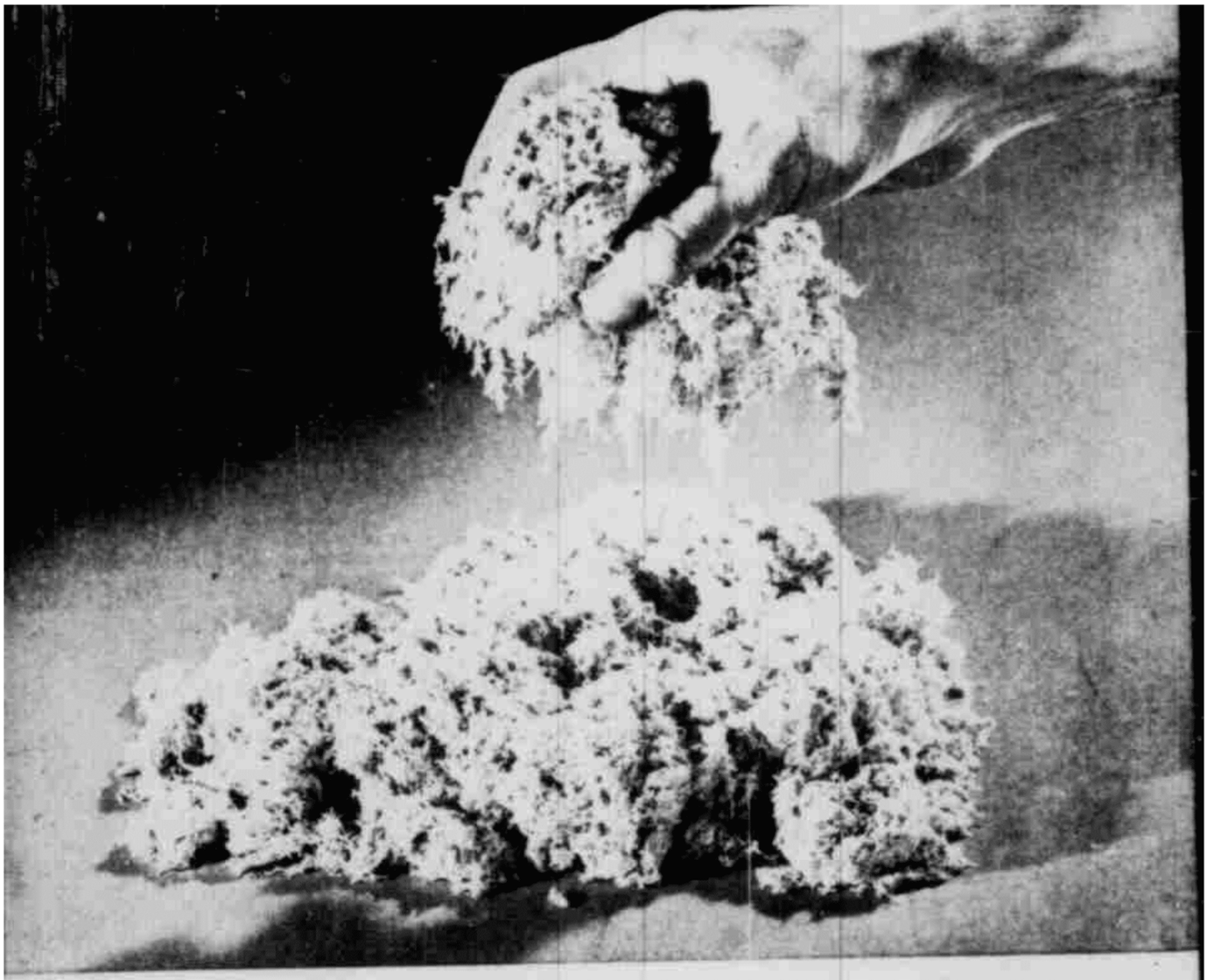


Canadian Milled Chrysotile Asbestos Fibre from the Thetford Mines District, Quebec

ASBESTOS

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MAY 1966

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ASBESTOS

VOLUME 47 MAY 1966 NUMBER 11

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BRITISH ASBESTOS INDUSTRY

By: C. Z. Carroll-Porczynski

Part I

(This is the first of four parts of the article "British Asbestos Industry" which has been written by Mr. C. Z. Carroll-Porczynski, a leading expert in the Asbestos Industry, for publication in ASBESTOS. The remaining three parts will appear in future issues.)

Although asbestos is not a recent discovery, the industrial use of this material dates back only a hundred years. Since its special qualities were first recognized, British firms have played a leading part in developing its commercial applications and this pioneering work is being continued in Britain today.

In Britain the mineral was brought to the notice of engineers by two Glaswegians, A. R. Robson and Walter McLellan, who in 1871 formed a company, the Patent Asbestos Manufacturing Company Limited, establishing works at Drummond Street, Glasgow. A few years later, another company, the Italo-English Pure Asbestos Company, of London, was formed; it secured extensive rights and established a factory in Turin.

All these companies were amalgamated in 1880 by the formation of the United Asbestos Company Limited, and extensive works were opened at Harefield, Middlesex. Thirty years later, in 1910, this company joined forces with Bell's United Asbestos Company, under the title of Bell's United Asbestos Company Limited. This combination became one of the largest asbestos manufacturers.

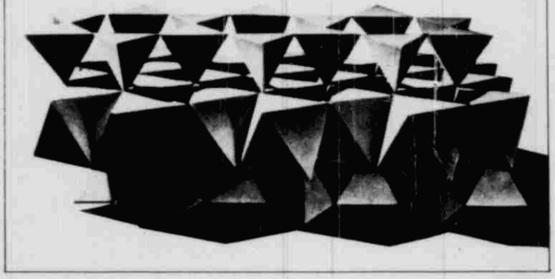
Growing Demand

Meanwhile, deposits of asbestos were discovered in the province of Quebec, Canada, about 1860, but no serious attempts were made to mine these deposits until 1878. The results of the first year's mining were not encouraging, only 50 tons being extracted, and even this small amount was only disposed of with difficulty. By 1884, however, the demand for asbestos had grown, and several companies had obtained rights. This centre became a source of supply for the rapidly growing industrial plants in the United States of America.

The continent of Africa is now the second most important source of supply of asbestos. Major quantities are

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Schematic representation of structure of Amosite and Blue Asbestos



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mined in the Republic of South Africa, Southern Rhodesia and Swaziland (including Bechuanaland and Basutoland).

The Cape Asbestos Company Limited, of London, played a big part in pioneering the mining and the uses of blue and amosite asbestos. This company was formed in London in 1893 to undertake the mining of asbestos in South Africa and the manufacture from it of thermal insulation materials (lagging) in Italy.

Blue asbestos (crocidolite) was originally discovered near Prieska in the Orange River Valley between 1803 and 1806, but no attempt was made to explore its commercial possibilities until 1891, when Francis Oats, a director of De Beers Consolidated Mines, formed the Cape Mineral Syndicate to exploit it, and this was followed two years later by the establishment of the company in London to operate on a broader basis.

