic 60-60, on equipment to accomplish a vapor barrier and provide a tough resilient finish to resist mechanical abuse; Fire Resistive Installation Adhesive 81-20, to attach the insulation to metal duct, seal laps of fire-resistive vapor barrier jacketing and to adhere metal corner beads to insulation; and, Fire Resistive Lagging Adhesive 81-42, to attach eight-ounce canvas to the jacketed surface after which it was applied in a liberal brush coat to completely seal the canvas and add to the fire-resistivity of the system.

Baldwin-Ehret-Hill, Inc. was the insulation-contractor for the stadium.

1963 CENSUS REPORT/ASBESTOS PRODUCTS—This report is one of a series presenting preliminary information on industries and products covered in the 1963 Census of Manufactures. The data will be superseded in a final report which, in turn, will be included in Volume II, Industry Statistics, 1963 Census of Manufactures.

The Asbestos Products Industry includes establishments engaged primarily in the manufacture of asbestos textiles, asbestos friction materials, vinyl asbestos floor tile and other commodities composed wholly or chiefly of asbestos, except asbestos paper (Industry 2661) and steam and other packing, pipe and boiler covering and gaskets (Industry 3293).

The report of "Asbestos Products" MC63(P)-32E-2 is for sale by the Bureau of the Census, Washington, D.C. 20233 and U. S. Department of Commerce Field Offices (10¢ each).



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Simplicity's D'centegrator fibrizes so thoroughly that the longer fibres are not "dirtied". The break-up action is pictured above schematically (our asbestos fibrizers actually have 12 bars). On-the-job performance also indicates a higher recovery rate and lower percent of fines. Both lower initial and maintenance cost make this 60 t.p.h. unit (2" cubical feed) an outstanding producer. Write or call about a test.



Model 24 Asbestos D'centegrator

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues very good. Despite a slight easing in automobile sales and production, business statistics for the past few weeks have continued to hold steady or show slight improvement. The Government's proposal to cut or eliminate certain excise taxes was received favorably and should, if adopted, give another boost to the economy. Surveys indicate that consumers' confidence in the future is high. People expect their incomes to increase and are planning major expenditures accordingly. The stock market has shown some downward movement lately but it is expected that second quarter earnings of most companies will be quite good and there is nothing to indicate that a serious readjustment is about to occur.

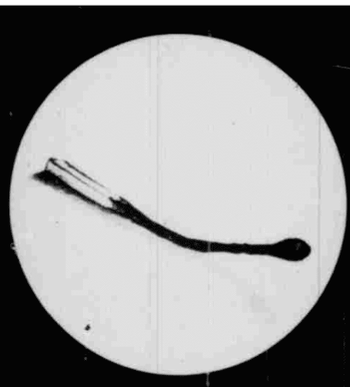
ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during April 1965 totalled 105,592 tons, a reduction of 8,139 tons or appriximately 7% from the same period last year. Year to date shipments at 294,615 tons are running 29,079 tons or roughly 9% below those of 1964.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Asbestos textile shipments for the first quarter of 1965 were maintained at approximately the same high level attained in 1964. Current shipments are continuing at this high rate. Sales for 1965 are expected to equal the volume for 1964.

Asbestos Brake Lining. The present market situation is good and this condition is expected to remain the same during the coming months.



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Longbranch, 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

FLINTKOTE®

High Pressure Insulation. The market at present for this material is very stable and should remain so for the balance of the year.

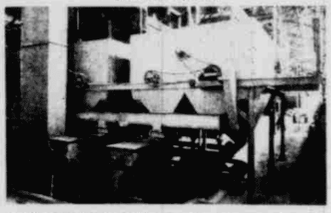
Asbestos Filter Fibre. The market for Arizona filter fibre remains strong and a high demand is anticipated in July during the season for the beet sugar industry. Arizona mines are now meeting demands of the filter industry. Considerable research work is going on to find new uses for Arizona premium fibres.

