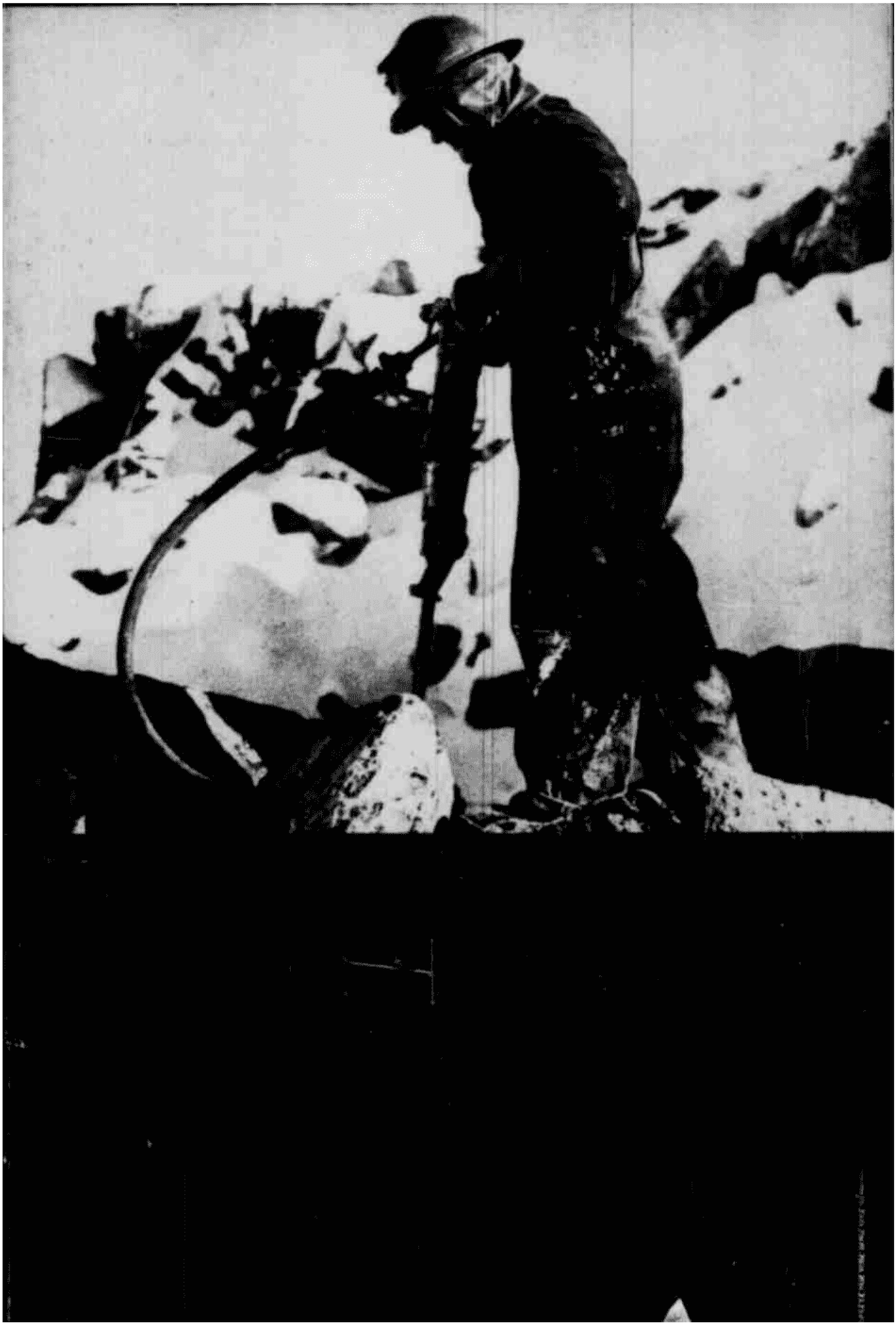


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ASBESTOS

VOLUME 47 AUGUST 1965 NUMBER 2

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ASBESTOS MINING SYSTEMS

By: W. E. Sinclair, M.I.M.M., Consulting Engineer to Puttens Asbestos Corp.

At first glance at the above title one would naturally question the difference in asbestos mining and other methods employed in the extraction of ores from mineral deposits. Actually there is little difference in practice in either surface or underground methods. In either case, it is mainly a matter of the choice of an economic system which, in asbestos mining, is mostly influenced by the question of ground support since, (as is well known) the use of timber in any mining method is to be avoided.

Most massive deposits exposed at the surface naturally lend themselves to open cut methods of extraction when physical conditions permit and as long as operations can be continued economically. However, open cut work must ultimately have recourse to underground mining when the limit of economical surface exploitation is reached.

The question of ground support and the use of timber obviously does not enter into the surface category.

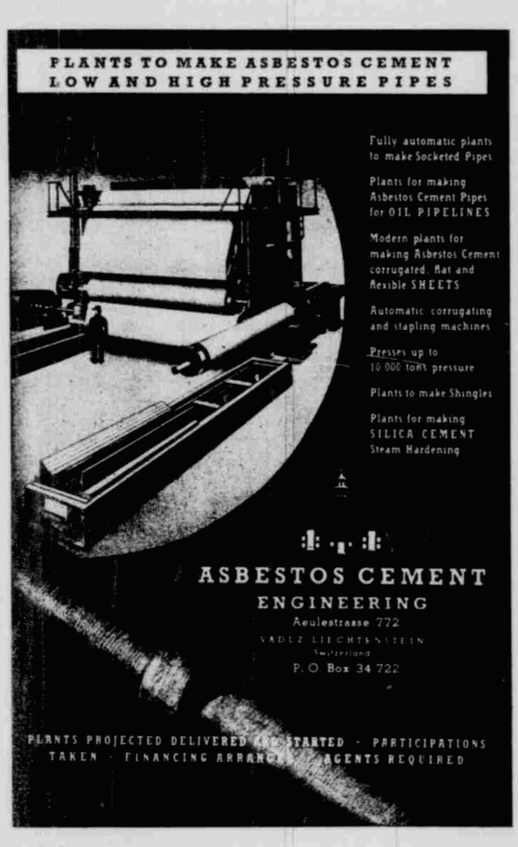
Underground Methods In Massive Deposits

The ultimate switch to the underground extraction from massive deposits, surprisingly enough, does not often involve the crucial question of ground support and the use of timber. It involves rather a question of the choice of an economic system depending on the form of the orebody and local conditions.

The common various forms of caving systems employed today nevertheless demand careful deliberation because of the many different conditions affecting efficient recovery consistent with calculated requirements and safety measures.