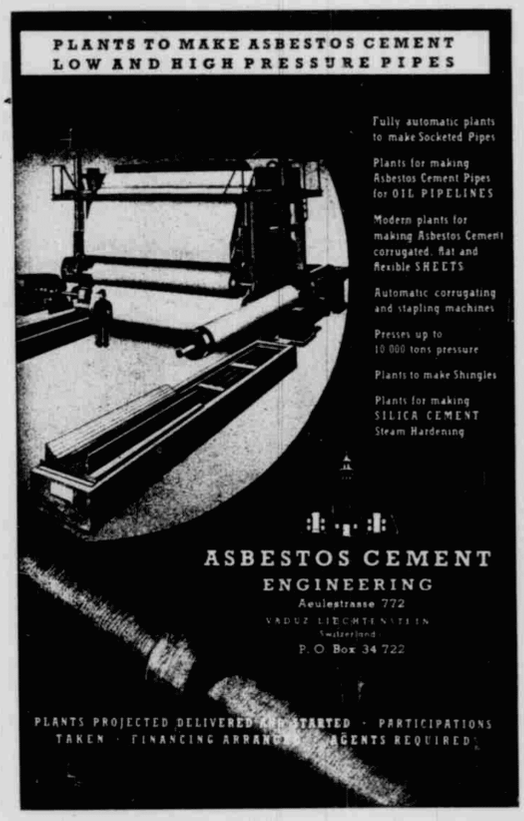
The first manufacturing enterprise was established in Italy, where acquaintance with the indigenous white asbestos provided a useful background of suitable experience upon which to base the development of outlets for the new material.

New Type Discovered

Then, in 1907, another type of asbestos was discovered, this time in the Lydenburg district in the Transvaal. This was unlike any previously discovered asbestos, ranging in colour from almost white to yellowish-brown, rich in iron, and containing long fibres. A few years later a small mining operation was developed and by 1917 large contracts were being obtained, among them a substantial delivery to the factory which in 1913 had been established by the Cape Asbestos Company at Barking in Essex, England. A distinctive name for the new fibre was coined in 1918 — AMOSITE — derived from the initials of the "Asbestos Mines of South Africa".

The long, stiff, rigid fibre of amosite, while unsuitable for easy spinning and weaving, proved to be ideal for insulating materials. Today it is used exclusively in the Cape Group's "Caposite", "Asbestolux" and "Marinite" products, and in "Caposil" calcium silicate materials.

To secure its source of supply of this increasingly important raw material, in 1925 the Cape Asbestos Company



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completed negotiations for the purchase of the amosite mines owned by Egnep Limited and Amosa Limited (Egnep being the reversal of Penge, the name of one of the farms on which land the original discoveries were made)

Although there are deposits of blue asbestos in Australia and Bolivia, the greater part of the world's production comes from South Africa, and the Cape Asbestos Company is the largest single producer of this type. It is also by far the largest supplier of amosite, all the known deposits of which are in the Republic of South Africa. The current production of both types of fibre mined by the company exceeds 100,000 tons per year.

Production of raw asbestos fibre from its own mines in South Africa is still a basic activity of the Cape Asbestos Group.

The marketing of these fibres is the responsibility of Cape Asbestos Fibres Limited, a subsidiary of the Cape Group, which not only supplies the Cape manufacturing subsidiaries in Great Britain and overseas but also manufacturing licensees throughout the world, and a wide range of other users in such industries as asbestos-cement, heat insulating material, insulation board, moulding compounds, plastic reinforcements, asbestos textile products, and so on.

Leading Producer

Turner and Newall Limited, of Manchester, Lancashire, England, is another British firm recognized as a leading producer of raw asbestos and asbestos manufactured products. Turner and Newall companies are engaged in mining crude asbestos fibre from large deposits in Rhodesia, Swaziland, the Transvaal (South Africa), and the Province of Quebec (Canada), and are also controlling the sales of chrysotile asbestos from Cassiar mines in British Columbia.

Turner and Newall Limited was formed in 1920 by the amalgamation of four companies: Turner Brothers Asbestos Company Limited, of Rochdale, Lancashire; Newalls Insulation Company Limited and the Washington Chemical Company Limited (both of Washington, County Durham, and now amalgamated as Newalls Insulation and Chemical Company Limited), and J. W. Robert Limited, then of

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Leeds, Yorkshire. These companies had been closely associated for many years, having common interests in asbestos and insulation.

Turner had adapted its textile machinery to manufacture asbestos cloth and steam packings, building up a flourishing business since the formation of the company in 1870. It became a supplier of asbestos goods to other companies, among them Newalls Insulation Company and J. W. Roberts. Both these were prominent in the field of insulation materials, Newalls with a range of products for applications as diverse as cold stores and power stations, J. W. Roberts with its successful limpet mattresses for locomotive boiler lagging. The Washington Chemical Company was active in the production of insulation materials from magnesia chemicals, as well as supplying chemicals for many pharmaceutical and industrial uses.

The amalgamation began a period of expansion and evolution which has continued to the present day. Ferodo Limited was the first newcomer in 1925. Turners Asbestos Cement Company Limited was incorporated in 1929. British Industrial Plastics Limited and Stillite Products Limited were acquired in 1961. Turner and Newall Limited now consists of more than 20 companies, many of them overseas. Its assets total more than £100,000,000.

Chance Meeting

The third British firm operating on a world-wide basis is British Belting and Asbestos Limited, Cleckheaton, Yorkshire. The origin of this firm can be traced back to a chance meeting between an Englishman and a Scotsman in Sweden in 1878. The Scotsman, William Fenton, was working in Sweden on the development of an industrial idea and the Englishman, W. Willson Cobbett, was on a business visit to Scandinavia. This meeting led to a partnership which developed into the firm now known as British Belting and Asbestos Limited (B.B.A.) whose products are known throughout the world.

In 1897 this initial partnership was turned into a joint stock company known as W. Willson Cobbett Limited and its main object was the manufacture of transmission belting. The business expanded rapidly and, in 1901, the

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now well-known Scandinavia Mills were opened at Cleckheaton. In 1909 the company had become interested in the manufacture of friction fabrics and developed the patent bevel woven clutch liner which was adopted by several leading motor manufacturers, including Rolls-Royce Limited.

Further progress resulted when the company originated the transmission linings used on the famous, and now historic, Model T Ford cars. Millions of feet (metres) of linings were supplied to the Ford Company of America and, as a result, Scandinavia linings became a household word with users of Ford cars all over the world. The demand for these materials became so large, in fact, that in 1920 a branch factory was opened in America. A number of skilled B.B.A. workpeople crossed the Atlantic to establish the factory on a sound basis and it has been operating successfully ever since.

Before 1914 the company had produced small quantities of the new asbestos brake linings. This department was revived in 1919 and expanded rapidly. The brake and clutch linings manufactured by the company were marketed under the trade names "Mintex" and "Halo".