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

CIAP EXHIBIT — Cape Insulation and Asbestos Products Limited is taking part in the Interplas 1965 Exhibition, National Hall, Olympia, England, at Stand BB533. The company is demonstrating NORAMITE crocidolite and amosite asbestos fibres in all the forms applicable in the reinforced plastics industry. Although the use of asbestos fibre as a plastics reinforcement is well established, especially in ablative applications in the rocketry field, the forms previously available were severely restricted. Now the outstanding properties of crocidolite fibres, having both tensile strength and an E Modulus two and a half times that of glass fibres, are available to the designer and the moulder with all the consequent advantages. Full engineering and design data for a very large variety of reinforced compositions incorporating NORAMITE are given in CIAP's latest document on NORAMITE products. The forms in which the fibre will be marketed, under the NORAMITE name, are mat, tape for winding, polyester base dough moulding compound, epoxy based flock, spraying fibres, crocidolite roving, and asbestos paper.

NOT RESISTANT TO CHANGE, by Joseph V. Sherman, Consulting Economist, is a well-written and interesting article on new markets opening up for asbestos. It appeared in the May 24, 1965, issue of Barron's.

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Modern HAZEMAG Impact Crushers
(Andreas System)



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P.O.B. 9653, Johannesburg

PRODUCTION

Canada—According to the Dominion Bureau of Statistics, Ottawa, production of asbestos in Canada during FEBRUARY 1965 amounted to 72,385 tons compared to 70,554 in February 1964. Total for the first two months of 1965 was 130,995 compared to 148,441 for the same period in 1964.

Cyprus—According to the Ministry of Commerce & Industry, Nicosia, there was no production of asbestos reported for the 1ST QUARTER of 1965.

Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos for MARCH 1965: Production 13,620.30 short tons, valued at £648,103.07.02d.

Republic of South Africa—The Department of Mines has issued its Quarterly Information Circular containing the following statistics on asbestos: 4TH QUARTER 1964—Production totalled 55,185 short tons (Amosite—18,956, Chrysotile—7,901, Cape Blue—25,991, Transvaal Blue—2,337, Tremolite—none); YEAR 1964—Production totalled 215,592 short tons (Amosite—77,276, Chrysotile—35,921, Cape Blue—92,091, Transvaal Blue—10,304, Tremolite—none).

The Chamber of Mines of Rhodesia has issued its Annual Report for the year 1964, which contains the following data on asbestos. Despite continued competition from other producing countries, particularly U.S.S.R. and Canada, Rhodesian mines were able to increase output during 1964 and the outlook for 1965 is even better. The production of asbestos during 1964 totalled 153,451 tons, valued at £6.848-million. The 1963 figures were 142,255 tons and £5.937-million. However, the 1964 production and value was still well below the figures achieved during 1961 and 1962.

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of yarn, cloth, belts, and tapes metallic and non-metallic WANTED continuously in each quantity. Replies to Box No. 4-BEC-GH, c/o "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107, U.S.A.

Advocate First Quarter 1965 — Asbestos fibre production totalled 12,882 tons during the first three months of 1965 for Advocate Mines Limited, an increase of 27% over the comparable 1964 period. Ore crushed during the period totalled 488,439 tons compared to 438,118 tons. The mine shipped 8,175 tons in the quarter, the first time since operations began that shipments have been made from Baie Verte, Newfoundland, for this time of year. (The Northern Miner)

Griqualand Exploration and Finance Co. Ltd. found it necessary to increase the production of blue asbestos in the latter half of 1964, to meet demand. Sales were proceeding satisfactorily and the outlook was encouraging. Therefore, it was decided to open a new blue asbestos mine on the farm of Strelley, in the Kuruman area, South Africa, which would take care of any additional demand, and replace existing units nearing the end of their economic lives. A 40% interest in a small Rhodesian company producing chrysotile asbestos has been acquired and a new company, Saamwerk Asbestos Limited, was formed to obtain a mining lease in an area currently under survey. Griqualand Exploration, a London-based company and controlled by General Mining and Finance Corporation, is to have at least an 80% interest in Saamwerk.



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IMPORTS & EXPORTS

Exports From U.S.A.