Chrysotile deposits in serpentine having a relatively large horizontal area are a more common type but, in general, constitute a somewhat unstable formation because of the friable nature of the serpentine rock structure. This is usually the main factor that presents a problem in the matter of selecting one or other of the conventional methods of working applicable to deposits of this type.

In these circumstances, it may not be unusual to consider a modification of one or a combination of two meth-



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ods; indeed, there are many ramifications in current practice including special aids as a means to an end to suit the requirements of any unique or peculiar physical conditions.

The form of the orebody, as far as width and dip goes and tonnage output demands, are pertinent points that directly influence the choice of a system. The operational methods proposed must include consideration of the question of mechanization which also depends on the tonnage output planned and the estimated working costs.

Broadly speaking, the choice of a suitable system of mining resolves itself into the general principles that govern the adaptability of special methods which, in the conditions outlined above consist mainly of shrinkage stoping, sub-level stoping and panel or block caving.

Shrinkage Stoping—This system, in its widest sense, depends for successful application on being able to leave most of the broken ore in a stope, only sufficient being drawn off to allow men to work at the face (usually "overhand"). Besides serving as a support for the men and machines drilling at the face, the broken ore provides a temporary support against the collapse of the walls. Obviously, the walls should be moderately strong, otherwise, as the ore is withdrawn dilution of the ore takes place and eventually, when all the ore is removed, caving will cause blockages in the ore-passes and chutes; also, ultimately these conditions may adversely affect the mine workings in the whole area adjacent to the stope in question, when all the ore has been extracted.

Under suitable physical conditions, this method is an efficient and economical means of extraction without the need for timber or other forms of ground or wall control. For this reason, shrinkage methods are often combined with panel and sub-level stoping in a modified form. It is also successfully applied in many lode mining methods.

Sub-Level and Panel Stoping—These systems include a great variety of methods, each designed to satisfy the peculiar conditions pertaining to any particular body.

In its simplest form, the principles employed consist essentially of limiting cut-off stopes carried up on both hanging- and footwall in conjunction with a horizontal

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connecting undercut, carried on a so-called "mining level" situated at some arbitrary height above a grizzly level. The ground between is undercut and either broken from small blasting drives and raises or is broken down by long hole blasting.

The size of the blocks attacked by either of these methods depends entirely on local conditions and, if suitable, shrinkage methods are employed as ground support where necessary.

Caving Systems—There are several variations of caving methods of mining which, if not commonly employed, are used in places where other methods are ineffective. The best known of these may be classified as sub-level or panel caving and block caving*. The details of the methods employed in each case vary somewhat but in general, the modus operandi is essentially the same. The basic principle depends mainly on the instability of the rock formation that constitutes the orebody. The inherent rock stresses in the formation allow certain blocks of predetermined size to cave and crush the ore into fragments that can be easily handled. Thus by its own weight, due to these compressive stresses, the whole block of ore is ultimately broken up and gravitated down to draw points from which it is loaded into trucks. For this reason the term "gravity system" is applied to many forms of caving methods, where the crushed ore is delivered in this manner with little blasting and the minimum of handling operations.

There are two main obstacles in the adoption of any caving method, first, the petrographical character of the ore must be of a nature in which fractures or cleavages will assist in the crushing effect. Secondly, no timber supports should be necessary at all. Primary development openings below the caving blocks are usually controlled by means of steel or concrete supports.

All caving systems in massive deposits have attained a high degree of operating efficiency combined with a remarkable safety record. Where applicable, even on a small scale, block caving stands out as being a system that produces the maximum tonnage per standard unit of any common yardstick. In terms of unit costs, the economic advantage of the system is illustrated by a low cost which is generally less than a quarter of most other methods.

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Underground Methods In Tabular Deposits

Methods of working lode or tabular orebodies are innumerable. As it happens, however, asbestos does not occur to any great extent in the form of lodes. Sedimentary chrysotile deposits and the crocidolite and amosite formations are amongst the more common types. In these lode-like orebodies, the selection of different forms of extraction is somewhat limited by the old question of ground support.

Generally speaking, the system of mining employed on most of these tabular orebodies depends mainly on the physical characteristics of the formation and the width and dip of the orebody.

Choosing one of the many different systems that might be effective in any given orebody needs mature thought as to likely unit working costs since asbestos must be regarded as a low priced mineral and elaborate methods are likely to be costly. Similarly, selection is narrowed down by the fact that timber cannot be used in any form. Another factor is that changing conditions in any orebody (and this is not unusual) may necessitate the adoption of one or more conventional systems or, in extreme cases of physical irregularities, recourse may be had to employing any method of expediency.

In modern mining practice, all primary main level openings are carried in the country rocks underlying the orebody where the method of stoping conforms to this system. Similarly, secondary development openings are planned from the primary levels to tap the stopes by means of stope drives, raises or ore-passes according to the dip of the orebody and the system of stoping.

Each orebody and sometimes every stope in a mine is a problem in itself except where the physical characteristics are regular and a routine system can be employed. The term stoping has come to include (besides ore breaking) the handling of broken ground, transport, ground support and so on. Any general considerations, therefore, must be simply an enquiry into the widest principles governing the adaptability of methods that combine efficiency with economy.

*"Underground Mining in Canadian Asbestos Mines", by the Author—in "ASBESTOS", July 1959.



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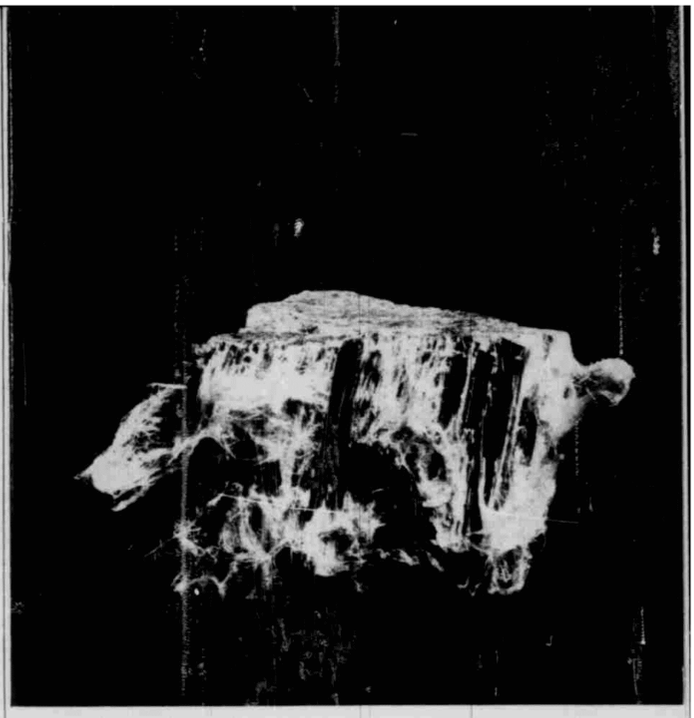
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EDWARD J. BUCZKOWSKI, a consultant for Certain-teed Products Corporation, died suddenly at his residence in Ambler, Pennsylvania, July 18th, 1965. Mr. Buczkowski, who was born in Whiting, Indiana, joined Keasbey and Mattison Company in 1926 as a quality control engineer, became assistant to the vice president in charge of manufacturing in 1944, director of manufacturing and elected to the board of directors in 1950 and elected vice president of production in 1958. At the time of the merger of K&M with Certain-teed, Mr. Buczkowski joined Certain-teed as a consultant. He will be greatly missed by his many friends and associates in the Asbestos Industry.

