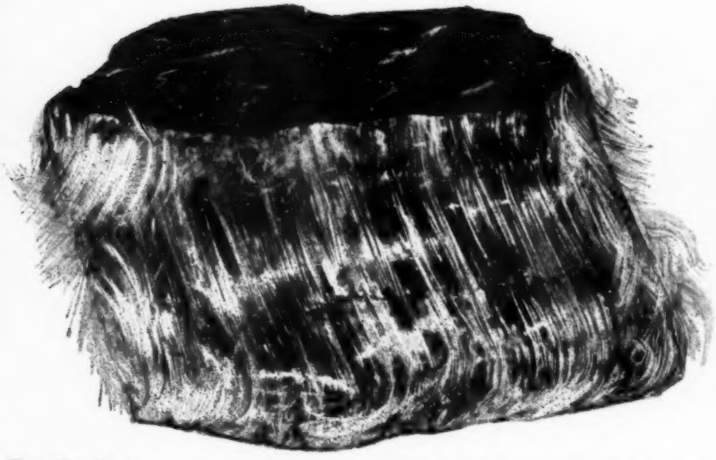
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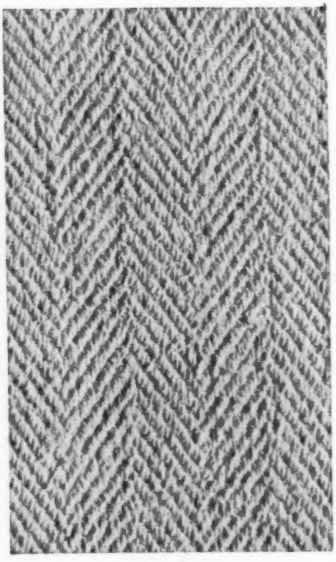
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ASBESTOS PRODUCTION IN AUSTRALIA

The use of asbestos as a fire resistant material is of great antiquity, but it is only in the last 30 years that it has been extensively used as a constituent of building materials. In that period the world production (excluding U.S.S.R.) has increased from 250,000 tons per year to more than one million tons, but the greater part of that increase took place in the last 10 years. This rapid expansion was due to a twofold effect of the War on the demand for materials of the type in which asbestos is used. During the War there was a world-wide shortage of iron and steel, and any material which could be effectively used as a substitute was in keen demand. In the case of asbestos-cement products, the corrugated and flat sheets and pressure piping proved to be acceptable substitutes for galvanized iron sheeting and iron pipes respectively, and the rate of asbestos production was maintained and even expanded during a time when the production of other building materials was depressed.

The demand for all building materials increased during the post-war period, when most countries were engaged in repairing war damage and overtaking arrears of home building while attempting to keep pace with normal building requirements. During this period asbestos-cement products were firmly established as economical substitutes for bricks and weatherboard as external walls of dwellings and for a variety of uses in industrial buildings, and world production of asbestos was more than doubled in eight years. It was confidently expected that the demand for asbestos-products would recede, to some extent as older established materials became more freely available, but there is no evidence of such a trend at the present time.

Taken on its own, the first phase might easily have caused instability in the industry by encouraging uneconomic development, over-capitalization, and production in excess of requirements. However, the second phase corrected any tendency in this direction and in general the industry throughout the world may be regarded as stable and prosperous. In the last 3 years

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the market for asbestos fibre has become more keenly competitive, leading to improve the standard of production and to develop new uses and techniques.

This broad generalization regarding the world position of the industry in recent years forms a background against which to consider the Australian position.

It is estimated that the current rate of consumption in Australia is about 30,000 tons per annum of which about 95% (28,500) tons is used for manufacture of asbestos-cement products and the remainder for floor tiles, battery boxes, brake linings, insulation, etc. Actual consumption in 1953 was 28,000 tons, but it is believed to have increased during 1954. The proportion of each type of fibre making up this total is not known, but for the purpose of these notes an estimate of 65% chrysotile (19,500 tons), 5% crocidolite (1,500) and 30% amosite (9,000 tons) may be used. It has been claimed that to make crocidolite production in Australia economical it is essential that domestic consumption in asbestos-cement products be raised to 4,500 tons annually. No soundly based technical reason has been advanced against the increased use of crocidolite for this purpose. Apart from the economic aspects, which are the real basis of the problem, a point at issue is whether the proposed additional crocidolite should replace either the chrysotile or the amosite now being used. Disregarding for the moment the small differences due to specific gravity, bulk volume, and other physical properties, the position at the current consumption level would be roughly as follows according to the quantity of each type used:

	Chrysotile Long tons	Crocidolite Long tons	Amosite Long tons	Approx. Cost £A,000
Estimated current consumption	19,500	1,500	9,000	3,010(a)
Consumption if 15% crocidolite used—				
replacing chrysotile	16,500	4,500	9,000	3,131(b)
replacing amosite	19,500	4,500	6,000	3,293(b)

(a) based on current c.i.f. costs—chrysotile, £102/short ton; crocidolite, £.38/short ton; amosite £55/short ton.

(b) based on current c.i.f. costs for chrysotile and amosite, and estimated £118/short ton for crocidolite.

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These figures must be regarded merely as estimates of the quantitative effect on fibre consumption by types if it should be economically possible to increase crocidolite consumption. They do not take into account the announced possibility that otherwise domestic production of crocidolite may cease, or the other possibility that if, say, tariff protection of crocidolite is necessary the increased cost might lead to a decreased demand for asbestos-cement products.

Asbestos production in Australia is negligible in relation to world production, but it is potentially of some significance in the Australian economy, and a careful investigation of this potential is justified.

The first recorded production in Australia was in 1880 from Jones Creek, near Gundagai, N.S.W., from which small amounts of amphibole were produced intermittently until 1921. Total production of amphibole asbestos (other than crocidolite) from this and other localities in various States to the end of 1953 was 404 tons. Chrysotile asbestos was first produced at Anderson's Creek, Tasmania, in 1899, but the greater part of the 12,315 tons produced in Australia to 1953 has been from Woods Reef and Baryulgil in N.S.W., the latter locality still supplying about 500 tons per year. High quality chrysotile is also being produced at the present time from Nunyerry in the Pilbara district, W.A. The earliest recorded production of crocidolite was in 1951, from Robertstown, S.A., but most of the subsequent production has been from the very extensive deposits in the Hamersley Ranges, W.A. Total production of crocidolite to the end of 1953 is 15,021 tons, and total value of all asbestos produced in Australia is recorded at £2,419,678.

Reliable oversea trade statistics are not available for the whole of the 30-year period, but it is estimated that the total value of exports was £A1 million and of imports £A14 million. In round figures, Australia has had an unfavorable trade balance of £A13 million in connection with her asbestos requirements over the last 30 years.

Chrysotile asbestos is economically the most important type, but Australian deposits are relatively small and widely scattered. The only deposit at present pro-

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viding material for asbestos-cement manufacture is at Baryulgil, 52 miles north-west from Grafton, N.S.W. Maximum yearly output was 569 tons recorded in 1953, which brought total production from the deposit to 3,998 tons. Ore reserves were estimated (1953) at 98,000 tons, containing approximately 2% recoverable fibre, giving a life of about 3 years at current rate of production. Good quality long fibre chrysotile is being mined at Nunyerry, about 90 miles south-east of Roebourne, W.A., and at Sherlock, 35 miles E.S.E. of Roebourne. Average annual production from this district (including some deposits not currently being worked, was 660 tons during the three-year period, 1951-1953. Most of this material is of a higher grade than is required for asbestos-cement, and has been exported at top prices. The short fibre so far accumulated as a residue dump may be utilized in increasing quantities in the future, and the intention to produce a blend equivalent to Canadian 4K grade has been announced. This is the grade most commonly used for asbestos-cement manufacture and there should be no difficulty in disposing of the output of this grade from Nunyerry. Markets for the fines are also being developed for paint and floor tile manufacture.

The chrysotile resources of the Roebourne-Marble Bar region are not fully explored, and it is not possible as yet to assess their potential size and value. It may be confidently expected, however, that production may expand and that the fibre will be used to a greater extent in Australia, but on present indications no more than a few per cent of their minimum requirements of chrysotile should be expected from this source.