(Figures by Bureau of the Census) DECEMBER 1964

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Italy	13	Canada	15	Belgium	28
Japan	8	India	901	Columbia	270
Mexico	60	Japan	764	Japan	782
Other Ctys.	4	Mexico	103	Korean Rep.	34
	85	Netherlands	102	Mexico	58
			1,885	Netherlands	1,044
				Other Ctys.	2
					2,218

Total Unmanufactured Asbestos..4,188 Valued at..$436,864

Manufactured Asbestos Goods:		Production	Value
Cement & Pipe Covering	Lbs.	1,374,483	$ 257,492
Textiles & Yarn	Lbs.	172,860	114,239
Packing	Lbs.	180,348	303,230
Clutch Facing	No.	258,031	176,846
Brake Lining (Mld. & S.Mld.)	Lin. Ft.	106,744	34,695
Brake Lining, Other	Lbs.	464,904	387,608
Construction Materials	Lbs.	2,162,791	292,949
Asbestos Manufactures—Other		..	123,574
			$1,690,633

Exports From Republic of South Africa

(Quarterly Information Report—Dept. of Mines)

	4TH QUARTER 1964		YEAR 1964	
	S.Tons	Value	S.Tons	Value
Amosite	22,591	R2,100,401	81,763	R 7,761,940
Chrysotile	7,025	467,022	28,573	2,103,864
Cape Blue	28,341	3,696,422	97,135	12,770,140
Tvl Blue	2,102	231,593	10,709	1,235,129
Tremolite	..	..	..	..
	60,059	R6,495,438	218,180	R23,871,073

Exports From Canada

(Published by Dominion Bureau of Statistics) JANUARY 1965

Short Tons

	Crude	Milled	Shorts
United States	5	14,741	32,196
United Kingdom	..	3,703	5,116
South America	..	2,817	1,598
Central America & Mexico	..	1,800	180
Europe	6	12,534	9,470
Japan	..	2,388	7,693
Other Countries	..	5,486	1,436
	11	43,469	57,689

Total Unmanufactured Asbestos—101,169 Valued at—$11,622,892

Asbestos Brake Linings & Facings	$ 65,468
Asbestos-Cement Building Materials	32,549
Asbestos Products, Other	8,165
	$ 106,182

FEBRUARY 1965

Short Tons

	Crude	Milled	Shorts
United States	4	14,522	31,778
United Kingdom	..	1,075	1,629
South America	..	376	102
Central America & Mexico	..	735	130
Europe	..	6,354	1,138
Japan	..	1,445	674
Other Countries	..	3,750	66
	4	28,257	35,517

Total Unmanufactured Asbestos—63,778 Valued at—$7,611,622

Asbestos Brake Linings & Facings	$ 31,869
Asbestos-Cement Building Materials	9,408
Asbestos Products, Other	11,642
	$ 52,919

Cyprus—The Ministry of Commerce & Industry, Nicosia, has issued the following asbestos export statistics for the 1ST QUARTER of 1965, in long tons: January—none; February—421, valued at £20,032; and, March—1,763, valued at £84,146.

Asbestos Magazine, 1965, June 1965
ACL Doc 12578 · Page 20 of 29
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INDUSTRY NEWS

HAPPY BIRTHDAY

Melvin F. Cerruti, Executive Vice President, National Gypsum Company, Buffalo, New York, June 19.

Erwin C. Gutzwiller, Assistant to Senior Vice President—Operations, The Ruberoid Co., New York City, June 20.

E. B. Poulin, Secretary-Treasurer, Asbestonos Corporation Limited, St. Lambert, Montreal, Canada, June 20.

Ladd L. Wilson, Vice President, Nicolet Industries, Inc., Florham Park, New Jersey, June 20.

J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.

C. Branton Wheatley, President, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, June 22.

Malcolm Meyer, President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.

F. Pearson, Managing Director, British Belting & Asbestos Limited, Cleckheaton, Yorkshire, England, June 26.

Edward F. Briggs, Vice President & General Sales Manager, Johns-Manville Corporation, New York City, June 27.

Julien O. Heppes, Vice President & General Manager, Floor Tile Division, The Ruberoid Co., New York City, June 28.

Milton R. Maddux, Director of Purchases, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 28.

I. C. Campbell, Vice-President & Secretary-Treasurer, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, July 3.

Arthur I. Rank, Jr., President & Treasurer, Universal Insulation Company, Philadelphia, Pennsylvania, July 3.

Howard E. Walker, Director of Research, The Flintkote Company, New York City, July 5.

S. David Skinner, Vice President—Engineering, National Gypsum Company, Buffalo, New York, July 6.

C. L. Hoshaw, Manager of Insulation Technical Service & Construction, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 7.

Captain W. A. Janitch, R.E., Vice President, Asbestos Corporation Services Limited, London, England, July 10.

Alvin M. Ehret, Jr., Chairman, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, July 11.

John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Company, Chicago, Illinois, July 13.