W. A. BUSCH, Assistant to the Vice President of Research, Engineering and Manufacturing since 1963 for THE PHILIP CAREY MANUFACTURING COMPANY, has retired from active service effective July 1, 1965. Entering the manufacturing phase of the building materials industry in 1926, Mr. Busch joined Carey in 1943 as Manager of Control and Inspection at the Cincinnati plant, named Quality Control Manager of all Carey building products plants in 1944, Plant Manager at Cincinnati in 1950 and Manufacturing Manager for all Carey building products plants in 1959.

ATI GENERAL MEETING—"Canadian asbestos producers can face the future with confidence because of the new uses that are constantly being developed for the mineral." This statement was made during the June 1965 general meeting of the Asbestos Textile Institute at Thetford Mines by J. A. Brown, Jr., President of ATI. He was addressing members of the institute that are United States textile manufacturers of spinning-grade asbestos fibre. The asbestos textile experts, numbering 76 in all, stayed in Thetford hotels, toured asbestos-mining operations and attended business meetings. Among the topics discussed at the meeting were industrial hygiene, sales promotion, production developments and methods of fibre analysis.

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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 MAY 1965: total 986,043 (passenger cars 832,694; trucks and buses 153,349). The total for MAY 1964 was 875,727. The figure for the first five months of 1965 was 4,971,083 compared with 4,349,869 for the same period 1964.

ASTM—Fifth Pacific Area National Meeting and 4th West Coast Materials Testing Exhibit, Olympic Hotel, Seattle, Washington, October 31st through November 5th, 1965.

ASTM—Committee D-9 on Electrical Insulating Materials, Netherland Hilton Hotel, Cincinnati, Ohio, October 18th through 20th, 1965.

ASTM—Committee D-13 on Textile Materials, Barbizon-Plaza Hotel, New York City, October 19th through 22nd, 1965.

ASTM STANDARD—Specifications for Asbestos-Cement Fiberboard Insulating Panels, C 551 - 64 T is available from ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103 (65c each; minimum order $1.00).

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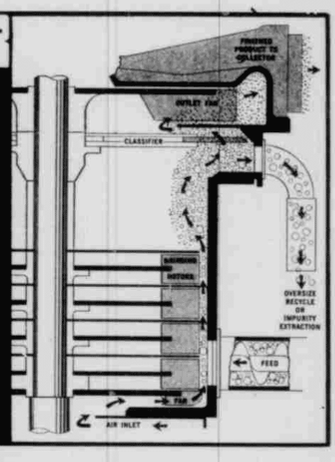
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Building

JUNE 1965 construction contracts showed continued strength in nonresidential building and further improvement in housing, it was reported by F. W. Dodge Company, a division of McGraw-Hill, Inc. Total value of contracts for future construction was $4,624,662,000, up 3% from the same month last year. The gain in residential building during the month of June indicates that housing is now well along in its recovery from last year's downturn. A measure of the progress made since that time is that, after correcting for normal seasonal variation, contract value in June stands a full 8% above last year's low third quarter rate and 4% above the average rate for all of 1964. On a year-to-year basis, residential contract value rose 4% over last June's volume to reach 2,080,201,000. Single family houses and apartments rose 3% and 2% respectively, over year-ago totals, while nonhousekeeping posted a large 23% gain. Nonresidential building continues to be the fastest growing segment of the construction market. Once again in June, most of the thrust was provided by the largest nonresidential categories; commercial, 21% over the year-ago amount; manufacturing, a 14% increase; and, educational, ahead 35%. These gains were partially offset by losses in several of the smaller nonresidential building types. Altogether, nonresidential contracts amounted to $1,551,197,000, up 11% over June 1964. Contracts for nonbuilding work were 10% below the year-ago pace at $993,264,000. Several categories showed substantial gains (river and harbor development, gas utilities, communications systems, and missile and space facilities) but they were outweighed by sizable declines in dams, electrical utilities, and sewer and water systems. Streets, highway and bridge work increased 3% over last June's amount.

At the end of six months, total contract value amounted to $24,695,371,000, to lead last year's cumulative total by 2%.

IDCNA—Tenth Annual National Meeting, Waldorf-Astoria Hotel, New York City, October 10-14, 1965.



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U.S. BUREAU OF MINES new research development promises substantial reductions in the cost of determining the richness and size of a mineral deposit. It is a more efficient and flexible method of spacing drill holes from which ore samples are taken and analyzed to help determine whether mining a deposit will be profitable. In the past three years the new development has been thoroughly tested on copper deposits and will soon be tested on coal deposits. Descriptions of the new method, how it was evolved and tested are given in Report of Investigations 6634—"Design of Drill-Hole Grid Spacings for Evaluating Low-Grade Copper Deposits". A single free copy of the report can be obtained by writing the Publication Distribution Section, Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213. Requests for this publication should specify both its number and title.

BLACK LAKE, QUEBEC, the town that probably produces more asbestos per inhabitant than any other on earth, is 75 years old this year. To celebrate the occasion, the town has erected a huge 77-foot illuminated cross on a hill behind St. Desire Church. Weighing over 12,000 pounds, the cross gleams at night with blue neon topped by a red aureole. The arms of the cross have a 25-foot span., Completed in April 1965 and recently installed, the cross was designed and the installation supervised by Daniel Harton, project engineer for Asbestos Corporation and a Black Lake resident.

THE PRODUCERS' COUNCIL—Distribution problems, selection and purchasing influences, and packaging and warehousing will be subjects discussed by building products executives at the Producers' Council's 44th Annual Meeting and Chapter Presidents' Conference, scheduled for the Brown Hotel, Louisville, Kentucky, September 14th through 17th, 1965. "Many Ways to Market" is the theme of the meeting, which Program Chairman Donald R. Gray, The B. F. Goodrich Company, calls an exploration of the second phase of moving building products into the marketplace.

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MARKET CONDITIONS

General Business.