Chrysotile deposits which have been worked to a limited degree in the past are at Woods Reef, N.S.W., Anderson's Creek, Tasmania, and in the Zeehan district, Tasmania. The Woods Reef deposit was worked from 1918 to 1923 for a total output of 2,478 tons, but operations were suspended when production costs were found to be too high. Similar circumstances led to closure of the mine at Anderson's Creek after 402 tons of medium length fibre had been produced. The first asbestos mill in Australia was established in connection with this mine

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in 1917, but the low fibre yield per ton of ore mined led to unduly high operating costs and the mill was moved to Woods Reef, N.S.W., after the mine closed in 1919. Four of the most promising chrysotile deposits in the Zeehan district were developed between 1941 and 1945, and ore from the development work was treated for a yield of 397 tons of fibre. A few tons (11) of good quality chrysotile was obtained in 1941-1942 from Asbestos Point, Macquarie Habor, Tasmania.

The principal Australian deposits of asbestos—of crocidolite (blue) fibre—occur in the Hamersley Ranges about 200 miles south-east of Roebourne, W.A. Fibre seams occur in near-horizontal beds of ferruginous quartzite and are widely distributed, the principal exposures being in Dale's, Yampire and Wittenoom Gorges. Earliest recorded production from the region was in 1937, but large scale operations were not started until 1943, when areas were leased to the present operating company, Australian Blue Asbestos Ltd. From 1937 to 1953 total recorded production was 14,209 tons, but it is likely that there was some unrecorded output in the early days. Total fibre reserves in the region have not been determined, but they are undoubtedly very large. One estimate quoted is 2,000,000 tons in seams over which the company holds leases, but the estimate recognizes that this total is not necessarily all recoverable; however, if it is assumed that the amount of non-recoverable fibre is offset by the fibre not included in the estimate (i.e., outside the areas held by the company), the total reserves are quite considerable and could supply the whole of the world requirements at the present rate of consumption for at least 50 years.

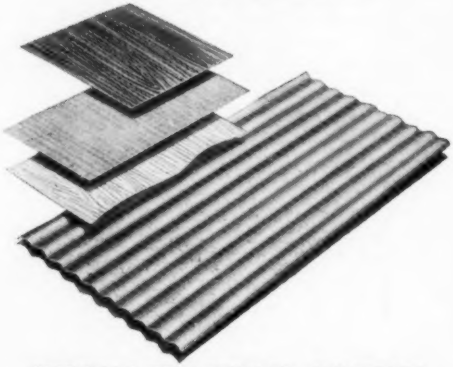
It is of interest to trace the more recent history of the Wittenoom project. Some prospecting and minor production were recorded from 1937, and a small pilot mill had been erected in Wittenoom Gorge, but large scale exploitation was not envisaged until 1943.

In a letter dated 22nd of December, 1943, quoted in the public evidence before the Tariff Board, the Director-General of War Organization of Industry advised the Colonial Sugar Refining Co., Ltd., inter alia,

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> **" . . . enquiries have been made among all the Commonwealth Departments concerned, and I am now able to place on record the fact that there is complete agreement as to the importance and urgency attached to your projects for the production of asbestos fibre in Tasmania and Western Australia.**
>
> **A copy of this letter is being sent to the Capital Issues Committee, and every effort will be made by this Department to facilitate the establishment of the industry . . ."**

If the company had had any misgivings about the importance of the project in Australian economy this official encouragement would have helped to dispel them. It will be recalled that this was the period throughout the world when asbestos enjoyed a measure of strategic importance, and shared with many other commodities to a "produce at any cost" status. The company was aware of certain commercial opposition from the outset, but after making allowance for this and many other factors the decision was reached that the project could be established and would ultimately be run at a profit.

The pilot mill and existing leases were taken over by Australian Blue Asbestos Ltd. (a subsidiary of Colonial Sugar Refining Co.) and additional leases acquired. A small settlement was established in the Gorge about one mile from the mine and all personnel were accommodated in barracks or tents during the early stages of development. Mining was commenced on a modified board and pillar system based on the methods then in use at the Glen Davis shale mine.

By the end of 1946 the first major problem had emerged—the retention of an adequate and efficient labor force—and it was obvious that proper living accommodation, amenities, and recreational facilities would have to be provided for men and their families. This problem was solved in association with the Commonwealth and State Governments by the establishment of a town comprising 152 houses, hospital, school, police station, post office, water service, hotel, stores, and amenities buildings. The town is now complete at a total cost of approximately £500,000, of which 20% was from company funds and the remainder from the Governments. With a population of 750 persons Wittenoom is about the same

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size as Broome, and the second largest town in the north-west of Western Australia (Carnarvon has a population of 2,750). Access is by sea from Fremantle to Point Samson (Roebourne) and thence 200 miles inland by road, or by regular air service from Perth via Meekatharra. All personnel, mails, some freight and perishable foodstuffs are transported by air.

The second major problem faced by the company was concerned with the method of mining, which had proved to be unsatisfactory. After consultation with mining experts in Austria and overseas, the board and pillar method was replaced by a stoping system with stopes only 3 ft. 6 in. high. Operations were mechanized to the greatest possible extent and the company claims that their mining methods are not very efficient. Evidence was submitted to show that the mining cost per short ton of ore broken in 1953 was 38.2/-, compared with 41.6/- at Mt. Isa, 37/- at Lake View and Star mine, and 42.1/- at Great Boulder mine (1952).

The third major problem, as yet unsolved, was that of rapidly rising costs brought about by higher wages, shorter hours and high freights. Between 1946 and 1951 the asbestos industry throughout the world moved from the "produce at any cost" stage to conditions of keen commercial competition. Older established producers in Canada and Africa were naturally in a better position to meet this change than the Australian company, which was still in the development stage and had had to face unforeseen difficulties in the initial operations.

This description of some aspects of the Wittenoom project will serve to emphasize several important features. Firstly, the costs of production are high and will remain so because the establishment and maintenance of community services are part of the project. The company rightly claims that the cost per ton of fibre produced can be reduced by increasing production, but the market will not take more fibre from this source unless the selling price can be made more competitive with that for South African blue fibre. The difficulty of reducing costs to that extent will be appreciated when it is stated that an equivalent grade of South African blue asbestos can be

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sold (presumably at a profit) at about £A95 per short ton, f.o.b., whereas the Wittenoom fibre costs £83 per ton for mine and mill wages and freight alone. The company has applied for tariff protection as a means of creating a larger market which will lead to higher turnover and lower costs.

The second feature is that the whole proposition is marginal and in a weak position to meet market fluctuations. Accumulated stocks in mid-1954 were stated to exceed 3,000 short tons valued at £350,000, and these were admitted to be a financial embarrassment to the company. Even if the unsold stocks could be liquidated or substantially reduced in some way now, it could not be assumed that a similar accumulation would not occur again as a result of more or less sudden market fluctuations or changes in economic conditions in the future. The company might then have to reduce stocks again by curtailing production, thereby reverting to the present cost position which is acknowledged to be unsatisfactory. Expressing this in another way, it seems doubtful that the profit margin at an f.o.b. price of £110 per short ton (which the company believes would be attained with a general development of the region, and closure of the mine enough to provide a reserve to meet comparatively small but vital changes in the domestic and overseas demand.

A third feature is that the project has helped in the general development of the region, and closure of the mine at this stage would have an effect beyond the asbestos industry. The air lines serving the remote stations and towns in the northwest derive a large proportion of their revenue from the Wittenoom project. Wages paid at the jetty at Point Samson have increased from £800 per year in 1938 to more than £12,000 in 1953, due to the amount of cargo handled from Wittenoom (approximately 10,000 tons in 1953, or nearly 80% of the port total) and the number of residents of Roebourne had doubled in eight years. These facts justify consideration of the strategic and economic implications which would result from a breakdown of production.

Recognizing the difficulties facing the industry, the Minister for Trade and Customs referred the problem to

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the Tariff Board in accordance with Section 15 of the Tariff Board Act, 1921-1953, to determine the question: "Whether assistance should be afforded the production in Australia of asbestos fibre, and, if so found, the nature and extent of such assistance."

The Board conducted the inquiry in June 1954, and heard evidence on the application by Australian Blue Asbestos Ltd. for imposition of a tariff as follows:

(1) On asbestos crude or milled, grades equivalent in length to Canadian grading groups 1 to 5 ..... 40%

(2) On asbestos crude or milled, grades equivalent in length to Canadian grading groups 1 to 5 entered for use in manufacturing articles in Australia the total asbestos content of which consists of not less than 15% by weight of Australian crocidolite asbestos or such greater percentage as may be gazetted from time to time by the Minister of Customs Free

(3) Grades shorter in length than Group 5 by Canadian grouping ..... Free

The report of the Tariff Board is now awaited.