Carlo M. Weber, Manager, Careystone Corrugated Department, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 14.

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

RIDGES and numberless
Asbestos-Cement
articles are now...
automatically manufactured
by *machinery* and plants
based on the
ELASTIC AND UNIFORM
HIGH PRESSURE process
Sole producers in the world
ISPRA
PADERNO DUGNANO
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Homogeneous structure.
Most uniform and highest density.
Best water proofness.
High mechanical resistance as well as elasticity and ruggedness.
Minimum of breakage in transport and service.
High frost resistance.
All characteristics never reached until now.
Our information department ready for you.

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Richard S. Juterbock has been appointed to the Research Division of **The Philip Carey Manufacturing Company.** He will report to E. D. Ermenc, Director of Research, on special assignments for the development of major research projects.

Hans T. Pokorny has been appointed to the post of Assistant to Group Manager Central Europe, it was announced by W. E. Lehmann, Vice President, **Johns-Manville International.** Mr. Pokorny was formerly a Construction Engineer at the J-M Research & Engineering Center, Manville, New Jersey.

Hubert F. Allen will relinquish the Chairmanship and vacate his seat on the Board of **Bell's Asbestos and Engineering (Holdings) Limited,** effective June 30th, 1965. **A. J. M. Miller** will be appointed as Chairman in succession.

Surveyer, Nenniger & Chenevert, consulting engineers, Montreal, Canada, have announced the appointment of **J. P. Gourdeau,** Eng., M.Sc., as Manager of Engineering. Mr. Gourdeau joined the firm in 1961 and has served in various capacities, notably as chief engineer of the Municipal Department.

SURVEYER, NENNIGER & CHÊNEVERT

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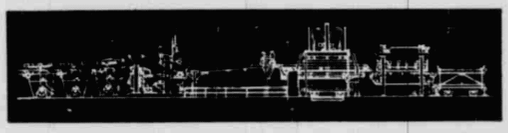
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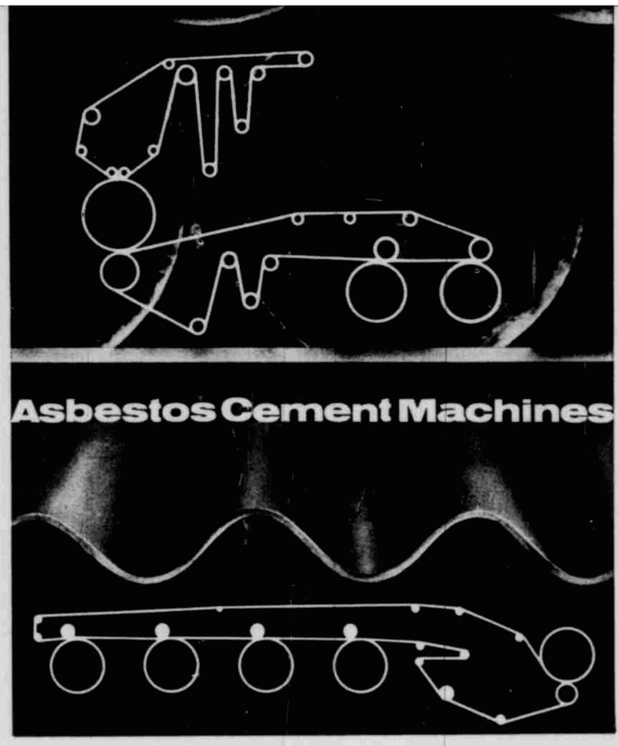
Asbestos Corporation will undertake preliminary preparation at the dock site and work on the road during 1965 for eventual construction of a plant at its **Asbestos Hill** property in the Ungava Bay area, Canada. Real work on the deposit will not get underway until next year.

Asbestos Corporation intends to increase the production facilities of **King-Beaver** asbestos mill by about 30 per cent. The cost of such expansion will be approximately $2,300,000, and work is already underway with a view to completion by October of this year.

Aylmer Mines Limited has resumed diamond drilling early this spring on its second asbestos anomaly—Lot 12, range III in Coleraine Township, Quebec, Canada. 1,400 feet of diamond drilling has been completed to date. Core analysis shows up to 6% of fibre in the 4, 5 and 6 groups with an approximate value of $6.00 per rock ton. A substantial orebody is expected to be turned up on completion of the drilling program in this zone. (The Northern Miner).