The excellent health of the economy during the first half of this year is evidenced by the uniformly fine earnings reports of leading corporations made public over the past few weeks. Many companies in widely diversified industries reported all-time record sales and profits while practically all were near previous peak levels. While there is some evidence of a levelling off in the rate of expansion of the economy, there is nothing to indicate an impending downturn in the near future. Auto production is slowing down due to model changeovers but steel production continues at a high rate. Sales of steel by the mills for future delivery show signs of some slackening and orders for durable goods showed a slight decline in June. The stock market continues to fluctuate rather sharply. Apparently stock prices have already discounted the rosy earnings reports of industry for the first half year and movement on the down side seems based on fears of expansion of military action in Vietnam.

Business prospects still look good for the remainder of this year.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during June 1965 totalled 110,906 tons, an increase of 9,311 tons or approximately 9% over the same period last year. Year to date shipments at 509,861 tons are running 32,140 tons or roughly 6% below those of 1964.

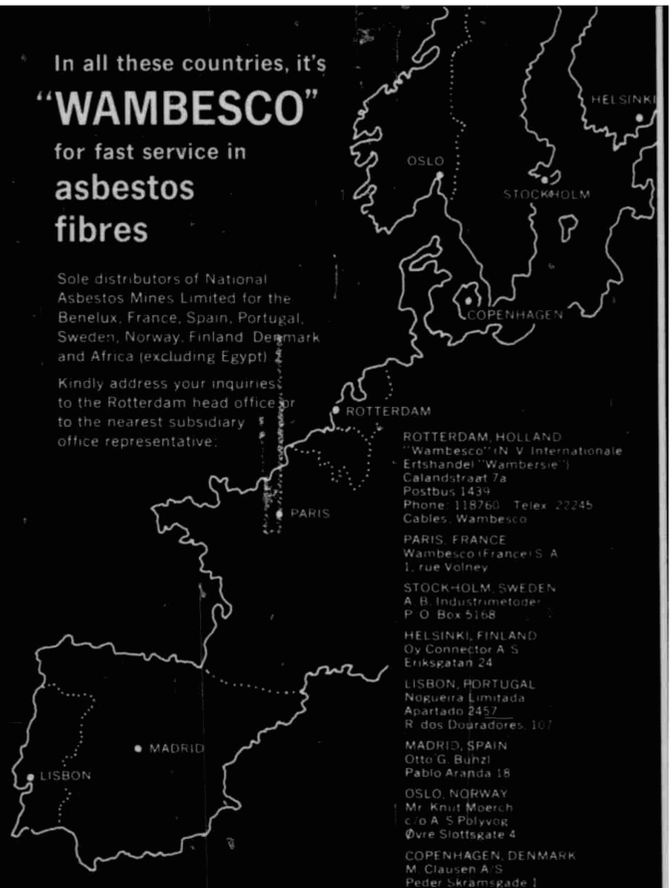
Asbestos—Manufactured Goods.

Asbestos Textiles. Recent Government purchases have tended to level out manufacturing operations which normally show a seasonal slow down at this time of year and as a result, asbestos textile plants are currently operating at a normal level. The Industry optimistically looks for 1965 sales to show improvement over the banner year of 1964.

In all these countries, it's
"WAMBESCO"
for fast service in
asbestos
fibres

Sole distributors of National Asbestos Mines Limited for the Benelux, France, Spain, Portugal, Sweden, Norway, Finland Denmark and Africa (excluding Egypt)

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"Wambesco" N. V. Internationale Ertshandel "Wambersie"
Calandstraat 7a
Postbus 1439
Phone: 118760 Telex: 22245
Cables: Wambesco

PARIS, FRANCE
Wambesco (France) S. A.
1, rue Volney

STOCKHOLM, SWEDEN
A. B. Industrimetoder
P. O. Box 5168

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Otto G. Bunzl
Pablo Aranda 18

OSLO, NORWAY
Mr. Knut Moerch
c/o A. S. Polyvog
Øvre Slottsgate 4

COPENHAGEN, DENMARK
M. Clausen A/S
Peder Skramsgade 1

FOR FURTHER INFORMATION
write National Asbestos Mines Limited, Thetford Mines, P. Q., Canada (Subsidiary of National Gypsum Company)

Gold Bond
ASBESTOS FIBRES

Asbestos Brake Lining. The present market condition is excellent and this situation should continue for the rest of the year.

Corrugated & Flat. The volume of business for both corrugated and flat sheets has been rising constantly through the first half of the year and this incline should continue through the third quarter.

High Pressure Insulation. This market is firm and should remain steady during the coming months.

Asbestos Cement Shingles—Roofing & Siding. The volume of business for this market remains steady and this condition should continue through to the end of the year.

Asbestos Cement Pipes. Demand continues to be strong for all types of pipe products. The outlook for the balance of 1965 appears favorable but shows some weak spots geographically.

Asbestos Filter Fibre. The Arizona filter fibre market is stable and the demand for low grades of Arizona white fibre is increasing. For the rest of the year, the domestic market is expected to remain stable, and an increase in foreign shipments is anticipated.

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

CAPE BUILDING PRODUCTS LIMITED exhibited Asbestolux "45" insulating board and Asbetolux Special Purpose board on Stand No. 148 at the International Fire Exhibition, Olympia, England, July 26-31, 1965.

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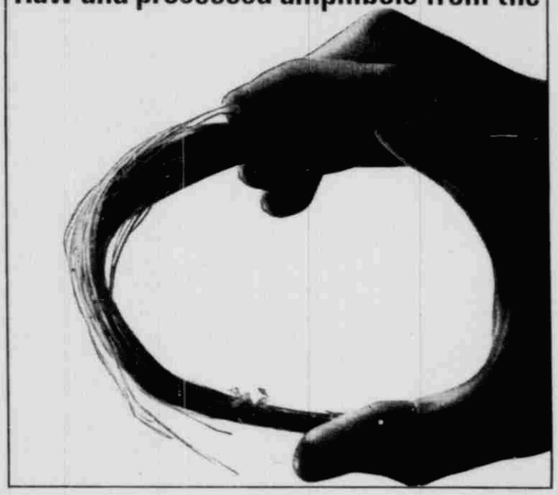
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PRODUCTION

British Columbia produced 67,460 tons of asbestos during 1964 valued at $11,714,494. (The Northern Miner)

Canada—According to the Dominion Bureau of Statistics, Ottawa, production of asbestos in Canada during APRIL 1965 amounted to 114,254 tons compared to 121,247 in APRIL 1964. Total for the first four months of 1965 was 329,512 compared to 351,841 for the same period in 1964.