The future of asbestos production in Australia is uncertain. Chrysotile output from Nunyerry and elsewhere in the Pilbara region of W. A. is expected to increase, but there is no indication of the scale of future production, and whether it will offset the loss of production when the Baryulgil (N. S. W.) deposits are exhausted in the near future. Output of crocidolite has steadily increased since the extensive deposits in the Hamersley Ranges were opened during World War II, but the high cost of production has proved a deterrent to development of a full market, stocks have accumulated, and the operating company has applied for tariff protection as a means to increase the domestic market for the fibre. It is claimed that if the local demand is increased to 4,000 short tons the company would have an assured market for a total of 8,000 short tons, and costs of production could then fall from the present £135 to an estimated £102 per ton, which would enable the company to sell at a competitive price.

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ASPHALT AND ASBESTOS BUILDING MATERIALS

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If this cannot be achieved, crocidolite production may have to be suspended, involving the writing off of fairly large capital expenditure.

(An article by Mr. I. C. H. Croll, Senior Mineral Economist of the Bureau of Mineral Resources, published in The Australian Mineral Industry—Quarterly Review Vol. 7, No. 3)

THE COVER FOR OUR 37th VOLUME

The new cover begins our 37th Volume. It depicts a piece of fine Canadian Crude, the photograph having been provided by Asbestos Corporation Limited, Thetford Mines, P.Q., Canada.

"ASBESTOS" has tried in the past 36 years to keep the Asbestos Industry informed of asbestos happenings. How well we have succeeded in this very interesting endeavor is told by the many letters of commendation received.

Our constant effort is to improve the magazine; you readers can help us by telling us what sort of information you find most interesting and most helpful, and by sending us constantly news of your companies, your associates and yourselves.

Ideas, opinions, comments and criticism are always welcome.

SUBSCRIBERS DESIRING CHANGE OF ADDRESS—Is your magazine addressed correctly? Examine the wrapper, and notify "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa., if you desire any change. Please send back the old wrapper, and the new address, and allow about five weeks for the change.

BUSINESS EXECUTIVES, SCIENTISTS and researchers tell us again and again that hundreds of new industries (and, of course, thousands of enterprises within each industry) are born every year and many others are on the threshold.

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DRYLON
WET MACHINE FELTS

Wool and Nylon Blend Fleece

Carefully Engineered

To Meet

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In

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DRYCOR FELT COMPANY

STAFFORDVILLE, CONN. USA.

**Nylon Has Proved Itself Essential in Asbestos Cement Felts*

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BUILDING

May's dollar volume of Dodge Reports of contract awards for future construction in the 37 states east of the Rockies was up 13 per cent above the contract total for May 1954 and was the third highest of any monthly total recorded in the history of F. W. Dodge Corporation. The total was $2,185,065,000.

The five-month total of $9,717,562,000 set a new high record and was 29 per cent above the corresponding figure for last year which reached the previous high mark.

For the second successive month the Dodge residential classification topped the billion mark; at $1.011,310,-000, residential building contracts were up 23 per cent above the total for May 1954. Last month's residential total was the second highest in Dodge history, exceeded only in April of this year.

The weight of these figures on the national economy can be measured by the fact that residential dollars total almost half of the total construction as carried in the Dodge Reports.

Nonresidential building totaled $725,755,000 last month, up 8 per cent over May 1954. Public works and utilities totaled $448,000,000, up 5 per cent over May 1954.

For the five months the classified totals were:

Nonresidential building, $3,289,895,000, up 20 per cent over the first five months of 1954; residential building, $4,505,626,000, up 38 per cent; public works and utilities, $1,932,041,000, up 28 per cent.

Some 70,000 churches and synagogues will be constructed or substantially altered in the United States in the next ten years at a cost of nearly six billion dollars, according to George Cline Smith, economist of F. D. Dodge Corporation, writing in the June issue of Architectural Record.

In addition, he estimates, there will be about 12,500 parish houses, Sunday school buildings and related buildings costing about one and a billion dollars, Parochial educational buildings are not included.

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MARKET CONDITIONS

GENERAL BUSINESS

Business in general continues to improve. Activity in practically all lines from basic steel production to retail sales is the greatest of all time. A large question mark was removed from the picture with the settlement of the Ford-UAW negotiations without a strike, followed closely by a similiar settlement at General Motors. In the wake of these developments and in view of the uniformly good news about other facets of the economic situation the stock market has been very strong and new highs are being met almost daily. Despite some unanswered questions such as "How will new car sales fare during the second half of this year?", there is a pronounced feeling of optimism in the business and financial community.

ASBESTOS—RAW MATERIAL

Asbestos fibre shipments are maintaining their lead over last year, which is approximately 10% to 12%. Additional production from expansion by some of the major producers has placed supply well in excess of even the current high demand.

All grades, with the possible exception of No. 1 and No. 2 crude are in good supply.

While the present rate of business maintains in the Textile, Brake Lining, Floor Tile and Asbestos Cement Products, we look for a continued satisfactory demand.

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles. With the exception of some goverment inquiries, the present situation is only fair. There is insufficient business being placed by the equipment manufacturers to consume the production of all the asbestos textile equipment within the U. S. Government purchasing continues on a fair basis, which has helped substantially to support production facilities.

Asbestos Brake Lining. The equipment business is running far ahead of 1953 business. In replacement, more

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CANADIAN ASBESTOS



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ASBESTOS FIBRE DIVISION

70 Pine Street

New York 5, New York

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materials were shipped in the last three months than any like period in history. The balance of the year should be very good; jobber inventories being medium size to low with more available business than ever before.

Asbestos Paper. The market situation has been progressively improving, although competition continues to be keen. The sale of *Millboard* should continue about the same for the balance of the year with competition keen for available volume. Although demands have been increased in the past two months for *Saturated Paper*, production still exceeds the demand.

Insulation. High Pressure. Order bookings are low and little improvement can be expected until many industrial projects have progressed to a point later in the year where insulating materials will be required. All backlog of insulation contractors are lower than they have been for many years.

Insulation. Low Pressure. Demand continues at a good rate, reflecting the high level of activity in the commercial and housing construction field.

Asbestos Cement Products. The market is getting stronger; improved siding products receiving wider acceptability.

The past two months has shown an increase in the roofing and siding market, as compared with the same period last year.

Although the demand has increased slightly for corrugated and flat, production still exceeds demand.

The Pressure and Sewer Pipe markets continue strong. House Pipes and Electrical Conduits are maintaining their positions.

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

SITUATIONS OPEN

Heat Insulation Estimator—Salesmen and Contract Managers required by national concern. Complete resume and sales history to Box 7-M, "ASBESTOS," 807 Western Saving Fund Bldg., Phila. 7. All replies will be held confidential.

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CANADIAN ASBESTOS INDUSTRY - 1954

In a published summary of industry activity in 1954, the president of Asbestos Corp., Ltd., commented on market developments as follows:

The outstanding factor affecting the industry in 1954 was the virtual balance between supply and demand. Since 1945, the Canadian suppliers of raw asbestos have been hard put to meet the annual needs of their customers but in 1954, except for temporary shortages in certain grades, supplies were usually available.

The full effect of the expansion program embarked upon some years ago has not yet been felt but already two major additions to the productive capacity of the industry are in operation in the Eastern Townships. Early in 1955 another large unit will come into production in this area, and further growth in the industry is scheduled during the course of the next few years. The total cost of all such projects for the period 1952-57 has been estimated at $75 million and with these additions the combined productive capacity of the Canadian mines should ensure adequate supplies of asbestos fibre for years to come.

The predominant position of Canadian asbestos in the world's markets was maintained throughout 1954, though increased competition was felt particularly in Western Europe, from other sources of supply, notably the USSR. Only some 5 per cent of Canadian output is consumed domestically and the balance is exported throughout the world. The United States is the most important customer for Canadian asbestos followed by the nations of Western Europe, South America and Australia; there are few individual countries in the world to which Canadian asbestos is not being shipped. Moreover the prospective growth of some of those countries which are at present relatively undeveloped industrially suggests that other geographical markets will be available in the future.

The most salient feature of the overseas foreign markets during 1954 was the resurgence of demand for fibre from Western Germany, an important prewar customer,

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reflecting the growing economic stature of this country. Similarly, shipments to Japan were approaching prewar levels. Consignments to other countries were at about the level of the last few years though South America sales continued to be hampered by foreign exchange difficulties. A large proportion of asbestos fibre is sold in terms of United States dollars and consequently the value of such sales was reduced by the discount prevailing on that currency throughout the year which discount for the first 11 months of 1954 averaged 2-⅝ percent.