H. K. Porter Company — Construction is underway for Porter-Australia's new automotive friction materials plant located in an industrial park 30 miles west of Sydney. The new plant will produce brake linings, clutch facings and other automotive products marketed under the Thermoid tradename. The products will be sold throughout Australia, New Zealand and Southeast Asia to automotive and truck manufacturers for original equipment as well as to distributors in the automotive parts replacement market. Operation of this new plant will make H. K. Porter the first producer of clutch facings in Australia.

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ASBESTOS PRICES

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

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

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

(As of January 1, 1965) Canadian Currency

Group No. 1 (Crude No. 1)	$ ..	$1,410.00
Group No. 2 (Crude No. 2, Run of the Mine Crude, Sundry Crudes)	640.00 to	875.00
Group No. 3 (Spinning Fibre)	345.00 to	565.00
Group No. 4 (Shingle Fibre)	190.00 to	320.00
Group No. 5 (Paper Fibre)	115.00 to	156.00
Group No. 6 (Waste, Stucco or Plaster)	..	95.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

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

(As of January 1, 1965) 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
AY grade (shingle fibre—Canadian Group 5)	120.00

VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(As of January 10, 1965) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 370.00
Group No. 4 (Shingle Fibre)	176.00 to	296.00
Group No. 5 (Paper Fibre)	121 .. to	144.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	88.00
Group No. 7 (Shorts & Floats)	40.50 to	75.00

asbestos

chrysotile, crocidolite and amosite fibres for:

Asbestos-Cement



Friction Materials







Insulation Materials

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Turners Asbestos Fibres Ltd

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Telex: 66560 *A Turner & Newall company*

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David J. Straw has been elected as a Director and Vice-President of **Merit Oil Limited.** He will reside in Australia where he will direct Merit's asbestos and other resource interests. Mr. Straw was formerly Chief Geologist for Canadian Johns-Manville. (The Northern Miner).

Robert W. Jeannette has been appointed District Sales Manager of the newly-established Southeastern district for the Textile Division of **United States Rubber Company.** He will headquarter at the division's sales office in Dalton, Georgia, and will be responsible for sales of all company textile products in North and South Carolina, Tennessee, Georgia, Alabama and Mississippi.

H. K. Porter—The Thermoid Division of H. K. Porter Company, Inc., has announced the following appointments: **D. C. Ahrens**—Automotive Sales Manager, will be responsible for the sales of all Thermoid products in the automotive aftermarket; **R. J. Boyle**—Industrial Sales Field Manager; **R. G. Herbert**—Sales Promotion Manager, will be responsible for promotion of Thermoid products in both the Automotive and Industrial markets; and, **P. P. Percich**—Commodity Manager of Mechanical Rubber Products.

The Polyrez Company, Inc., Woodbury, New Jersey, manufacturer of phenolic resins and cashew products, has announced that **George Brannick** has accepted the appointment as Technical Director with the company. He joined Polyrez in this capacity on June 1st, 1965. Mr. Brannick graduated from Michigan State University as an Organic Chemist and for 25 years has been engaged in polymer chemistry.

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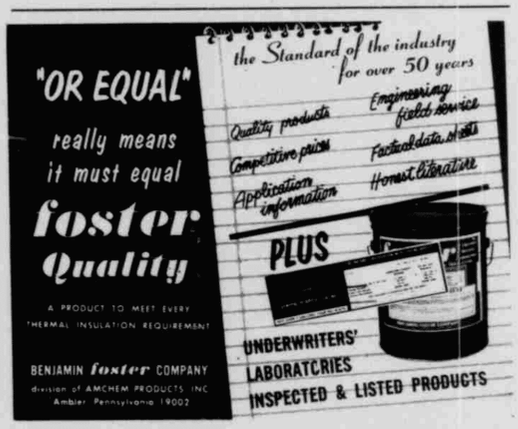
LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials made by B.B.A. In production, as in research, we are in the front of our field. To all intents and purposes, B.B.A. *is* Asbestos.