In 1920, it was decided to acquire the British Asbestos Company Limited, which manufactured asbestos yarns, cloths and packings, and in 1926 the two concerns were amalgamated under the present name of British Belting and Asbestos Limited.

International Trading

Today B.B.A. forms a large group of companies, and products are being shipped to every corner of the world.

In addition to the above three groups of companies there are other British firms manufacturing asbestos-based products on a wide scale and their activities will be listed in a later review of respective fields of asbestos applications.

The following figures show the growth of raw asbestos imports and the exports of manufactured goods. It must be realized, however, that asbestos in one form or another is also being exported by every branch of industry, such as engineering, motorcar, aircraft, electrical, shipbuilding and others, in the form of vital components. Export of



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ASBESTOS CORPORATION LIMITED ASBESTOS
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asbestos-cement goods will be shown in the section dealing with building materials.

Import of Raw Asbestos

1946: 55,235 tons, valued at £ 1,843,258 (US$ 5,161,122)
1954: 124,361 tons, valued at £ 9,013,349 (US$25,237,377)
1964: 183,929 tons, valued at £11,130,450 (US$31,165,260)

Export of Friction Materials

1964: 685,523 (cwt./112 pounds), valued at £12,343,299

Export of Other Products*

1964: 685,514 (cwt./112 pounds), valued at £12,343,303

*(millboard, paper, packing, lagging, jointing, yarn, cloth, linings containing asbestos, sheets, coils, etc.)

Exports of Asbestos Manufactured Products

1946: Valued at £ 3,383,058 (US$ 9,472,562)
1954: Valued at £ 7,162,563 (US$20,055,176)
1964: Valued at £12,343,303 (US$34,561,248)

Building Materials

Ludwig Hatschek invented asbestos-cement in Austria towards the end of the 19th century and today it is manufactured in many countries. It is used for a wide range of building products in Britain, where over half a million tons of asbestos-cement were produced in 1964—an indication of the extent to which the product has become accepted as a standard building material. Three major manufacturers of asbestos-cement products in Britain are Turner Asbestos Cement Company Limited, the Universal Asbestos Manufacturing Company Limited, and Atlas Asbestos Cement Company Limited, Royston, Hertfordshire.

The future expansion of the asbestos-cement industry depends largely upon the extent to which the material — and the industry—can adapt itself to the changes that are taking place today in architectural thinking and building techniques.

Notable recent developments have proved that asbestos-cement can meet this challenge as it possesses three useful characteristics: relatively low cost; no maintenance problems; and, comparative freedom in design. These properties have gained for asbestos-cement a ready market as roofing and cladding material, and the industry has expanded rapidly. Turners Asbestos Cement Company Limit-

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ed, for example, now has seven factories in Britain and an eighth is projected.

The increasing awareness of fire risk, especially in large and multi-story structures, has led to the recognition of the characteristic of noncombustibility which asbestos-cement products possess, and the fire-resistant qualities of low density asbestos-based boards.

More recently, designs of some asbestos-cement sheeting materials were radically changed so as to incorporate insulation which would satisfy the requirements of the Thermal Insulation (Industrial Buildings) Act 1951. Double-cladding techniques have also been developed and are now firmly established design practice.

The reinforcing effect of the asbestos fibres themselves, together with the inherent strength of larger and bolder corrugations, has led to the production of sheeting suitable for low-pitched roofs. For example, sheeting with 12 inch (30.48 cms.) pitch corrugations can be used with roofs having a minimum slope of 4 inches (10.16 cms.) in 10 feet (3.04 metres) with purlins spaced up to 6 feet 6 inches (1.98 metres) for simple-skin roof coverings and up to 9 feet 6 inches (2.89 metres) with insulated double skin.

The changes which are now taking place in the building industry, with the onset of large-scale industrialization, have provided the asbestos-cement industry with an opportunity to demonstrate the versatility of its products; cold-water storage cisterns, blind boxes and ducting are examples of this. The increasing emphasis on color and texture in modern building has resulted in the colored and textured products of the asbestos-cement industry finding a ready outlet. Factory-applied color finishes have proved popular with infill panels in curtain walling systems and the recent development of integral color which is used for asbestos cement slates, corrugated roofing sheets and flat building sheet is one which has been successfully employed in system and rationalized traditional house building.

Sales of asbestos-cement pressure pipes have steadily increased since the pipes were first introduced into Britain in the early 1930's. An important recent innovation in the field of water pressure pipes has been the development of a flexible joint. This has proved an outstanding success.

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& Fibres

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The asbestos-cement pipe for sewerage and drainage has also met with approval.

One quality of asbestos-cement which is being exploited is the ease with which it can be moulded. Its plasticity in its wet stage allows it to be corrugated, but it can also be moulded and shaped to produce a wide range of interesting profiles; sculptured and pyramidal forms being particularly suitable for cladding panels and free spanning roof units. An interesting feature was designed for the Yvonne Arnaud Theatre at Guilford, Surrey, by using specially moulded "U"-shaped louvre blades.

Asbestos-Cement In Cooling Towers

In all electricity generating stations the exhaust steam from the turbines passes into condensers, where it is converted into water. In the interests of efficiency it is essential that the steam should condense rapidly, and considerable quantities of cold water are therefore needed for cooling. This is a relatively simple problem for stations near the sea or upon a large river, but inland it is generally necessary to provide cooling towers, through which the water can be circulated and lowered in temperature before being pumped back into the condensers.

Although the cooling tower of today differs considerably in construction from its predecessor of some 50 years ago, the basic principle of cooling water by allowing it to fall against a rising air stream remains unaltered. The cooling tower is, in effect, a large chimney through which air is continually rising by natural draught from openings in the base. The bottom of every tower is packed with a network of slats at a height of about 10 to 30 feet (3.04 to 9.14 metres) above the cill. Radiating sprayer pipes are fitted over these slats, and it is into these pipes that the heated circulating water is pumped. This water is then discharged from nozzles as a fine spray and falls down the tower against the rising air stream. The function of the network of slats is to spread the falling water into a thin film, or in some cases spray, thereby ensuring that it receives optimum cooling before reaching the concrete pond at the base of the tower, where it is collected and returned to the condensers.

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The Universal Asbestos Manufacturing Company Limited, of Watford, Hertfordshire, England, has for some years worked with specialists in the design of cooling towers. With the co-operation of L. G. Mouchel and Partners, a simple and efficient type of cooling pack has been evolved which requires neither spacers nor ancillary fixings. In this pack 6-inch (15.24-cm.) corrugated sheets, with the corrugations running vertically, are interleaved with 3-inch (7.62-cm.) corrugated sheets, with the corrugations running horizontally. The multiple points of contact between the corrugations give added strength and rigidity to the packs.