(From Mineral Trade Notes, Feb. 1955)

IN 20 YEARS: A PREDICTION

An advance look at the world of tomorrow, which American industry expects to help create, is contained in "People, Products and Progress: 1975", a slide-film feature prepared by leading U. S. trade associations. The imaginative visual preview of products and processes was planned as a highlight for the first session of the 43rd annual meeting of the Chamber of Commerce of the United States in Washington, and was narrated by Arch N. Booth, Chamber executive vice-president. It depicts a wide range of products and developments visualized in home building, food chains, fertilizers, electronics, gas, cement, conveyors, steel, aircraft, railroads, automobiles, trucks, truck-trailers, lumber and hotels. Booth forecast a nationally population of 221,000,000 by 1975.

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CANADA'S ASBESTOS GOODS 1953

The Asbestos Products Industry, 1953, a seven page folder issued recently by the Dominion Bureau of Stastics at Ottawa, gives various statistics concerning Canada's asbestos manufacturing industry. Briefly a few figures are of special interest: factory shipments by the manufacturers of asbestos goods in Canada in 1953 were valued at $22,030,972.

Divided as to products these figures will be of more than usual interest:

	1953		1952	
	Quantity	Selling At Works Value	Quantity	Selling At Works Value
Asbestos Brake Linings				
Molded .....Ft.		$3,073,335	.....	$ 2,918,294
Other .....Ft.		399,553	.....	430,237
Asbestos Pipe and Boiler Coverings		1,506,667	.....	1,668,890
Asbestos Clutch Facings .....No.	1,023,551	551,574	1,070,689	597,019
Asbestos Gaskets		88,451	.....	79,537
Asbestos Packings (All kinds)		525,084	.....	1,009,451
All Other Products [1]		15,886,308	.....	12,935,142
		$22,030,972		$19,638,570

[1]Includes asbestos dryer felt, hydraulic hose, asbestos shingles, asbestos yarn, asbestos millboard, asbestos cement wallboard, asbestos cloth, asbestos cement pipe, etc. Figures for these commodites cannot be shown separately as in most cases there were only one or two producers in this industry.

	1953	1952
Number of Plants	18	17
Average Number of Employees	1,930	1,826
Salaries and Wages	$6,223,024	$5,448,895
Cost of Fuel & Elec. at Works	557,589	535,910
Cost of Materials at Works	10,363,034	9,306,930
Gross Selling Value of Products	22,030,972	19,638,570

Of the 18 factories reporting in 1953, 7 were located in Quebec, 8 in Ontario, 1 in Nova Scotia and 2 in British Columbia.

Other tables, concerning imports, exports, materials

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used in the Asbestos Products Industry, etc., are included in the pamphlet which may be obtained from the Industry and Merchandising Division at Ottawa for 25c. Ask for "The Asbestos Products Industry — 1953".

Creator of "Hector", the asbestos producer, Gerhard Brinkmann, the new Canadian cartoonist received national recognition during April.

Featured in a two-page spread of cartoons in WEEK-END Magazine which has a circulation of over a million copies, Brinkmann's work in the asbestos country was noted by the editors. "Today, an advertising illustrator who has had several books of cartoons published, Brinkmann lives in Granby, Quebec, from where he sets out to seek new cartoon ideas in asbestos mines, department stores and factories," the WEEKEND editor reported.

(From Asbestos Producer, April 1955)

CSR

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Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.

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HEAT TREATMENT OF CHRYSOTILE ASBESTOS FIBRES

The very interesting article, "Heat Treatment of Chrysotile Asbestos Fibres" by M. S. Badolett and W. C. Streab, Johns-Manville Products Corporation, Research Center, Manville, N. J., appeared in the Canadian Mining and Metallurgical Bulletin, February 1955.

This article covers a heat-treatment process developed for converting soft, silky, slimy chrysotile asbestos fibre into fibres processing properties competitive with those of natural semi-harsh to harsh fibres. The process, a flash-heating system, was operated as a pilot plant at the rate of 2 tons per hour for several years.

The process allows the mine and mill operator to control his product and to produce any desired texture for fibres grading from Group 3 to Group 7 and "floats", at nominal additional cost.

By heat treatment, the physical properties of the fibres have been partially altered by the removal of small quantities of molecular water and a partial conversion of magnetic iron oxide (magnetite) to the non-magnetic oxide, Fe_2O_3.

The improvements in filter-ability, increased bulk, increased absorption, increased surface area, and better electrical properties, such as volume restivity, are all a direct function of the temperature and time of heating.

The tensile strength of heat-treated fibres, as well as the strengths of asbestos-cement panels containing them, will decrease as the temperature and time of treatment is increased. However, this disadvantage is minor and the products are equal to those obtained by using natural semi-harsh to harsh fibres.

Reprints of this article are available from Canadian Institute of Mining & Metallurgy, (Mr. C. Gerow), 906 Drummond Bldg., Montreal 2, Canada.

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CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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AUTOMOBILE SALES

	May 1955
Passenger Cars	721,139
Motor Trucks	127,941
Motor Coaches	313
	849,393

In May 1954, a total of 588,611 motor vehicles were sold. In the five months of 1955 the total was 4,096,151.

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

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BLUE ASBESTOS

Widely known for its resistance to acid and chemical action—is also the strongest, toughest, finest in fiber diameter, most durable of all mineral fibers.

WORLD'S LARGEST SUPPLIER OF BLUE ASBESTOS IS CAPE BLUE MINES (Pty) Ltd.

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an associate company of

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•

For complete information about Blue Asbestos, contact the following Cape Asbestos Co. subsidiaries:

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

In Canada
CAPE ASBESTOS (Canada) Ltd.
200 Bloor Street East, Toronto, Ontario

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PRODUCTION STATISTICS

Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for April 1955 ..... 94,980 tons
Production for April 1954 ..... 80,612 tons

Dominion production for April 1955 is 98,658 tons, a difference of 3,678 tons from the Quebec figure.

Africa (Rhodsia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for February 1955 ..... 7,089.06 tons
Valued at £513,185
Production for February 1954 ..... 6,031.53 tons
Valued at £457,272

Yugoslavia—Output of asbestos increased steadily in 1953, and totaled 3,748 metric tons, compared with 2,506 tons produced in 1952. Returns for the first 8 months of 1954 seemed to indicate a reversal of the upward trend in production, but this development does not reflect a downward trend in domestic or foreign demand; rather it reflects difficulties experienced by Yugoslav asbestos mines, caused by lack of adequate exploration data, to maintain the relatively high mining output.

(From Mineral Trade Notes, Feb. 1955)

The workman of today produces as much in one hour as his 1850 counterpart did in five.

ASBESTOS-CEMENT MACHINERY

Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

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IMPORTS AND EXPORTS

Imports into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos — By Countries:

	February 1955
From Canada	44,149
Union of S. Africa	2,922
Rhodesia	329
Australia	107
Other Countries	11
	47,518
Valued at	$4,480,463

By Grades:

Crude No. 1, Chrysotile	6
Crude No. 2, Chrysotile, Canada	22
Crude, Other, Chrysotile, U. of S. Africa	347
Crude, Other, Chrysotile, Rhodesia	329
Crude, Other, Chrysotile, Other Countries	3
Crude, Blue, Australia	107
Crude, Blue, Union of S. Afrcia	1,904
Crude, Amosite, U. of S. Africa	612
Textile Fibres, Chrysotile, Canada	1,092
Textile Fibres, Chrysotile, Other Countries	2
Shingle Fibres, Chrysotile, Canada	6,114
Paper Fibres, Chrysotile, Canada	3,913
Other Figures, Chrysotile, Canada	33,008
Other Fibres, Chrysotile, U. of S. Africa.	59
	47,518

Manufactured Asbestos Goods:

	February 1955 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	46,822	$ 55,081
Asbestos Packing & Lining, Canada	28,647	42,546
Other Countries	5,055	3,585
Asbestos Shingles, (Impreg.)	18,918	2,169
Asbestos Shingles, (Not Impreg.)		
Canada	1,108,552	63,097
Italy	400,774	16,788
Asbestos Manufactures — Others	.....	2,904
	1,608,739	$186,170

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THIS AND THAT

A comparatively new material, asbestos-cement siding shingles, has moved into a top position among home building materials, it is reported by the Asbestos-Cement Products Association. Used primarily as exterior sidewall covering on houses of frame construction, the asbestos product is now more extensively employed for that purpose than any other material except wood clapboards. Last year's shipments were the highest on record, exceeding by 7 per cent the previous mark set during the record home building year of 1950.