Rhodesia—The Ministry of Mines and Lands, Salisbury, has issued the following statistics on asbestos for MAY 1965: Production 14,051.55 short tons, valued at £688,261.06.09d.

Asbestos in 1964 (annual Mineral Industry Survey)—Sales of asbestos from domestic mines reached an all-time high of 101,092 short tons in 1964 valued at $8,143,000, according to producers' reports to the Bureau of Mines, U. S. Department of the Interior. California surpassed Vermont in production, but Vermont Asbestos Mines Division of The Ruberoid Co. continued as the major producer of asbestos. U. S. imports for consumption (unmanufactured) during 1964 amounted to 739,361 short tons valued at $72,973,000. U. S. exports of unmanufactured asbestos amounted to 27,147 short tons valued at $3,199,000 and exports of asbestos products valued $16,288,000. Apparent U. S. consumption was 813,306 short tons. World production was estimated at 3,540,000 short tons.

Cassiar Asbestos Corporation has had the extremely pleasant experience of nearly doubling the known reserves of the Clinton Creek orebody. Recent drilling has shown there is a potentital of adding a further 12,000,000 tons to the already known tonnage which has been placed at 12,300,000 tons averaging 6% to 7% fibre content, or about $12.30 per ton. The Clinton Creek mine is located some 40 miles northwest of Dawson City, in the Yukon. Production planning envisages expenditures of $9-million to bring the mine in at a rate that will produce 40,000 tons of asbestos fibre annually. Mining will be by open pit methods, with a waste to ore ratio of 2.4:1. Three drills are now at work on the property and in all, five holes have been drilled on the main structure to date. Preliminary work in preparation for next year's main construction program is getting well under way. (The Northern Miner)

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MINES AND MILL IN GILA COUNTY

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IMPORTS & EXPORTS

Imports Into U.S.A.

((Published by Bureau of the Census) FEBRUARY 1965

Unmanufactured Asbestos: Short Tons

Amosite, Crude, Republic of South Africa	925
Crocidolite (Blue), Crude, Rep. of South Africa	573
Other Countries	2
Chrysotile, Crude, Canada	6
Zambia, Southern Rhodesia & Malawi	400
Chrysotile Spinning Fibers, Canada	1,551
Chrysotile, Other, Canada	41,838
Yugoslavia	1,015
Zambia, Southern Rhodesia & Malawi	302
Other Countries	1
Asbestos, Other, Canada	1,667
Finland	59
United Kingdom	12
	48,351
Valued at	$4,803,174

Manufactured Asbestos Goods:	Pounds	Value
A-C Pipes, Tubes & Fittings	3,184,127	$172,642
Asbestos-Cement Articles, Other	483,877	64,295
Asbestos Yarn, Sliver, Rope, etc. & Other		72,481
		$309,418

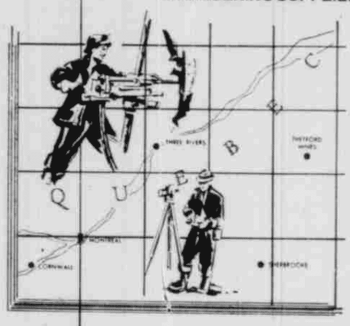
Exports From U.S.A.

(Figures by Bureau of the Census) YEAR 1964

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Argentina	11	Argentina	200	Argentina	19
Canada	160	Australia	711	Australia	102
France	15	Belgium	53	Bahamas	20
Guatemala		Brazil	76	Belgium	112
India	5	Canada	293	Brazil	45
Italy	138	Denmark	451	Canal Zone	5
Japan	84	France	19	Canada	323
Mexico	164	India	5,105	Colombia	270
Morocco	2	Israel	17	Ecuador	7
Mozambique	2	Japan	3,272	France	4

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SYNTRON VIBRATORY FEEDERS
RAYMOND WHIZZERS
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New Zealand ..	2	Korean Rep. .	494	Guatemala .	4
Portugal	6	Mexico	814	India	231
W. Germany ...	31	Netherlands .	115	Israel	44
	620	Rep. S. Africa	14	Italy	336
		Switzerland ..	8	Japan	6,460
		Taiwan	21	Korean Rep.	2,920
		U. Kingdom ..	125	Mexico 100,103	
		Venezuela ...	50	Nansei&Nanpo	8
		Viet-Nam	864	Netherlands	89,192
		W. Germany .	185	New Zealand	9
			12,887	Peru	20
				Philippines	30
				Spain	14
				Thailand ..	50
				Turkey	217
				U. Kingdom	69
				Venezuela .	47
				Viet-Nam ..	286
				W. Germany	194
					201,210

Total Unmanufactured Asbestos..214,717 Valued at..$3,161,996

Manufactured Asbestos Goods:	Production	Value
Cement & Pipe Covering .....Lb.	7,901,557	$ 1,599,039
Textiles & Yarn .....Lb.	1,061,331	793,071
Packing .....Lb.	1,977,433	2,773,436
Clutch Facing .....No.	2,046,247	1,840,560
Brake Lining (Mld. & S. Mld.) ..Lin. Ft.	1,263,117	576,773
Brake Lining, Other .....Lb.	6,033,415	4,231,724
Construction Materials .....Lb.	25,975,470	3,204,223
Asbestos Manufactures—Other	..	1,235,055
		$16,253,881

(Figures by Bureau of the Census) JANUARY 1965

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Canada 11		India 1,367		Japan	400
Japan 10		Japan	435	Korean Rep. .	490
	—	Korean Rep. .	50	Netherlands .	802
	21	W. Germany .	40	Viet-nam	50
			1,892	Other Ctys ...	1
					1,743

Total Unmanufactured Asbestos ....3,656 Valued at..$433,773

HIGHEST GRADE
CHRYSOTILE
ASBESTOS FIBRES

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Using modern mining methods in our fully integrated plant at Thetford Mines, Quebec, Flintkote produces the finest custom engineered chrysotile asbestos fibres for your discriminating requirements. Always at your service to give you technical assistance, and prompt delivery.