Most of the recently designed packs by U.A.M. have incorporated a cooling pack of more economical design. This is based upon asbestos-cement 6-inch (15.24-cm.) corrugated sheets 10 feet long by 3/16 inches thick (3.04 metres by 4.7 mm.) laid on edge, with the corrugations running horizontally, the packs being supported at the ends only. The sheets are kept in the correct positions in the packs by means of concrete or plastic spacers inserted at each end between the corrugations.

The packs are 3 feet 6½ inches (1.08 metres) high, that is, slightly less than the overall width of the sheets when supplied in ¼ inch (6.35 mm.) thick material, for roofing work. In this design, the cooling system is based upon two tiers of packs, throughout the area of the tower, the direction of the sheets in the upper tier being at a right-angle to that of the sheets in the lower.

Early in 1966 the U.A.M. Group will be manufacturing asbestos-cement products by the newly developed process of extrusion. This process is similar to that in use for plastics and will make possible the production of hollow sections of all kinds. Such shapes being beyond the capacity of conventional machines, it has been the practice hitherto, where they are required, to mould wet flat material in the works, or shop-fabricate matured material, according to the design of the product.

This new process should permit the production of items of great value, in method and system building. Furthermore, it is hoped that it will bring asbestos-cement products more into the orbit of house building, in addition to supplying the requirements of industrial structures.

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come to the point

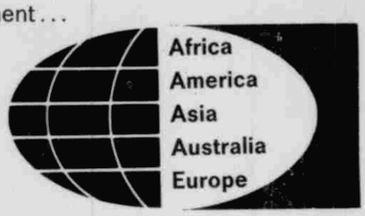
CANADIAN J-M—The first phase of a new fast start-up and shut-down thermal generating station for Hydro-Quebec has been completed at Tracy, 45 miles down the St. Lawrence River from Montreal, Canada. To be used to meet extra demand during peak loading periods, the station is making available to the system 300,000 kilowatts of energy. As demand rises, future phases will enable as much as one-million kilowatts to be generated. Some 50,000 feet of water and steam-conducting piping varying from ½-inch to 24 inches connect the various components necessary to produce the end product, electrical energy. With temperatures ranging up to 1,000°F., efficient insulation is essential. The owners chose a pipe covering called *Metal-On*, manufactured by Canadian Johns-Manville Company Limited. This product consists of a hydrous calcium silicate insulation trade-named *Thermobestos*, protected by a .016-inch polished aluminum jacket. The installation of Metal-On was handled by Asbestos Covering Company, of Montreal. In the Tracy generating station, Metal-On was used throughout the piping systems except on the piping for the boilers.

CORK INSULATION & ASBESTOS—Mr. K. L. Roberts, export manager of Cork Insulation and Asbestos Company Limited, has recently completed a 35-day round-the-world export drive for his company, visiting Singapore, Hong Kong, Australia, New Zealand and the United States. The main purpose of his tour was to consolidate existing agencies and establish new ones for his company's products.

HALL MACHINERY LIMITED, a leading manufacturer of asbestos milling equipment, in Sherbrooke, Quebec, Canada, has become the *Hall Machinery Division of James United Steel Limited*. A. J. Paul LaPrairie, Vice President of James, has assumed responsibility for the new division.

ASTM STANDARD—Definition of Terms Relating to Thermal Insulating Materials, C168-65 ($4.00).

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Automobile Sales

FEBRUARY 1966 motor vehicle factory sales from plants in the United States totaled 917,572 (passenger cars —766,302; trucks and buses—151,270). The total for February 1965 was 905,913.

United States motor vehicle imports for February 1966 were as follows: new passenger cars—72,955 valued at $95,965,428; used passenger cars—465 valued at $645,335; trucks and buses—2,685 valued at $5,335,758; and, automotive parts—valued at $34,973,160. (Automobile Manufacturers Association)

ANALYSIS OF ASBESTOS-CEMENT BINDERS is a very informative article by G. L. Kalousek, F. V. Camarda, J. E. Kopanda, and Z. T. Jugovic, which appeared in the April 1966 issue of ASTM's publication "Materials Research & Standards". Differential thermal analysis, X-ray diffraction, and uncombined $Ca(OH)_2$ analyses were used in studying the binders of ten autoclaved and nine normal-cured commercial asbestos-cement products, and five series of laboratory-prepared specimens.

ASBESTOS will be glad to lend its copy to interested readers.

ASTM SPECIFICATIONS—Asbestos-cement canal bulkhead specifications are being written and will be available for discussion by Committee C-17 on Asbestos-Cement Products at the annual meeting, June 1966, of the American Society for Testing and Materials. Important properties of this bulkhead material, based on five years of broad applications, are resistance to sulfate attack, resistance to freezing and thawing damage in sea water, and resistance to the effects of alternate wetting and drying in sea water.

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St. Louis, Mo.	Thompson-Hayward Chemical Company
San Francisco, Calif.	E. S. Browning Company
Seattle, Wash.	Durkin Chemicals, Inc.
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

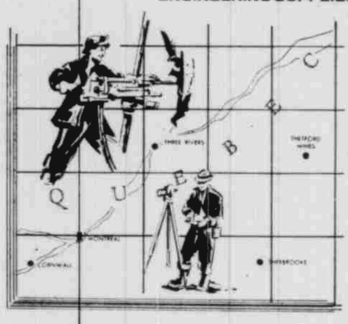
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R/M STYLE 110-RPD is a new asbestos-base, dry-type molding compound developed by the Aerospace Division of Raybestos-Manhattan, Inc. for use as economical thermal insulating and back-up structural insulating material for aircraft, rocket, missile, and space vehicle components. The new material has good ablation resistance, physical characteristics, dimensional stability, and an excellent strength-to-weight ratio. It is especially recommended for applications where physical property requirements are secondary, may be exposed to high-temperature erosive gases, and is considered an excellent and economical mold break-in material. R/M Style 110-RPD is manufactured from medium length Chrysotile asbestos fibers thoroughly mixed in a dry process with a special heat resistant phenolic resin which is not corrosive to metals.

INSTITUTE FOR ASBESTOS INFORMATION, 298 Rokeby Road, Subiaco, Western Australia, has been formed. Its aim will be to promote the dissemination and use of all forms of published information on asbestos to assist researchers in both industry and the academic world. As a preliminary move in this direction, the Institute is to publish a series of translations on asbestos topics, principally drawn from Russian sources—the first of these will be available shortly. The Institute later intends to publish short monographs on asbestos, and possibly an International Directory to the asbestos trade. The first Director of the Institute will be David G. Noel, M.A., formerly of The Cape Asbestos Company Limited, England.

ASBESTOS MINERALS CONFERENCE—It is proposed to hold a three-day Conference at Oxford University on July 19th through 21st, 1967, with the aim of bringing together recent work on physical, chemical and geochemical aspects of asbestos minerals. Anyone interested in this Conference should write immediately for further details to: Dr. J. Zussman, University of Oxford, Department of Geology & Mineralogy, Parks Road, Oxford, England (Telephone—Oxford 54511).