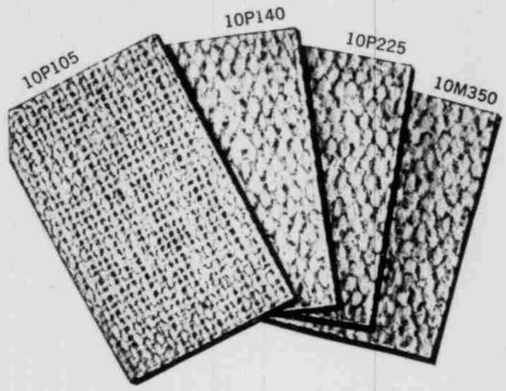
BRITISH BELTING & ASBESTOS LTD
CLECKHEATON, YORKSHIRE, ENGLAND

Cape Asbestos Annual Report 1964—Group sales turnover of The Cape Asbestos Company Limited increased by 11.9% from £18,753,175 to £20,980,142 and net profit before deducting minority interests amounted to £1,146,828 against £937,422 in 1963. The amosite asbestos mines continued working at full pressure and every ounce of available fibre was sold. Blue, or Crocidolite, asbestos mines produced and sold tonnage that was very close to that of 1963, but profit was somewhat less.

Bell's Asbestos and Engineering (Holdings) Limited has submitted its Report and Accounts for the year 1964. Bell's Asbestos and Engineering Limited is one of the two major contributors to this Group's profits and its results for 1964 showed an encouraging improvement over the preceding year. Trading conditions were favorable and the Company achieved a substantial increase in sales, the main contributions coming from asbestos and allied products and from the wide range of valves marketed by the Company.



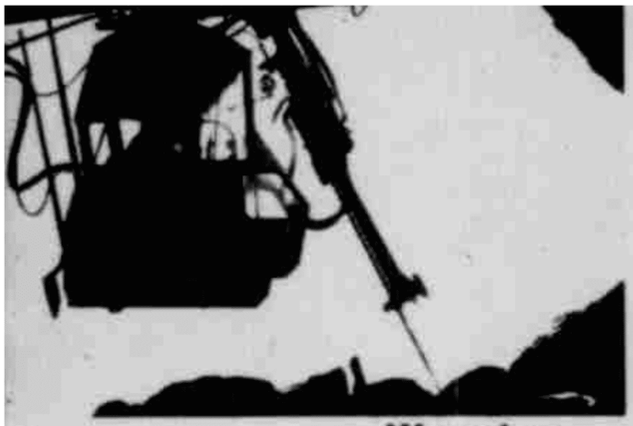
Look to R/M to weave the cloth that cuts the cost of insulating shipboard and steamplant piping