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Adam House, 1 Fitzroy Square
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New Zealand ..	2	Korean Rep. .	494	Guatemala .	4
Portugal	6	Mexico	814	India	231
W. Germany ...	31	Netherlands .	115	Israel	44
	620	Rep. S. Africa	14	Italy	336
		Switzerland ..	8	Japan	6,460
		Taiwan	21	Korean Rep.	2,920
		U. Kingdom ..	125	Mexico 100,103	
		Venezuela ...	50	Nansei&Nanpo	8
		Viet-Nam	864	Netherlands	89,192
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Construction Materials .....Lb.	25,975,470	3,204,223
Asbestos Manufactures—Other	..	1,235,055
		$16,253,881

(Figures by Bureau of the Census) JANUARY 1965

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DIVERSIFIED PRODUCTS FOR HOME AND INDUSTRY

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Manufactured Asbestos Goods:		Net Qty	Value
A-C Shingles & Clapboard	Lb.	266,399	$ 43,303
Other A-C or Fiber-Cement Items	Lb.	90,231	16,621
Asbestos Gaskets & Packing	Lb.	113,302	158,327
Asbestos Textiles & Yarns	Lb.	103,946	75,458
Asb Mfrs other than Friction Matls.		..	182,996
Asb Clutch Facings incl. Linings	No.	64,586	73,476
Asbestos Brake Linings	Lb.	230,141	189,880
			$740,061

(Figures by Bureau of the Census) **FEBRUARY 1965**

Unmanufactured Asbestos: Short Tons

Crude & Spinning		Non-Spinning Fibers		Waste & Refuse	
Italy	12	India	355	Canada	186
Japan	10	Japan	60	Czech.	200
W. Germany	13	Korean Rep.	109	Japan	432
	—	Mexico	20	Mexico	55
	35	Viet-nam	100	Netherlands	266
		W. Germany	116		
		Other Ctys.	6		1,139
			766		

Total Unmanufactured Asbestos .... 1,940 Valued at.. $221,899

Manufactured Asbestos Goods:		Net Qty	Value
A-C Shingles & Clapboard	Lb.	937,462	$ 108,135
Other A-C or Fiber-Cement Items	Lb.	1,859,265	198,657
Asbestos Gaskets & Packing	Lb.	159,410	298,537
Asbestos Textiles & Yarns	Lb.	66,359	41,548
Asb Mfrs. other than Friction Matls.		..	491,193
Asb Clutch Facings incl. Linings	No.	165,970	129,228
Asbestos Brake Linings	Lb.	317,954	243,624
			$1,510,922

Ontario Annual Report 1963 has just been issued and contains "Statistical Review of the Mineral Industry and Mining Operations for 1963" by G. S. Riddell. According to the chapter on asbestos, the production of asbestos in Ontario decreased 5.16% in quantity, from 35,551 tons in 1962 to 33,715 tons in 1963; the value of production decreased 5.52%, from $5,686,720 in 1962 to $5,372,645 in 1963. Paper-bound copies can be obtained through the Publications Office, Department of Mines, Parliament Buildings, Queen's Park, Toronto 5, Ontario, Canada ($1.00).

For the beneficiation of asbestos ore,
Modern HAZEMAG Impact Crushers
(Andreas System)



• Fiber-length protective opening of ore and crude.
• Opening of pressed asbestos.

Modern HAZEMAG Rapid-Dryers
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for drying pre-crushed asbestos-ores of various moisture contents with fibre-selecting effect.

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75 Beverly Street, Galt, Ontario
USA: Joy Manufacturing Company
333 Oliver Building, Pittsburgh 22, Pennsylvania
Australia: Noyes Bros. Pty. Ltd.
P.O.B. 1587, G.P.O. Sydney
South Africa: Industrial Machinery Supplies Pty. Ltd.
P.O.B. 9653, Johannesburg

Exports From Canada

(Published by Dominion Bureau of Statistics) MARCH 1965

Unmanufactured Asbestos:

	Crude	Milled (Short Tons)	Shorts (Short Tons)
United States	2	21,448	43,714
United Kingdom	..	1,476	1,080
South America	..	354	220
Central America & Mexico	..	2,015	170
Europe	..	2,209	663
Japan	..	637	503
Other Countries	..	2,765	705
	2	30,904	47,055

Total Unmanufactured Asbestos—77,961 Valued at—$8,650,789

Manufactured Asbestos Goods:

Asbestos Brake Lining & Facings	$ 28,497
Asbestos-Cement Building Materials	45,675
Asbestos Basic Products, Other	7,873
	$ 82,045

Unmanufactured Asbestos: APRIL 1965

	Crude	Milled (Short Tons)	Shorts (Short Tons)
United States	3	18,518	41,170
United Kingdom	..	4,717	3,125
South America	..	3,180	318
Central America & Mexico	..	1,764	275
Europe	2	4,655	4,406
Japan	4	1,772	4,789
Other Countries	..	10,279	1,216
	9	44,885	55,299

Total Unmanufactured Asbestos—100,193 Valued at—$11,714,105

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 35,600
Asbestos-Cement Building Materials	45,013
Asbestos Basic Products, Other	21,272
	$ 101,885

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. . . the world's largest exporters of felts for paper-machines . . . now offer the widest range of

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- Synthetic Content
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INDUSTRY NEWS

HAPPY BIRTHDAY

Richard B. Hazard, Vice President, Raybestos-Manhattan, Inc., Passaic, New Jersey, August 17.
Albert H. Fay, Vice President of Marketing, National Gypsum Company, Buffalo, New York, August 19.
R. G. Soothill, Chairman, Turner & Newall Limited, London, England, August 19.
C. H. Carlough, President, Carolina Asbestos Company, Davidson, North Carolina, August 20.
Orrin W. Clifton, President, Smith & Kanzler Company, Chicago, Illinois, August 22.
George Robinson, Secretary, Johnson's Company Limited, Thetford Mines, P.Q., Canada, August 30.
Allan E. Daly, Vice President in charge of Automotive Sales, Scandura, Inc., Charlotte, North Carolina, August 31.
Richard W. Hunt, Vice President, Asbestos Distributors, Inc., Port Chester, New York, August 31.
J. P. McCormick, Chairman, Turners Asbestos Cement Company Limited, Trafford Park, Manchester, England, September 2.
William C. O'Brien, General Sales Manager, Building Products Division, The Ruberoid Co., New York City, September 2.
Carl L. Eddins, Assistant Secretary & Assistant Treasurer, The Ruberoid Co., New York City, September 4.
W. A. Graham, Vice President, Reid Hayden, Inc., Charlotte, North Carolina, September 4.
R. L. Lanz, Vice President-Manufacturing, Pipe Division, Certain-teed Products Corporation, Ambler, Pennsylvania, September 5.
Frederick K. Sweeney, Vice President & General Manager, The Ruberoid Co., New York City, September 5.
J. L. (Jerry) Mitchell, Textile Consultant (retired Works Manager for H. K. Porter Company, Inc.), Charlotte, North Carolina, September 7.
F. M. Connell, Chairman, Cassiar Asbestos Corporation Limited, Toronto, Canada, September 9.
William H. Hill, Chairman, Executive Committee, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, September 9.
H. William Bentley, Sales Director, Australian Asbestos (Pty.) Limited, Marrickville, Australia, September 10.
W. Harold Connell, Director, Cassiar Asbestos Corporation Limited, Toronto, Canada, September 12.
James D. Bettridge, Vice President & General Sales Manager, Johns-Manville Corporation, New York City, September 13.
James Newton Caws, F.C.A., Director & Secretary, Beldam Asbestos Company Ltd., Hounslow, England, September 13.