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Building

MARCH 1966 contracts for future construction work throughout the nation, at $4,736,916,000, surged 12% over the year-ago amount to top all previous rates. As tight as present construction markets are in many parts of the country, the latest month's tabulations of newly-contracted projects clearly point to increasing pressures of demand in the months ahead.

Nonresidential building contracts for March were valued at $1,725,563,000 (25% ahead of March 1965), with every category of building posting a sizeable gain. Commercial buildings led with a 39% increase, manufacturing construction showed a 9% advance, educational building contracts increased 16%, and hospital building advanced 21%.

Residential building data for March presented a mixed picture of very strong single-family housing demand along with sharp reduction in apartments and in nonhousekeeping residential buildings. Total residential building value amounted to $2,003,906,000, achieving a 7% year-to-year gain. All of the month's increase came from the 20% surge in one-family home building. Multi-family home contracts dipped sharply, and dormitories, hotels, and motels continued to run behind last year's exceptional pace.

Nonbuilding construction contracts in March totaled $1,007,447,000, registering a 5% increase over last year's reported amount. Most of the gain came from street, highway, and bridge contracts, which were up more than 20% from the previous March. This large category normally accounts for about half of all nonbuilding construction value. Water supply projects also showed a large gain. Contracts for utilities construction were slightly more than even with the year-ago total. The gains were partially offset by large declines in contracts for missile and space construction, airports, dams and reservoirs, and river and harbor projects.

FIRST QUARTER 1966—Total construction amounted to $11,741,473,000, up 11% from the same period last year. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)



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CIAP EXHIBIT (Stand No. 645, Grey Hall, First Floor, International Chemical and Petroleum Engineering Exhibition, Olympia, England, June 15th through 24th, 1966)—Cape Insulation and Asbestos Products Limited, manufacturers of Caposite Plus amosite fibre pipe coverings, Caposite and Caposil 1400 block lagging for the thermal insulation of refinery plant, boilers, tanks, vessels and chemical plant, will display examples of these materials applied, where possible, under operational conditions.

SHINGLE SIDING—Section 421 of the Construction Volume of the Construction Lending Guide is available from the United States Savings and Loan League, 221 North LaSalle Street, Chicago, Illinois 60601 (25¢). A chapter on asbestos-cement shingles is included which covers materials, preparation for siding, application of siding, and re-siding existing construction. The U.S. League is making this section available for educational use, although the Construction Volume is not yet completed and other sections are not presently available.

GENERAL GEOLOGY AND ASBESTOS MINERALIZATION IN THE CHIBOUGAMAU DISTRICT, by Gilles Duquette (Geologist, Department of Natural Resources, Province of Quebec), was presented at the 34th Annual Convention of the Prospectors and Developers Association, held in Toronto, March 6-9, 1966. The Chibougamau Region, which represents one of the largest copper producing camps in Canada, is currently undergoing a period of rather extensive exploration for chrysotile asbestos. Large asbestos deposits have already been outlined and it is expected that some of them will be put into production in the next few years. The purpose of this paper is two-fold: first to outline briefly the geology of the district with special reference to the rocks in which asbestos occurs, and second to give a short description of the main asbestos deposits. ASBESTOS will be glad to lend its copy to interested readers. (Canadian Mining Journal, April 1966, pages 70-76)

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MARKET CONDITIONS

General Business.

General business continues excellent. Practically all statistics for March showed relatively large gains. In fact, some of these gains continued to deeply concern the Administration since they could be traced back to price increases and therefore could be considered inflationary. However, there are signs that the general tightening of credit may be putting the brakes on a runaway inflationary move and, if this is not sufficient to halt the trend, there is every indication the Administration is ready to use a tax rise as a further deflationary measure. It is interesting to note the very real concern of those in high office with the problem of inflation. Even the advocates of "easy money" policies are keeping rather quiet in view of the present critical situation. This, to our mind, is most encouraging and indicates an awareness of the dangers in the economic picture and a lot of down-to-earth thinking about just how best to avoid these dangers.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during March 1966 totalled 100,317 tons, an increase of 21,475 tons or approximately 27% over the same period last year. Year to date shipments at 263,324 tons exceed those of 1965 by 74,301 tons or roughly 40%.

Asbestos—Manufactured Goods.

Asbestos Textiles. Asbestos textiles continue to be in heavy demand. Military usage is still increasing and most manufacturers are running at capacity. All indications point to continued high levels of operation.

Asbestos Brake Lining. The market situation at present for this product is excellent and demand should further increase during the year.

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High Pressure Insulation. There is a heavy backlog for this material and this situation is expected to continue during the months ahead.

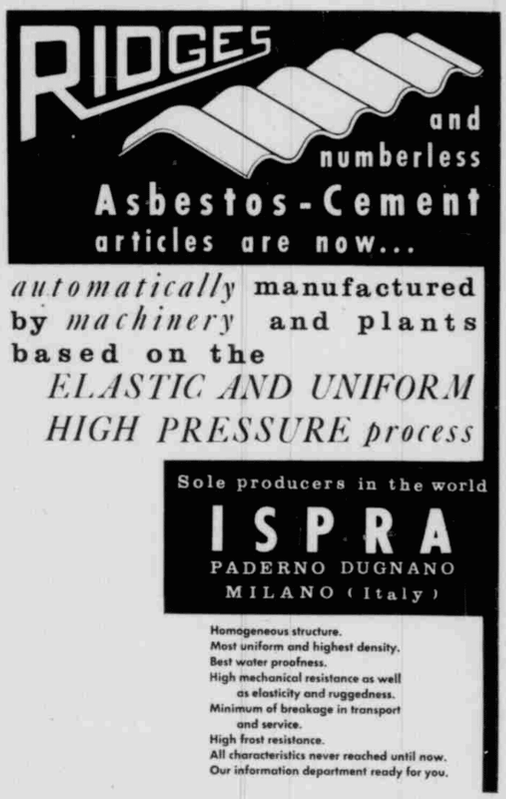
Asbestos-Cement Siding. The volume of usage of mineral fiber sidings in new construction and home modernization is low at present. However, if mortgage money becomes less tight and the trend to less expensive homes becomes pronounced, 1966 could become a good year in spite of a slow beginning. A firming of prices for mineral fiber siding can be seen.

Asbestos-Cement Pipes. Although the housing market decline in the last quarter of 1965 has had some effect on sales during the first quarter of this year, recovery now seems firmly under way. While the outlook is one of optimism, careful attention must be paid to the increasing interest cost of revenue bonds used by municipalities to finance their major construction projects.

Asbestos Filter Fiber. The Arizona asbestos filter market is strong and first quarter orders are exceeding the volume of last year by approximately 5%. The outlook is excellent for the balance of 1966.

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

TURNERS ASBESTOS CEMENT CO. LTD. now has available copies of a new issue of the booklet "Fire Protection of Structures". The publication has been revised to include a brief interpretation of the Building Regulations 1965 for England and Wales in relation to asbestos and asbestos-cement materials, and a separate edition of the booklet outlining the Building Standards (Scotland) Regulations is also available. The importance of asbestos and asbestos-cement products when constructing buildings that will minimize the risk of heavy losses by fire is obvious to those studying the booklet. Examples are given of applications of the material in various units of structure that conform with the Regulations and Acts.