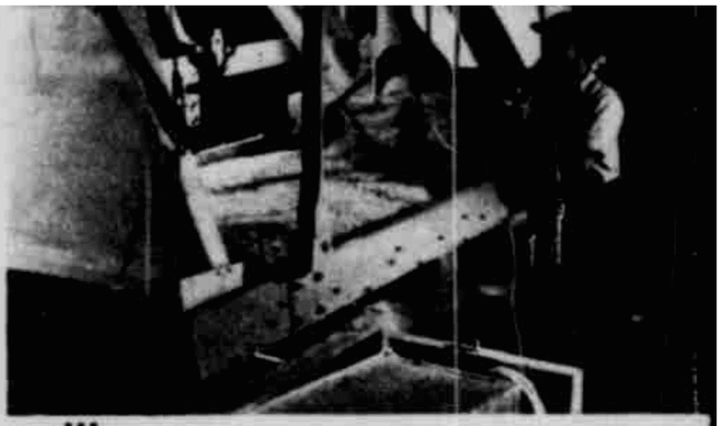
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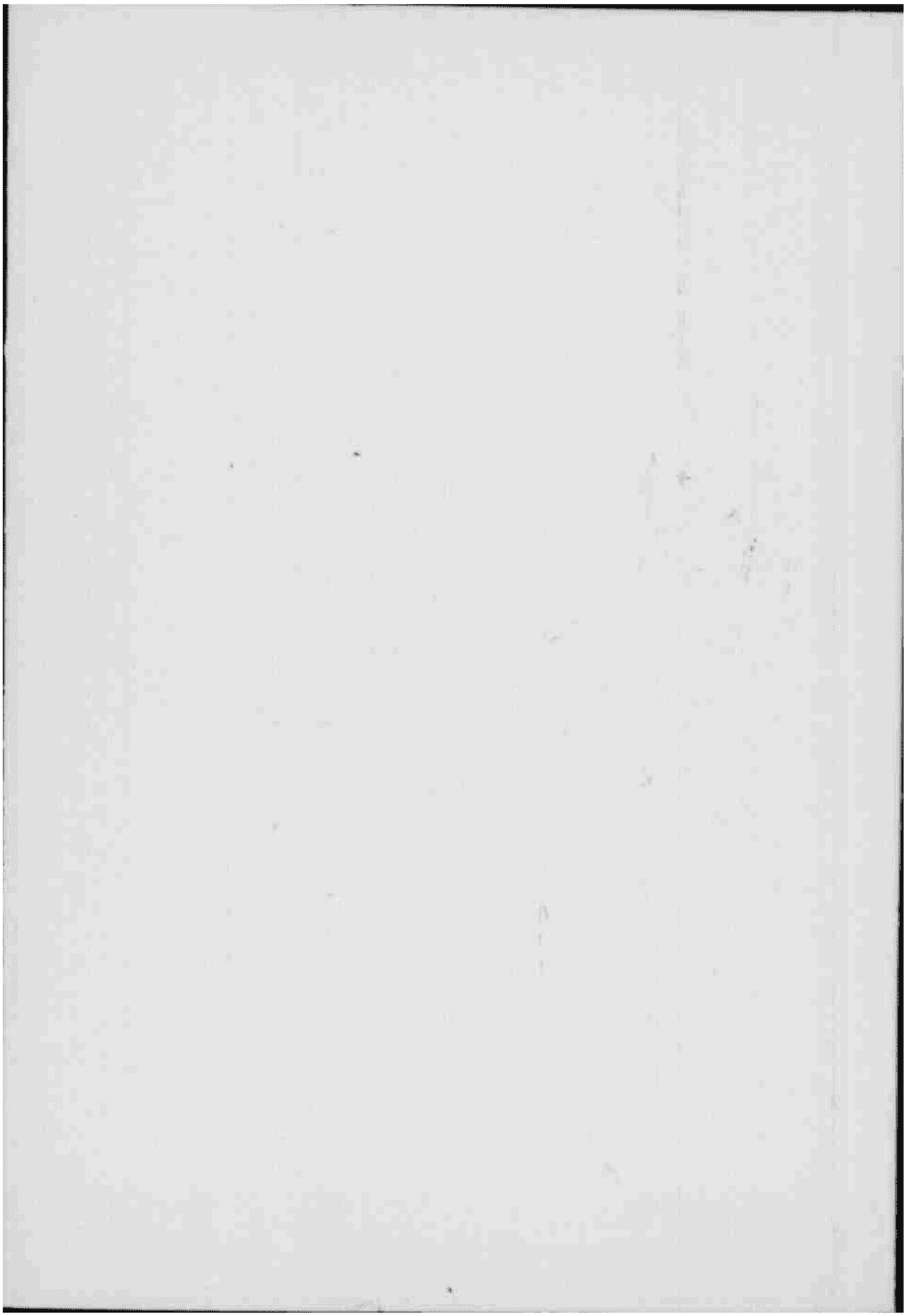
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100 MILLIMETERS

INSTRUCTIONS Resolution is expressed in terms of the lines per millimeter recorded by a particular film under specified conditions. Numerals in chart indicate the number of lines per millimeter in adjacent "T-shaped" groupings.

In microfilming, it is necessary to determine the reduction ratio and multiply the number of lines in the chart by this value to find the number of lines recorded by the film. As an aid in determining the reduction ratio, the line above is 100 millimeters in length. Measuring this line in the film image and dividing the length into 100 gives the reduction ratio. Example: the line is 20 mm. long in the film image, and 100/20 = 5.

Examine "T-shaped" line groupings in the film with microscope, and note the number adjacent to finest lines recorded sharply and distinctly. Multiply this number by the reduction factor to obtain resolving power in lines per millimeter. Example: 7.9 group of lines is clearly recorded while lines in the 10.0 group are not distinctly separated. Reduction ratio is 5, and 7.9 x 5 = 39.5 lines per millimeter recorded satisfactorily. 10.0 x 5 = 50 lines per millimeter which are not recorded satisfactorily. Under the particular conditions, maximum resolution is between 39.5 and 50 lines per millimeter.

Resolution, as measured on the film, is a test of the entire photographic system, including lens, exposure, processing, and other factors. These rarely utilize maximum resolution of the film. Vibrations during exposure, lack of critical focus, and exposures yielding very dense negatives are to be avoided.

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