Automatic cleaning and surfacing of automotive brake shoes for subsequent bonding of linings is the subject of a new bulletin just published by American Wheelabrator & Equipment Corporation, 1292 South Byrkit Street, Mishawaka, Indiana. The bulletin gives a very complete case history of one prominent brake shoe bonding company, showing how manual surfacing methods and their disadvantages were done away with by adopting the automatic airless abrasive blasting process with Wheelabrator machines.

Since World II, 9.5 million dwelling units have been built and occupied, the Chamber of Commerce of the United States reports, all under private financing.

Dr. Oliver Bowles has completed an extended special assignment with the U. S. Bureau of Mines in Washington, D. C., chiefly on asbestos problems, and is now engaged in consulting work on asbestos and other non-metallic minerals. His address is 5000 Massachusetts Avenue, N. W., Washington 16, D. C.

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Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	February 1955	
	Tons (2240 lbs.)	Value
To Europe	116	$15,289
United Kingdom	9	900
Other Countries	45	6,440
	170	$22,629

Manufactured Asbestos Goods:

	February 1955	
	Quantity	Value
Asbestos Pipe Covg. & Cement ..... Lbs.	302,029	$ 44,820
Asbestos Textiles & Yarn ..... Lbs.	77,897	87,871
Asbestos Packing ..... Lbs.	165,329	165,057
Asbestos Clutch Facings & Lining No.	86,131	79,867
Asbestos Bk. Lng. (Mld.&S.Mld.) Lin. Ft.	104,279	32,370
Asbestos Bk. Lng. Rolls (Woven) Lin. Ft.	40,082	32,592
Asbestos Bk. Lng.—Other ..... Lb.	292,238	252,288
Asbestos Construction Materials ..... Lb.	2,563,249	223,536
		$926,509

School buildings can easily and inexpensively be built resistant to atomic blasts as compared with schools designed without that factor in mind, according to a treatise in the June issue of Architectural Record a professional magazine for architects and engineers. (A publication of F. W. Dodge Corporation.)

The article points out that not only is the protection of school children important, but that school buildings are of prime importance for shelter and service for all people after an attack.

The Bureau of Economic and Business Research, School of Economics and Business, State College of Washington, Pullman, Washington, recently published the very interesting book entitled, "The Hard-Surface Floor-Covering Industry, by Robert F. Lanzillotti.

This is the first work to assemble a body of comprehensive data on the hard-surface floor-covering industry. It contains 220 pages, 30 tables and 17 figures. Price $4.00.

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WEATHER FORECASTING may be handled by an electronic "brain" in the future, according to federal meteorologists. A unit, known as IBM 701 Electronic Data Processing Machine, or the "Seven-Oh-One", is said to be capable of absorbing huge quantities of atmospheric information, solving complex mathematical equations, and even drawing maps. It is expected to be furnishing daily nationwide, 24-hr. to 48-hr. weather predictions within a year or so, and eventually provide 5-day and 30-day weather outlooks, with much greater accuracy and detail. Improved forecasts would be a boon to all, particularly construction firms, farmers, aggregate plant operators, etc., who require fast, detailed and accurate weather guides for day-to-day operations.

Model TAP (AUTOMATIC TRIP) — Automatically controlled WITHOUT A SOLENOID, Model TAP clenches staple and retracts when the carton is tapped against the stapling head! NO FOOT SWITCH — NO MECHANICAL CABLE — NO SOLENOID — NO RELAY. Model TAP is the first and only retractible anvil machine ever produced that staples automatically by completely mechanical means. Designed by Werner Schafroth and manufactured exclusively by Container Stapling Corporation, 308 N. Park Avenue, Herrin, Illinois.

IF YOU MUST READ . . . As a highly readable survey in layman's language of what chemistry has done, is doing, and can do for the people of the world. "Two Ears of Corn, Two Blades of Grass" by D. H. Killefer, is recommended. It is published by D. Van Nostrand Co., 250 Fourth Avenue, New York 3, N. Y.

If Americans maintain the last 80 years' rate of progress for the next 80 years, according to the Chamber of Commerce of the United States, the income of the average family will be $25,000 of 1953 purchasing power. Present average family income is $5,000.

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Exports from Canada

Published by Dominion Bureau of Mines

Unmanufactured Asbestos

	April 1955 Tons (2000 lbs.)	Value
Crude		
United States	16	$ 11,810
United Kingdom	....	.....
South America	....	.....
Central America and Mexico	....	.....
European Countries	15	11,865
Other Countries	....	.....
	31	$ 23,564
Milled		
United States	11,709	$2,034,318
United Kingdom	3,786	741,974
South America	3,177	545,372
Centratal America and Mexico	130	17,565
European Countries	4,861	897,482
Other Countries	3,569	593,969
	27,234	$4,830,680
Shorts		
United States	41,464	$1,866,085
United Kingdom	2,820	131,701
South America	810	56,748
Central America and Mexico	....	.....
European Countries	4,804	309,304
Other Countries	746	52,396
	50,644	$2,416,234
Grand Total — Unmanufactured Asbestos	77,909	$7,270,589
Manufactured Asbestos Goods		
Brake Lining		$ 23,601
Packing		.....
Other Materials		201,817
		$ 235,418

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

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NEWS OF THE INDUSTRY

HAPPY BIRTHDAYS

R. D. Cross, Secretary-Treasurer, Smith Asbestos Products, Inc., Millington, N. J., July 16.

Thomas L. Gatke, President, Gatke Corporation, Chicago, Ill., July 16..

L. U. Noland, Chairman of the Board, Noland Co., Inc., Newport News, Va., July 17.

G. F. Bahrs, Treasurer, The Ruberoid Co., New York City, July 18.

J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, N. J., July 18.

R. F. Turner, Sales Manager, Building Products Division, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 18.

C. B. Whitely, Secretary, Scandinavia Belting Co., Charlotte, N. C., July 20.

C. J. Backstrand, President, Armstrong Cork Co., Lancaster, Pa. July 21.

Laurence W. Clarke, Vice President, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 21.

R. S. King, Chairman, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 21.

W. S. Simpson, Director & Secretary, Raybestos-Manhattan, Inc., Bridgeport, Conn., July 21.

R. R. Galloway, Sales Manager, Building Materials Division, Pabco Products Inc., San Francisco, Calif., July 22.

J. E. Hooker, Pacific Roofing Co., Portland, Oregon, July 22.

Charles A. Saitta, President, Asbestos Corporation of America, New York City, July 23.

C. R. Hubbard, Vice President, Carlock Packing Co., Palmyra, N. Y., July 25.

Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Ill., July 25.

Frank C. LeRow, Vice President and Treasurer, Asbestos, Asphalt & Insulations, Inc., Chicago, Ill., July 26.

P. H. Ryan, Sales Manager, Asbestos Products Division, National Gypsum Co., Buffalo, N. Y., July 26.

R. S. Hammond, General Sales Manager, Building Products Division, Johns-Manville Corporation, New York City, July 27.

John Ozurovich, President, Atlantic Asbestos Corporation, New York City, July 31.

Harry H. Heckroth, Vice Presdent, Penn Supply & Metal Corporation, Phila. Pa., August 2.

C. W. Gregg, Treasurer & Director, The Flintkote Co., New York City, August 3.

G. P. Reilly, Plant Manager, Smith Asbestos Products, Inc., Millington, N. J., August 5.

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CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTERATION FIBRE

Mines & Mill:
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A. P. Keasbey, President, Robert A. Keasbey Company, New York City, August 6.

Paul C. Callopy, President, Acme Asbestos Covering & Flooring Co., Chicago, Ill., August 8.

John Dragisic, Vice President, Asbestos & Magnesia Materials Co., Chicago, Ill., August 9.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Ill., August 11.

Matthew L. Ladden, President, Ladden Asbestos Corporation Brooklyn, N. Y., August 15.

Ernest Muehleck, President, Keasbey & Mattison Co., Ambler, Pa. August 15.

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

RAYBESTOS PRE-SEASON SALES PROGRAM BOOSTS SUMMER SALE OF HEATER HOSE

A pre-season sales campaign begins this month to encourage car dealers repair shops and service stations to replenish their stock of car heater hose during the slack summer season.

The aggressive new program by Raybestos Division of Raybestos-Manhattan, Inc., Bridgeport, Conn., pushes the sale of Raybestos car heater hose in Universal size in cartons of 50-foot lengths or coils and in a 25-foot reels, or refills for reels.