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PRODUCTION

California—According to Mineral Information Service (publication of California Division of Mines and Geology), production of asbestos for the YEAR 1965 has been estimated at 70,000 short tons, valued at $6,009,000.

Japan—Asbestos produced in Japan during 1963 (16,520 metric tons) and 1964 (16,310 metric tons) came entirely from chrysotile deposits in Hokkaido, Yamabe Distrit. In the past, a small quantity of amphibole was mined pricipally in Kyushu. Year-end stocks amounted to 1,889 metric tons in 1963 and 1,282 metric tons in 1964. (U.S. Mineral Trade Notes)

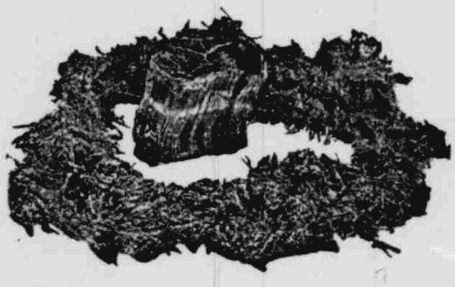
Greece—The recent establishment in Greece of the State-owned Societe Generale de Recherches et d'Exploitations Minieres, exclusively devoted to the development of the country's mining activities, is generally regarded as a major step towards the more active exploitation of Greece's mineral potential. This organization is an offspring of the State-owned Greek Development Bank (E.T.B.A.), formed in September 1964 by a merger of three development companies (Industrial Development Company, Finance Organization for Economic Development, and Credit Organization for Tourism).

A promising asbestos deposit has been found near Kozani and is being developed. Mining and processing are to be started by 1968, with an initial output of 10,000 metric tons of asbestos annually worth some U.S. $2-million.

Australian Bulletin—The Australian Mineral Industry: The Mineral Deposits is available as Bulletin 72 from the Department of National Development, Bureau of Mineral Resources, Geology, and Geophysics, P. O. Box 378, Canberra City, A.C.T., Australia (£6/$12.00—chapters available at 2s.6d/25¢ each). The aim of this 690-page, 55-chapter bulletin is to provide a reference volume outlining Australia's mineral resources. As far as possible, all known deposits of actual or potential economic importance, and deposits or fields from which production has been recorded in the past, are listed, and a brief description is given of the geology of the more important, including many which are no longer productive. A very comprehensive chapter on asbestos is included in the bulletin.

Canada's Asbestos Mines 1963 (Catalogue No. 26-205, annual, 50¢) is available from the Dominion Bureau of Statistics, Industry Division, Ottawa, Canada. It covers statistics on the asbestos mining industry including production, shipments, tonnage of rock mined and milled, imports and exports of asbestos and asbestos products, etc.)

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census)	DECEMBER 1965	YEAR 1965
Unmanufactured Asbestos:		Short Tons
Amosite, Crude, Finland	..	50
Republic of South Africa	2,365	16,605
United Kingdom	2	437
Crocidolite (Blue), Crude, Australia	..	260
Bolivia	..	4
Chile	..	2
Republic of South Africa	2,438	21,100
United Kingdom	..	65
Chrysotile, Crude, Canada	3,135	4,210
Portugal	..	959
Republic of South Africa	75	1,792
United Kingdom	..	12
Yugoslavia	..	3,461
Zambia, So. Rhodesia & Malawi	960	6,482
Chrysotile Spinning Fibers, Canada	1,460	17,105
Mozambique	..	30
Republic of South Africa	10	10
United Kingdom	..	1
Zambia, So. Rhodesia & Malawi	..	223
Chrysotile, Other, Canada	47,142	604,990
Finland	..	55
Italy	..	2
Republic of South Africa	..	4 37
United Kingdom	..	22
USSR	..	33
Yugoslavia	..	1,015
Zambia, So. Rhodesia & Malawi	160	4,984
Asbestos, Other, Bolivia	..	3
Canada	2,128	31,744
Finland	352	2,420
Mozambique	..	29
Portugal	10	45
Republic of South Africa	355	474
United Kingdom	2	198
Zambia, So. Rhodesia & Malawi	..	300
	60,594	719,559

December 1965 valued at ..$ 6,480,883
Year 1965 valued at.....$70,457,230

Manufactured Asbestos Goods:	Pounds	Value
		December 1965
A-C Pipes, Tubes & Fittings	6,765,454	$ 339,790
Asbestos-Cement Articles, Other	1,487,067	206,407
Asbestos Yarn, Sliver, Rope, etc. & other	..	153,586
		$ 699,783
		Year 1965
A-C Pipes, Tubes & Fittings	79,134,965	$4,081,044
Asbestos-Cement Articles, Other	16,298,656	1,752,446
Asbestos Yarn, Sliver, Rope, etc. & other	..	1,806,329
		$7,639,819

Japan Imports—143,969 metric tons of asbestos were imported into Japan during 1964 valued at $20,553,000 compared with 115,492 metric tons, valued at $16,047,000, in 1963. The 25% increase registered in 1964 reflected the rising demand for asbestos in all segments of the industry. Of the total imported during the year, Canada provided about 60%. (U.S. Mineral Trade Notes)



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Exports From Canada

(Published by Dominion Bureau of Statistics) DECEMBER 1965

Unmanufactured Asbestos: Short Tons

	Crude	Milled	Shorts
United States	...	18,221	32,147
United Kingdom	..	4,500	6,711
South America	..	5,825	1,567
Central America & Mexico	..	1,736	616
Europe	3	37,706	14,469
Japan	3	9,548	19,156
Other Countries	..	11,162	2,890
	6	88,698	77,556

Total Unmanufactured Asbestos—116,260
Valued at —$21,418,713

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 48,248
Asbestos-Cement Building Materials	74,106
Asbestos Basic Products, Other	49,121
	$ 171,475

Unmanufactured Asbestos: YEAR 1965

	Crude	Milled	Shorts
United States	25	213,427	447,668
United Kingdom	..	47,936	51,784
South America	..	37,385	11,510
Central America & Mexico	..	19,279	3,004
Europe	71	207,872	103,749
Japan	27	28,234	52,663
Other Countries	..	76,644	18,126
	123	630,777	688,504

Total Unmanufactured Asbestos—1,319,404
Valued at—$158,657,028

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 559,772
Asbestos-Cement Building Materials	1,084,817
Asbestos Basic Products, Other	375,489
	$ 2,020,078