RESEARCH DIRECTOR

An association of well established mining groups requires a Research Director to be responsible for initiating, investigating and development of product applications in the field of fibre technology. This is a new appointment based either in South Africa or Europe, and will provide opportunities for travelling throughout the world.

The duties include:

- **Conducting and supervising experimental work in a laboratory.**
- **Evaluating and assessing potential products.**
- **Reviewing reports and making recommendations on the technical possibilities of products for marketing purposes.**
- **Directing a central technical information and liaison function in the Association.**
- **Providing specialist technical advice to the Association.**

The main requirements for this position are:

- **A science or engineering degree.**
- **Previous experience in fibre technology allied to the paper, board, or asbestos/cement industries.**
- **An enquiring and imaginative mind with a practical bent.**
- **age 28 – 45.**

The starting salary offered will be dependent on the qualifications and experience of the successful applicant, but will be not less than £2,400 per annum. Generous travelling allowance and the usual fringe benefits.

Please write in strict confidence giving full details of qualifications and experience to:

Dr. H. A. Fabian, Appointments Division,
P-E Consulting Group S.A. (Pty.) Ltd.,
P.O. Box 8550, Johannesburg, South Africa.

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Robert W. Winson, Manager, Munro Mine, Canadian Johns-Manville Company Limited, Ontario, Canada, September 13.

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

Nicolet Industries, Inc. has announced the appointment of **Debco Products Company,** Herminie, Pennsylvania, as a service unit for the fabrication and sale of Monolithic asbestos-cement materials. Debco, headed and founded by Lee A. Pedley, thus joins the list of companies that have come to recognize Nicolet as a dependable supplier of high quality asbestos-cement electrical and laboratory furniture materials. They will fabricate Monobestos and Ebonized asbestos to the exacting requirements of the electrical industry and will serve the rapidly expanding market for Nicolet's new laboratory top material, KolorMate.

Regina A-C Pipe Plant—An initial investment of about $2,500,000 will be made in the construction of an asbestos-cement pipe manufacturing plant to be located near Regina, Saskatchewan, Canada. The plant was announced in a joint press release by Premier Ross Thatcher and J. C. Ryan, President of **Canadian Asbestos Company Limited,** a new firm formed by Regina businessmen. Construction is scheduled to start this fall with completion expected in the fall of 1966. The plant will be capable of producing 35,000 tons of asbestos-cement pipe annually. Mr. Thatcher said the government was providing some financial assistance through the Saskatchewan Economic Development Corporation to get the new plant operating.

Johns-Manville—Price increases in the J-M line of asbestos textiles were announced by E. H. Wells, Vice President and General Manager of the Packings and Friction Materials Division. Effective August 1, 1965, J-M prices will be advanced 8% on all commercial and underwriters grades of plain and wire-inserted asbestos cloth and commercial grades of plain and wire-inserted asbestos tape. The price increases do not affect premium grades of asbestos cloth, asbestos safety cloth, or aluminized cloth. The cloth and tape products in the announced price increase are used principally in the electric utilities, shipbuilding and metals industries. Mr. Wells stated that the price increases are being made to cover increased production costs.

BURGDORF K.G.
Importer of Raw Asbestos
P. O. Box 29, BREMEN, GERMANY



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Hugh W. Alderdice, 63, suffered a heart attack while driving his car and died Saturday, July 17th, 1965. Until his retirement three years ago, Mr. Alderdice was for 30 years a partner with his brother-in-law, Thomas J. Claxton, in the **Claxton Asbestos Company,** Buffalo, New York. The company has since been incorporated.

Johns-Manville—Realignment of Sales Districts within the J-M Distributor Sales Department have been announced. Major changes are the creation of two new sales districts, New Orleans, Louisiana, and Jacksonville, Florida, and the elimination of the current Atlanta, Georgia, and St. Louis, Missouri, districts through reassignment of these districts into adjacent areas. **Clyde T. Norman,** formerly Atlanta District Manager, is now New Orleans District Sales Manager. **William J. Christman,** formerly St. Louis District Manager, is now assigned as Jacksonville District Sales Manager.

Joseph Gauthier has been appointed Acting Superintendent of the open pit mine of **Canadian Johns-Manville Company.** Since he joined the company, Mr. Gauthier has progressively held various posts in the underground mine and since 1959 has been successively General Foreman and Assistant Superintendent of the open pit operation.

Simplicity Engineering Company has announced the appointment as Southeastern Sales Representative of **Stanley Ryan.** Mr. Ryan will be responsible for establishing and maintaining contact with the Simplicity dealer organization in the states of North Carolina, South Carolina, Georgia, Florida, Mississippi and Alabama. Headquarters for the southeastern office will be located in Atlanta, Georgia.

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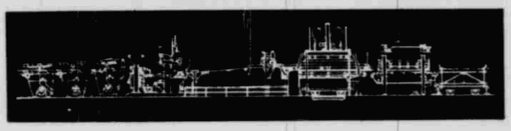
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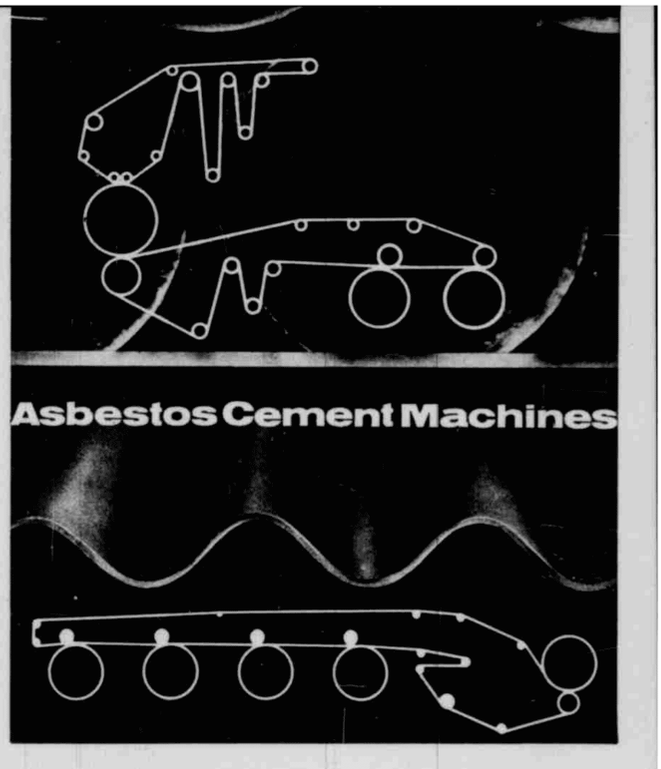
National Gypsum Company has appointed **Donald G. Hamme** as Director of Research and Development. Mr. Hamme will be responsible for all research and development activities and will headquarter at the company's Research Center in Tonawanda, New York. He will report directly to the president's office which is responsible for the coordination of these activities with the firm's operating, marketing and sales functions. Mr. Hamme assumes the duties of **Dean DeForest Crandell,** Vice President for Research and Development, who is retiring after 38 years with the company. In making the announcement, President Fred A. Manske gave credit to Mr. Crandell's past contributions stating, "His work in the many areas of research, manufacturing and sales has contributed greatly to the company's growth and prosperity."