Dealers who order heater hose during this pre-season sales push are supplied with a spring and a fall package of selling aids. These packages contain two-color point-of-sale cards, wall posters, streamers and sample direct-mail cards and folders. All are themed to make the customer conscious of the advantages of having his car's cooling system and heater checked before cold weather comes.

NEW APPOINTMENT AT SALL MT.

Hugh M. Savage has recently been appointed to the sales staff of the consumer fabrics department, textile division, United States Rubber Co.

Mr. Savage will be selling greige goods to the converting trade and will report directly to Mr. James H. Purdy.

He has been associated with the textile industry for more than 20 years and was with Avondale Mills and the J. L. Bailey Company in various capacities before coming to U. S. Rubber.

Asbestos Exploration . Mine Development
WILLIAM B. MILLAR
Consulting Geologist
Mail Address: Room 1050
161 EAST 42nd ST. NEW YORK 17, N. Y.

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Dependable precision in heat insulation, to meet modern engineering demands! Pabco "Precision Molded" 85% Magnesia combines time-tested superiority with precision molding – close tolerances, controlled sizes, light weight, uniform texture!



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INSULATION DIVISION

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Manufacturers of Heat Insulation since 1920

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CAPE ASBESTOS COMPANY LIMITED
Annual Meeting

The sixty-second annual general meeting of The Cape Asbestos Company Limited was held on June 7 and reports and balance sheets as of December 31, 1954, were submitted.

The Chairman, Robert Walker, stated not only did the Parent Company's net profit show an increase over the previous year, but there was also a gratifying rise in the profit of the Group. The Group trading profifit for the year amounted to £1,256,015 compared with £1,038,953 in 1953.

At Barking operations have been very much on the scale of previous years, though there was a very slight decline in the volume of turnover. This slight decline is not, however, a matter for any concern, since it stems from the transfer of certain operations hitherto carried out at Barking to other factories in the Group. Acre Mill again showed a substantial improvement, and credit is due to all engaged there for their successful effort. The Uxbridge Board section reflected the results of a greatly increased turnover; and Kentmere again produced a higher profit, entirely due to greater efficiency at the factory.

CORK ASBESTOS MINES (PTY) LTD.

One of the leading producers of Transvaal Blue Fibre and White Crocidolite, Cork Asbestos Mines (Pty) Limited, Northern Transvaal, South Africa, has erected a new fiberizing section at their mill to meet the demand for well fiberized fibre.

This section is so arranged that it can be quickly brought into use or by-passed to give either well opened fibre or fibre in cruder form. In either case the product passes to a patent "Alpha" cleaning plant supplied by "The Asbestos Grading Equipment Company (S.A.) (Pty) Ltd. of Johannesburg, who have also supplied the fiberizing section.

The Sole Selling Agents for Cork Asbestos Mines are Velley Asbestos (Pty) Limited P. O. Box 9131, Johannesburg.

BELL'S ASBESTOS OUTLOOK

The check imposed in 1953 to the progressive expansion of profits of Bell's Asbestos and Engineering (Holdings) proved temporary. Not all the leeway has since been made up in trading profits, but the net taxed balance for 1954 is higher than ever and the dividend is raised by 2-½ per cent, to 17-½ per cent. This additional distribution is well within the profit compass, since the total 17-½ per cent is covered four times by group balances and maintains the shares in the blue-chip class.

To support this latter statement it is suggested that consideration should be given to the fact that the company has pursued successfully since the war a policy of expansion coupled with consolidation. Moreover, the chairman, in his latest review of the company's affairs, is confident that at home and overseas the fuller benefits of this policy have still to be reaped.

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Grades: Spinning, 3Z, 4H, 5R, 6D, 7M

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CAPE BLUE

Kuruman Cape Blue Asbestos

Grades: 1, 2, 3

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Baboon Asbestos Co.

Springbok Asbestos Co.

Grades: TD1, TD2, TD3, TD4

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NEW APPOINTMENT AT BIRD & SON, INC.

Appointment of *Leonard C. Niese* as advertising and sales promotion manager, building materials, for Bird & Son, Inc., has recently been announced.

Mr. Niese joined Bird & Son, manufacturers of building materials, hard surface floor coverings and paper products, on May 16th. He had been associated for the past five years with Alexander Smith, Inc., carpet manufacturers, in advertising and sales promotion.

NEW TEXT BOOK ON ASBESTOS

The Textile Institute, 10 Blackfriars St., Manchester 3, England, recently discussed with the Asbestos and Allied Industries the need of a comprehensive text book on the subject. A manuscript has now been offered the Textile Institute for possible publication.

Since the manuscript is a work of a specialized character, the Institute feels that it would be useful if some indication of potential demand could be ascertained.

What is being sought in this preliminary survey, is some indication of potential demand; definite orders are not at this stage being invited and no obligation will arise as a result of providing the information now requested.

It would therefore, be helpful if our readers would write the Textile Institute indicating how many copies they would be likely to require upon publication. It is expected that the price of the book will be 55/-d per copy or $7.70.

The manuscript contains approximately 75,000 words with 100 photographs and 48 line illustrations. While the work covers all aspects of the asbestos industry, its main emphasis is on the textile side, and several new machines, processes and products are listed for the first time.

An idea of the scope of the book may be obtained from the following outline of the chapters.

1. Brief historical survey — World Production figures for past 20 years.
2. Mineralogy of Asbestos — its origin, occurrence and classification.
3. Physical and chemical properties—including microscopy.
4. Types of mining methods and extraction of fibre from rocks.
5. First stages of textile processes — opening.
6. Blending of different types of Asbestos and blending of asbestos with other fibres.
7. Carding: the faults that may arise. Setting and granding.
8. Conventional methods of Spinning — mule, flyer, ring. Novel methods of Spinning.
9. Conversion of yarns into fabric. Weaving, braiding and knitting. Novel methods. Notes on dyeing.
10. Variety of asbestos textiles described.

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11. Brake linings — types of asbestos used and the methods of making brake linings. Review of recent patents.
12. Asbestos-cement products, e.g., for building purposes.
13. Asbestos in the Plastics industry.
14. Other industrial applications — e.g., gaskets, millboards, felts and combination with aluminum.
15. Other heat-resistant fibres.
16. Testing. Several new methods are described.
17. Information on Import and Export of Asbestos and goods made therefrom with a comprehensive trade directory.

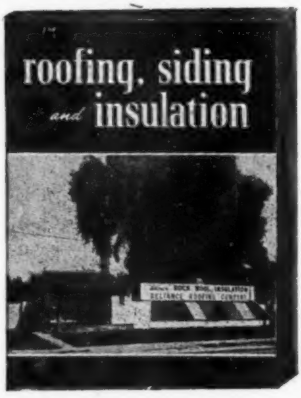
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EASTERN ASBESTOS CO. LIMITED

Eastern Asbestos Co. Limited, 619 St. James Street, Montreal, P. Q., is developing an 800 acre property in Portland Township, Papineau County, P. Q., which is located twenty-four miles from the town of Buchingham. The Company also owns a 700 acre property in Coleraine Township, Megantic, P. Q., approximately 15 miles from Thetford Mines. Drilling and tunnelling at the Portland-West property started on October 4, 1954, and has disclosed an ore body of commercial significance. Fibre is of the "ARIZONA TYPE", commonly referred to as "iron free," asbestos. ARIZONA Asbestos commands a price premium in the market, and is in short supply.

This type of asbestos, because it is iron free, is in demand in a multitude of applications where iron, even in minor amounts, causes problems. The product is in wide use in the electrical, plastics and food processing industries.

The Company plans to push development on the Portland-West property to prove up sufficient ore to justify construction of a mill. The company anticipates no problems in disposing of its premium grade Arizona Type Asbestos fibre.

The company's product, when marketed, should have the lowest iron content of any asbestos fibre now being produced in Canada, and should be equal or superior, in this respect, to much of the fibre being produced in the State of Arizona.

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HONOR MAN HIRED BY H. W. JOHNS IN '95

Stuart Glenn Meek, who was employed by one of the J-M founders, H. W. Johns, in 1895, was honored May 20th on the 60th anniversary of his association with J-M by a group of old friends and company executives at a luncheon held in New York City.

Mr. Meek retired in 1942, after 47 years of service with the company. His J-M career was closely identified with the history and growth of the modern electrical business, and he became Manager of the company's Electrical Department.

He is credited with introducing some of the first electrical protective devices on such projects as the New York City elevated and subway transportation systems and in the Pennsylvania and Grand Central terminals in New York City.

Although Mr. Meek is now 84 and has been retired for 13 years, he is still recognized as "Mister J-M" in the Altoona, Pennsylvania area by J-M. salespeople, customers and businessmen.