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INDUSTRY NEWS

HAPPY BIRTHDAY

John L. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, May 15.
R. M. Bateman, Deputy Chairman & Joint Managing Director, Turner & Newall Limited, Manchester, England, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, Netherlands, May 16.
Warren Darrell, Vice President—Manufacturing, Nicolet Industries, Inc., Florham Park, New Jersey, May 18.
John J. Dempsey, President, Armor Products, Inc., New York City, May 18.
Norman L. Barr, Vice President—Marketing, Atlas Asbestos Company, Montreal, Canada, May 19.
Robert A. Schneider, Senior Consulting Engineer, Certainteed Products Corporation, Riverside, California, May 21.
William J. Van Akin, Senior Vice President—Manufacturing, The Ruberoid Co., New York City, May 23.
Charles J. Clark, Vice President, Asbestos & Magnesia Materials Company, Chicago, Illinois, May 25.
Louis F. Frazza, Vice President & General Sales Manager, Johns-Manville Corporation, New York City, May 26.
Geo. V. Hamilton, President, Geo. V. Hamilton, Inc., McKees Rocks, Pennsylvania, May 26.
Paul A. Benke, Vice President & General Manager, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, May 27.
A. J. McMullen, President, Garlock, Inc., Palmyra, New York, May 27.
Giles Fendall Newton, Honorary President, The Cape Asbestos Company Limited, London, England, May 27.
Edward C. Koch, Vice President, Orangeburg Mfg. Co., division of The Flintkote Company, Orangeburg, New York, May 28.
Frederick A. Wagner, Senior Vice President—Finance, National Gypsum Company, Buffalo, New York, May 30.
George A. Gelish, President, Port Asbestos Insulation Company, Brooklyn, New York, June 1.
Eugene W. Odenwaldt, Vice President—Manufacturing, National Gypsum Company, Buffalo, New York, June 2.
Bert I. Bertelsen, President, Drycor Felt Company, Staffordville, Connecticut, June 3.
Harold F. Plate, Sales Manager, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 3.
G. C. Scowcroft, President, Carey-Canadian Mines Limited, East Broughton Station, Quebec, Canada, June 3.
Charles L. Sell, Director, Purchases & Traffic, The Ruberoid Co., New York City, June 4.
Yvan Couture, Director of Public Relations, Canadian Johns-Man-

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ville Company Limited, Asbestos, Quebec, Canada, June 6.
Leonard B. Farrell, Vice President—Industrial & Public Relations, The Ruberoid Co., New York City, June 6.
Herbert L. King, retired, former Manager, New Business Department, Johns-Manville Corporation, New York City, June 6.
Walter H. O'Connell, Vice President—Manufacturing, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, June 6.
Joseph N. Yorke, Vice President—Finance, H. K. Porter Company Inc., Pittsburgh, Pennsylvania, June 6.
Manley Alsaker, Vice President, Kelley Asbestos Products Company, Omaha, Nebraska, June 9.
Herbert Morton Ball, Secretary & General Attorney, Johns-Manville Corporation, New York City, June 9.
Robert F. Deerfield, Product Pricing Manager, Building Products Division, The Ruberoid Co., New York City, June 9.
W. B. Evans, Corporate Vice President—Marketing, The Philip Carey Manufacturing Company, Cincinnati, Ohio, June 10.
Walter Fenn, Director in Charge of Contract Department, Atlantic Asbestos Corporation, New York City, June 12.
G. S. Sutcliffe, Joint Managing Director, Turner & Newall Limited, Manchester, England, June 12.
A. H. Bagenstose, Vice President—Sales, Carey-Canadian Mines Limited, Cincinnati, Ohio, June 14.

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

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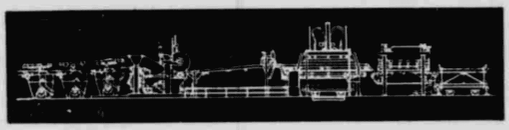
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Everite (Pty) Limited is erecting a new factory at Brackenfell, South Africa, for the production of six-metre asbestos-cement pipes. In addition, the present four-metre pipe machine is to be transferred from an existing Everite pipe factory in South Africa to the new factory to make provision for the installation of another sheet machine. Everite started production in South Africa in 1941, but was then known as Amiantus (Pty) Limited.

Cape/Blue—The Cape Asbestos Company Limited's main mining operations at Koegas/Westerberg and Pomfret have run well during 1965 and production exceeded that of the previous year. Exploration continues in order to replenish ore reserves and there are hopes of finding useful fresh deposits. (Cape Asbestos Annual Report)

Cape Asbestos/Amosite—The Cape Asbestos Company Limited has experienced good progress during 1965 in its Amosite fields. In particular, the company's plans for extending and integrating the mine workings have proceeded well. The company is constructing a tunnel linking the Weltevreden mine to the new plant and at the same time is advancing into the new area where results of exploratory drilling are most encouraging. The next large stage of the plant reconstruction is due for completion by June 1966 and this should give a substantial addition to production in the second half of 1966. (Cape Asbestos Annual Report)

Asbestos Corporation Limited—Outside exploration was undertaken in Ontario, British Columbia, California, Oregon, and Alaska in the course of which 34 asbestos and 17 base metal prospects were examined. Other exploration ventures on a joint basis with partners involved work in the Northwest Territories, the Yukon Territory and Manitoba. (1965 Annual Report)

Asbestos Corporation Limited—As a result of extensive diamond drilling on the ore bodies of the operating properties, ore reserves have been recalculated and after allowing for consumption during 1965, the reserves, excluding Asbestos Hill, are estimated as follows: King-Beaver—36,340,000 tons; British Canadian—55,645,000 tons; Normandie—14,175,000 tons; and, other properties—14,275,000 tons. The total for 1965 amounts to 120,435,000 tons which compares with the 1964 figure of 127,420,000 tons. (Asbestos Corporation 1965 Annual Report)

Cassiar—At the recent annual meeting of Cassiar Asbestos Corporation Limited, President J. D. Christian noted that it is interesting to speculate that by 1970, when both of the company's mines are expected to be operating at capacity, the value of Cassiar's production will amount to approximately one-fifth of Canada's total asbestos production.

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THE RUBEROID CO.

David L. Neil, vice president-manufacturing of Ruberoid's Building and Industrial Products Division, has announced the advancement of the following four manufacturing officials to new responsibilities: **A. E. Nolan**—moves from Kansas City to the plant managership of the company's asphalt roofing facility at Denver, Colorado; **Donald H. McKenzie**—succeeds Mr. Nolan as plant manager at Kansas City; **L. Dean Lanier**—moves from Minneapolis to assume the management of Ruberoid's two plants at Erie, Pennsylvania; and, **Thomas R. Brady** becomes the new plant manager at Minneapolis, Minnesota.

Robert A. Wanner has been named eastern district sales manager for Ruberoid's Roofing Granule Division. He will be headquartered at Bound Brook, New Jersey, and will be responsible for roofing granule sales in the eastern territory that embraces nine states and two provinces of Canada.