R. G. Buergin has been appointed Director of Research Projects for **National Gypsum Company** and will be responsible for directing the corporation's product and systems development. He will report directly to the director of research and will continue to make his headquarters at National Gypsum's recently-expanded Research Center in Tonawanda, New York.

Virgil W. Cooprider has been selected for the newly-created position of Assistant to the Chairman of the Board of **National Gypsum Company.** Mr. Cooprider will assist the Chairman, Colon Brown, in a wide range of general administrative responsibilities and will be assigned special projects by Mr. Brown.

John L. Dwyer has been appointed District Sales Manager for the Los Angeles, California, sales district of **National Gypsum Company** and **David V. Ricketts** was appointed District Sales Manager for the Phoenix, Arizona, district. Also, **Bernard J. Tierney** has been appointed District Manager of National Gypsum's new sales district with headquarters in Albuquerque, New Mexico. The above appointments were announced by Rex P. Oleson, Southern Pacific Division Sales Manager. The recently-created Southern Pacific Division with headquarters in Long Beach, California, supervises the company's sales efforts in Albuquerque, Phoenix, and Los Angeles.

Orangeburg Manufacturing Company, a division of The Flintkote Company, has appointed **Marvin E. Simpson** as Sales Engineer, Flintite pipe, for Western Ohio, with headquarters in Bellbrook, Ohio. Prior to joining Orangeburg, Mr. Simpson was manager of the Simpson Granite Works, Inc. He also has been employed with Griffin Pipe Products Company and U.S. Pipe and Foundry Company.



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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

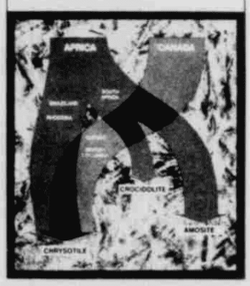
Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 370.00
Group No. 4 (Shingle Fibre)	176.00 to	296.00
Group No. 5 (Paper Fibre)	121.00 to	144.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	88.00
Group No. 7 (Shorts & Floats)	40.50 to	75.00

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TN3-17

Certain-teed—R. L. Lanz, Vice President—Manufacturing, of the Pipe Division of Certain-teed Products Corporation, has announced the appointment of **A. E. (Bert) Alpine** as Director of Engineering. Mr. Alpine has been associated with the asbestos-cement pipe industry for the past 16 years and was most recently the plant manager of the new Flintite pipe plant at Ravenna, Ohio.

Thomas J. Pilieger has been appointed Market Analyst of **Certain-teed Products Corporation** and will be in charge of studies and reports on the market potential for present and future company products.

Imperial Eastman—C. M. Fox, Secretary of The Cape Asbestos Company Limited, has announced the appointment of **A. W. Houston** as Managing Director of Imperial Eastman (U.K.) Limited.

Turner Brothers Asbestos Co. Ltd., Rochdale, England, a Turner & Newall company, has appointed **S. Kennedy** as Publicity Official.

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U. S. Rubber—The Textile Division of United States Rubber Company will set up a marketing organization in Europe for textile products. The organization will be headed by **Walter G. Pacht,** who has been appointed Commercial Director for European Textile Sales. He will be responsible for building new markets for fibers and textile products and will headquarter at the company's office in Geneva, Switzerland. The company currently sells textile products in Europe that are made in the United States or in European plants partly owned by U. S. Rubber.

U. S. Rubber Company has appointed **M. L. Whitefield** as District Sales Manager of allied and government sales for its Textile Division. He will be responsible for sales of the company's textile products within the company and to the government and will headquarter at U. S. Rubber's textile administrative center in Winnsboro, South Carolina.

Ruth Schandorff has been appointed Manager of Marketing Services for the Textile Division of **United States Rubber Company** and will be responsible for the division's advertising, retail and fashion promotion, merchandising and sales promotion programs. Miss Schandorff will report to Clarence H. Sigler, Director of Marketing, and will continue to headquarter at the company's general office in New York City.

WANTED

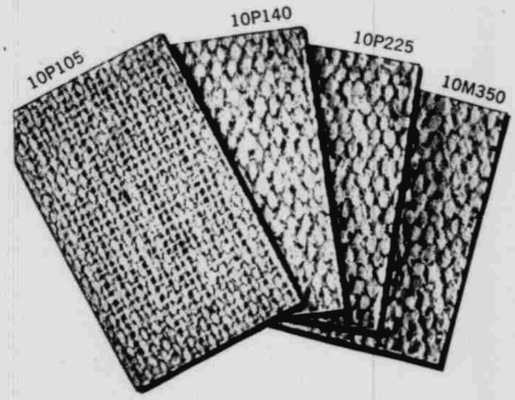
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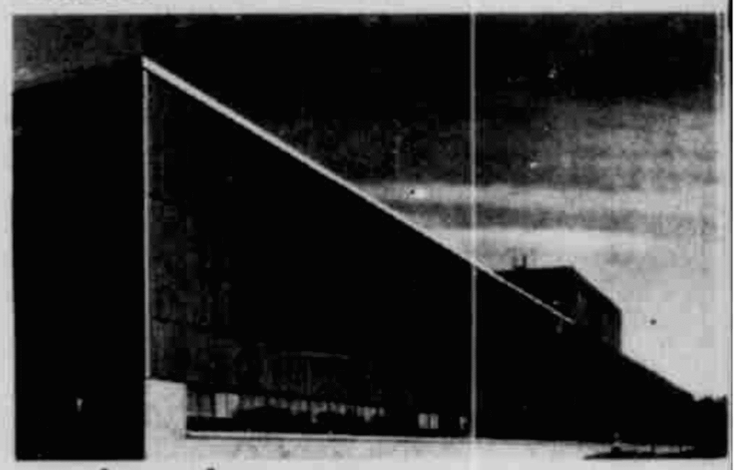
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