ASBESTOS CORPORATION LIMITED

Asbestos Corporation Limited's sales staff in England has been strengthened by the addition of Mr. Pierre Marcotte who sailed from Quebec on June 8th to assume his new duties abroad.

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Low Iron Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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AMERICAN BRAKE SHOE CO.
Elects New Director

William C. Denison was recently elected to the board of directors of American Brake Shoe. Mr. Denison is president of the Denison Engineering Company which was recently purchased by American Brake Shoe Company.

A pioneer in the development of hydraulic power for industry, Mr. Denison organized the Denison Engineering Company in 1931. Denison is a large manufacturer of low-tonnage hydraulic presses, and a leading supplier of hydraulic components such as pumps, fluid motors and controls.

ASBESTOS STOCK QUOTATIONS

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

		June 1955		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	37½	39⅞	38
Amer. Br. Shoe (Pfd.)	100	103	106	106
Armst. Ck. New (Com.)	1	30¼	33	31⅛
Armst. Ck. (Pfd.)	np	97	100	100
Asbestos Corp. (Com.)	pp	38¼	44¼	42¾
Carey (Com.)	10	30⅛	31⅝	30⅝
Cassiar Asb. Corp.	np	$8.85	$9.60	$9.20
Celotex (Com.)	np	29⅝	34⅜	34
Celotex (Pfd.)	20	19⅜	19¾	19⅝
Certainteed (Com.)	1	27⅝	29⅞	28¾
Dominion Asb. Mines	1	21¼c	28½c	22c
Flintkote (Com.)	5	40¼	44¼	42½
Flintkote (Pfd.)	up	102½	105	102½
Johns-Manville (Com.)	np	83¾	90¾	86¼
Natl. Gypsum (Com.)	1	49	50⅜	50
Natl. Gypsum (Pfd.)	np	103½	103¾	103¾
Pabco Products (Com.)	np	25⅝	29¾	29¾
Pabco Products (Pfd.)	100	96	100½	100½
Ray-Man (Com.)	np	50¼	53½	51⅝
Ruberoid (Com.)	1	37¼	40¾	38½
Thermoid (Com.)	1	10⅜	11⅝	10⅝
Thermoid (Pfd.)	50	44	46½	45¾
Union Asb. & Rub. (Com.)	5	8⅝	9	8¾
United Asb. (Com.)	1	$6.00	$7.65	$$7.50
U. S. Gypsum (Com.)	20	271	285	280½
U. S. Gypsum (Pfd.)	100	180	181½	180½
U. S. Rubber (Com.)	5	47¾	51⅜	48¼
U. S. Rubber (Pfd.)	100	169	172¼	171½

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FRICTION MATERIALS STANDARDS INSTITUTE, INC.
Annual Meeting — Election of Officers

At the Annual Meeting of the Friction Materials Standards Insitute, Inc., held on June 7, 1955, the members elected the following officers for the year starting July First.

President—*William J. Nanfeldt*, World Bestos Corporation

Vice-President—*Leo S. Sullivan*, The Russell Manufacturing Company

Treasurer—*Vincent A. Spina*, Scandinavia Belting Company

Secretary—Miss Harriet G. Duschek

Other members of the Board of Directors, serving with these officers are:

John R. Heath—Grizzly Mfg. Company.

Frederick C. Weyburne—Marshall-Eclipse Division, Bendix Aviation Corp.

William J. Vachout—Molded Materials Division, Carlisle Corporation

Franklin A. Miller—Raybestos-Manhattan, Inc.

Howard N. Wilhelm—RiteSet Mfg. Company.

CURRENT RANGE OF PRICE

As of July 10, 1955

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude (soft)	$1,600.00	to	$1,700.00
No. 2 Crude (soft)	1,000.00	to	1,050.00
No. 3 Crude (soft)	450.00	to	500.00
Filter Fibre (soft)	250.00	to	450.00
No. 1 Crude (semi-soft)	1,200	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi-soft)	400.00		
Canada—	Per Ton 2000 lbs. f.o.b. Mine		
Group No. 1 (Crude No. 1)	$1,100.00	to	$1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00	to	1,000.00
Group No. 3 (Spinning Fibre)	300.00	to	525.00
Group No. 4 (Shingle Fibre)	150.00	to	200.00
Group No. 5 (Paper Fibre)	100.00	to	140.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	35.00	to	70.00
Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 3 (Spinning & Filtering)	$ 321.00	to	$ 348.00
Group No. 4 (Shingle Fibre)	156.00	to	173.00
Group No. 5 (Paper Fibre)	109.00	to	132.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	37.00	to	68.50

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ASBESTOS CEMENT PRODUCT
Association Annual Meeting

E. J. O'Leary, vice president and general manager of The Ruberoid Co., New York, was elected President of the Asbestos Cement Products Association at its 18th annual meeting held June 21, in Absecon, N. J.

John W. Brown, vice presilent of the National Gypsum Co., Buffalo, N. Y., was chosen Vice President of the trade group, comprised of building materials manufacturers.

Re-elected were Treasurer, R. J. Tobin of the Tilo Roofing Co., Inc., Stratford, Conn., and Secretary, Chester C. Kelsey, New Canaan, Conn., who is also association manager.

Mr. O'Leary, who advanced from the post of Vice President, also was named a director and a member of the executive committee. He succeeds Ernest Muehleck, President of Keasbey & Mattison Co., Ambler, Pa.

A native of Philadelphia, Mr. O'Leary resides in Scarsdale, N. Y. He began his business career as a salesman for The Ruberoid Co., 29 years ago. He is a director of the company and a member of its executive committee.

Mr. Brown, a veteran leader in the building materials industry, was re-elected as an association director, along with Mr. Tobin, who also was named to continue on the executive committee. Others re-elected to the committee were W. R. Wilkinson of Johns-Manville Corporation, New York, and Stuart H. Ralph, The Flintkote Company of New York.

Mr. Wilkinson and Mr. Ralph were also re-elected as directors. Others selected to serve another term on the board were: past president Muehleck, L. W. Clarke, Philip Carey Mfg., Co., Cincinnati, Ohio, Stanley Woodward, The Ruberoid Co., and John H. Steiner, Supradur Corporation of New York.

RAYBESTOS-MANHATTAN, INC.
Change in Personnel

Raybestos-Manhattan, Inc., of Passaic, N. J., announces that *S. R. Zimmerman, Jr.*, a director and assistant general manager of the U. S. asbestos-grey rock division, Manheim, Penna., has been elected a vice-president, and *R. J. Gorecki*, factory manager of the Manhattan rubber division, has been named a director. *H. H. Burrows* has been appointed vice-president of rubber sales, and *R. B. Hazard* had been made sales manager of rubber and packing.

New Appointment at U. S. Rubber

John W. Kellar, has been appointed to special account development in the sales department of Sall Mountain Company of Hamilton, Ohio.

Mr. Kellar has an extensive background in sales promotion work connected with the radio and television industries, and will work out of the sales department on special assignments.

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MINING JOURNAL ANNUAL REVIEW NUMBER

The annual review number of the Mining Journal published in London (15 Wilson Street, Moorgate, London, E. C. 2) was issued in May and contained 300 pages. Many special contributed articles, reporting on the mining industry throughout the world during 1954 are among its contents. The contents can be roughly grouped as Metals, Mining and Metallurgical Developments, The World's Mining Fields, and Progress During the Year, covering the various mining fields.

KINLOCH ASBESTOS
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CONSOLIDATED COPPERMINES CORP. ACQUIRES INTEREST IN ROCKBESTOS

Consolidated Coppermines Corporation has acquired a controlling interest of approximately 84% in Rockbestos Products Corporation of New Haven, Connecticut, a manufacturer of highly specialized insulated wire and cables, through an exchange by a group of Rockbestos stockholders of their stock for shares of Consolidated Coppermines Corporation.

Consolidated Coppermines, a producer of copper with mines in Nevada, has its headquarters in New York City.

The acquisition of Rockbestos permits Consolidated Coppermines to enter the wire and cable field for the first time.It adds wire and cable manufacturing to the copper mining and metal fabrication operations as Consolidated Coppermines also owns a controlling interest in The Titan Metal Manufacturing Company of Bellefonte, Pennsylvania, manufacturer of brass and bronze products.

It is intended to continue to operate Rockbestos as a separate company under its present name, *Chester D. Tripp*, President of Consolidated Coppermines, said. Long-range plans call for expanding the Rockbestos operations.

"Adding Rockbestos to our organization permits us to diversify in a field closely allied with our other activities," said Mr. Trippe. "The excellent reputation of Rockbestos in its industry will be maintained, and we fully intend to explore the expansion of its operations."

Carl B. Ely, *H. Bissell Carey*, *H. O. Anderson*, and *W. C. Armstrong* are continuing on as Directors of Rockbestos and have been joined by *Chester D. Tripp*, President of Consolidated copper mines, who will serve as Chairman, *W. W. Steg*, President of Titan, *C. L. Steegar*, Vice President and Secretary of Consolidated Coppermines, and *C. C. Garrigues, Jr.*, member of the firm of White & Case, consul.

The officers of Rockbestos are: *Carl B. Ely*, President, *H. O. Anderson*, Vice President in charge of sales, *C. L. Steegar*, Vice President, *W. C. Armstrong*, Secretary and Treasurer, and *L. W. Smith*, Assistant Secretary and Assistant Treasurer

RAYBESTOS-MANHATTAN, INC.

S. R. Robinson, advertising manager of Grey-Rock Division, Raybestos-Manhattan, Inc., was elected president of the Automotive Advertisers Council.

He succeeds C. H. LeFevre, sales manager Replacement Division of Sealed Power Corporation.

IMPEX

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ASBESTOS

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TAPES
CLOTHS
PACKINGS
ROVINGS
TUBING
WEBBING
CLOTHING
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J-M TO BUILD PLANT AT NORTH BAY

In June Johns-Manville started construction of a large new insulating board plant at North Bay, Ontario and expects to start production before the end of 1956.

The plant will have an initial annual capacity of 75 million square feet of insulating board and will cover an operating floor space of about 150,000 square feet. About 300 men will be employed at the start with an annual payroll of more than $1,000,000, and provision has been made in construction plans for future expansion which the company believes will be required.

The North Bay operation will be part of Canadian Johns-Manville Company, Ltd., a wholly-owned subsidiary of Johns-Manville Corporation. It will the first insulating board plant built in the Province of Ontario and thus brings a new industry to the area.

A long-term timberlands lease has been arranged with the Province of Ontario covering the pulpwood rights to 577 square miles of timber limits in the Latchwood-Timagami area. In addition, the new plant will purchase pulpwood from the neighboring farmers and timber growers.

Among the J-M Insulating Board products to be manufactured at North Bay will be natural finish building board, decorative ceiling panels and wall plank, insulating board sheathing.

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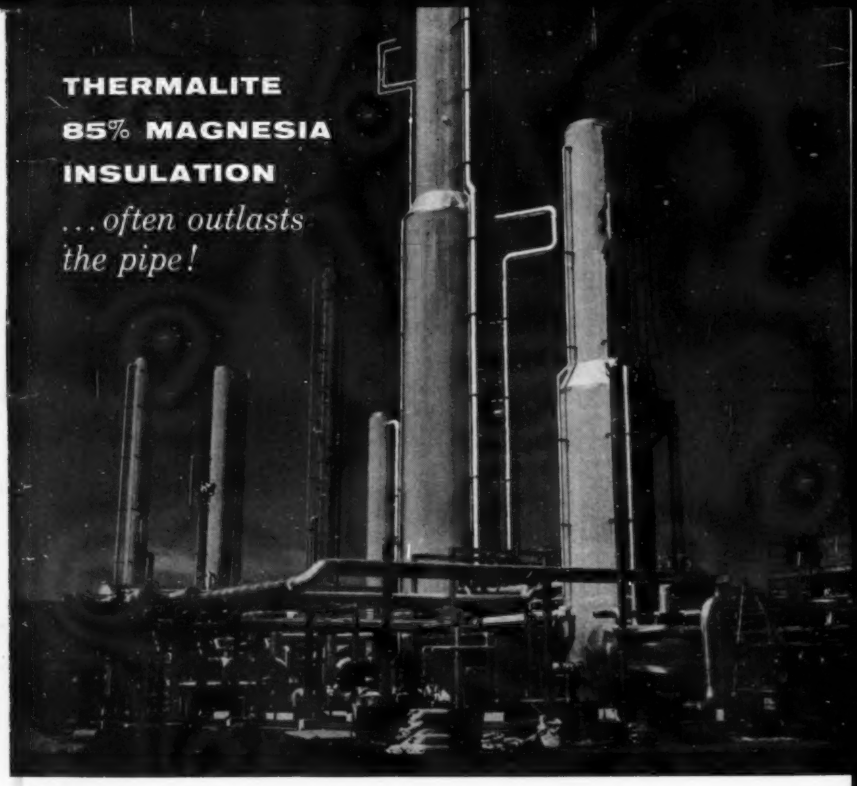
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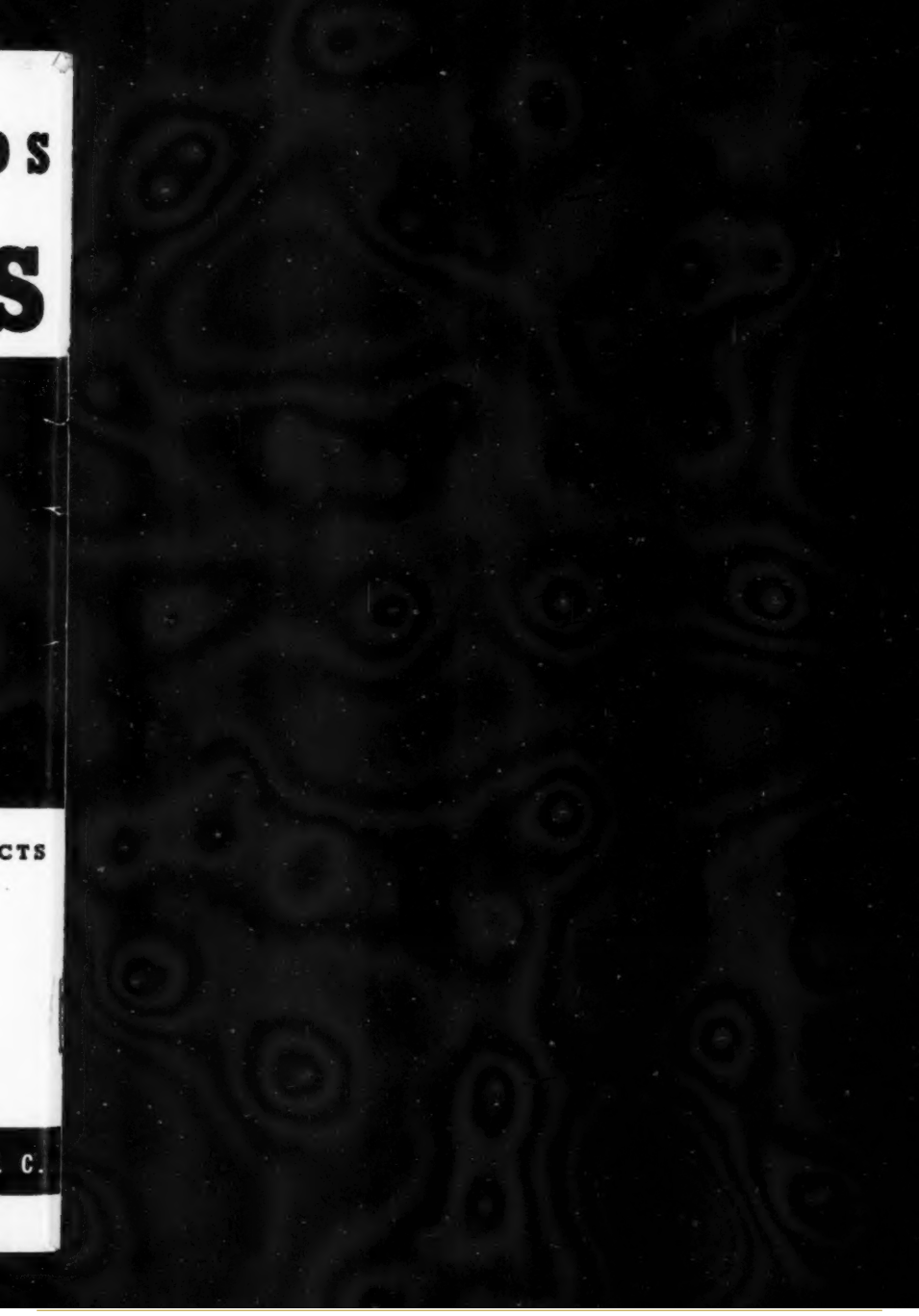
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