UNITED STATES RUBBER COMPANY

George R. Vila, Chairman and President of U. S. Rubber, has announced the following realignment of executives: **Harry D. Glenn**—group vice president of the consumer and industrial products division, succeeding **C. William Pennington**—retiring under the company's retirement plan but being retained in a consulting capacity; **Claude H. Allard**—vice president and general manager of the international division, succeeding **Edward J. Higgins** who is assuming other duties in connection with the company's newly organized corporate engineering activities; **Frank A. Hopkins**—vice president and general manager of the chemical division, succeeding Mr. Glenn; **W. Lindsay Wylie**—vice president and general manager of the textile division, succeeding Mr. Allard; **Andrew J. McNeill**—vice president of purchasing and traffic; **Frederick N. Taff**—vice president of corporate engineering; and, **William F. Wrightnour**—vice president or organization planning.

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Keeps you abreast of all developments. Each issue contains over 100 abstracts relating to the manufacture of asbestos-based products. Special chapters on asbestos mining, asbestos-cement, friction and asbestos-reinforced plastics. Annual Subscription £9.15.0d. Back copies half-price.

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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. North Vancouver, B.C.

As of January 1, 1966) 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)	273.00
AK grade (shingle fibre—Canadian Group 4)	231.00
AS grade (shingle fibre—Canadian Group 4)	190.00
AX grade (shingle fibre—Canadian Group 5)	168.00
AY grade (shingle fibre—Canadian Group 5)	123.00

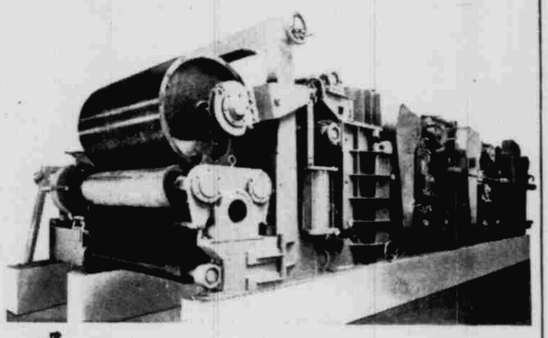
VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(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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CAPE ASBESTOS GROUP

E. Gaskell has been appointed Managing Director of Cape Insulation & Asbestos Products Limited. This appointment became effective on April 21st, 1966.

Anthony J. Barker has joined Kismet Limited as the new Marketing Manager of the Sales Division. He has held previous appointments in Sales, Export and Marketing Management, associated with engineering and the motor trade.

Michael J. Oates rejoined Kismet Limited and has been appointed Export Manager of the Sales Division. He has had progressive experience in the motor trade.

JOHNS-MANVILLE CORPORATION

David L. Carpenter, formerly Manager for Finance Planning, has been named Controller of J-M's Building Products Division. He assumed his previous post in 1964, prior to which he served for two years as Controller of the company's Research, Development and Engineering Center at Manville, New Jersey.

THE FLINTKOTE COMPANY

Hollis R. Henry has been appointed Sales Engineer for Flintite asbestos-cement pipe by Orangeburg Manufacturing Company, division of Flintkote. His territory will cover western Ohio and he will handle the full line of Flintite pipe which includes pressure pipe for water lines and force mains, gravity sewer, building sewer and irrigation pipe.

Asbestos Corporation Annual Report 1965—Net income for the year 1965, at $3,736,028, was $731,357 or 24% higher than 1964 for Asbestos Corporation Limited. Sales for the year amounted to $33,232,846 compared with $37,491,304 in 1964. During the year, steps were taken to increase mill capacity at all plants. The overall milling rate was at 93.5% of capacity resulting in an increase of 14% in total rock milled.

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington 25, D.C., at a cost of 50 cents each. Remittance should be in coin, currency, or check, and the number(s) of the patent(s), name(s) of inventor(s), and date(s) of issue should be shown.

U.S. Patents issued from March 15th through April 12th, 1966.

3,240,663—Method of Preparing Paper From Mica Flakes and A Silicone, T. A. Raczek (assigned to Dow Corning Corporation, Midland, Michigan), March 15, 1966. Process for preparing commercial silicone-asbestos or silicone-mica papers on Fourdrinier or cylinder machines without using an organic solvent.

Cape Asbestos Annual Report 1965—According to the 73rd annual report and accounts of The Cape Asbestos Company Limited, sales amounted to £22,304,626 compared with £20,980,152 in 1964, and net profit was £1,207,567 compared with £1,146,828. After all appropriations have been met, the amount carried forward was increased by £628,512 and stands at £4,293,140. In Africa, the reconstruction of the mills and the extension of mining operations is reaching a peak, and during 1965 £1,707,965 was spent on capital account throughout the Group, of which £806,486 was in South Africa.

United Asbestos Annual Report 1965—Net income for United Asbestos Corporation Limited for the year 1965 amounted to $1,303,781 compared to $889,424 in 1964. The joint venture operation with Lake Asbestos of Quebec Limited resulted in 1965 in production of 114,804 tons of asbestos fibre and shipments of 106,551 tons representing an increase of 10.8% in production and a decrease of 7.6% in shipments compared with the previous year. The enlargement of the open pit operation continued and a total of 11,707,251 tons of ore, waste and overburden was handled. As a result of continuing improvements the milling plant capacity now has about a 50% greater output than the original design.

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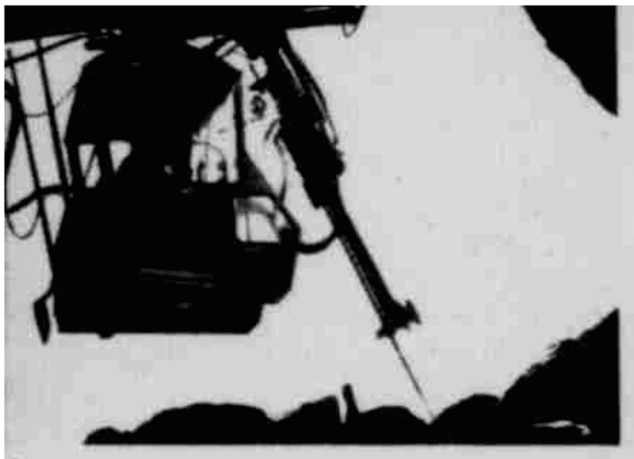
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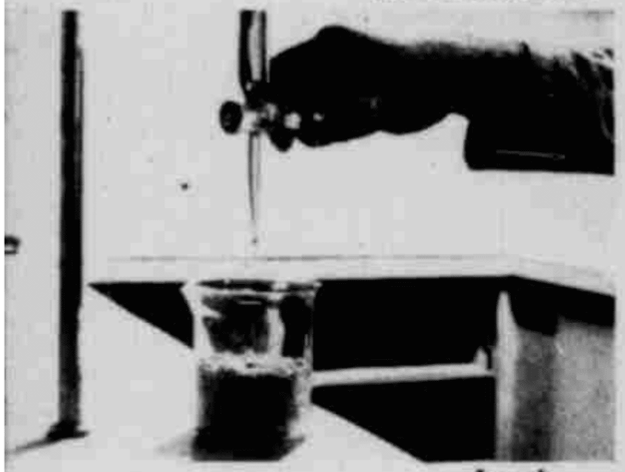
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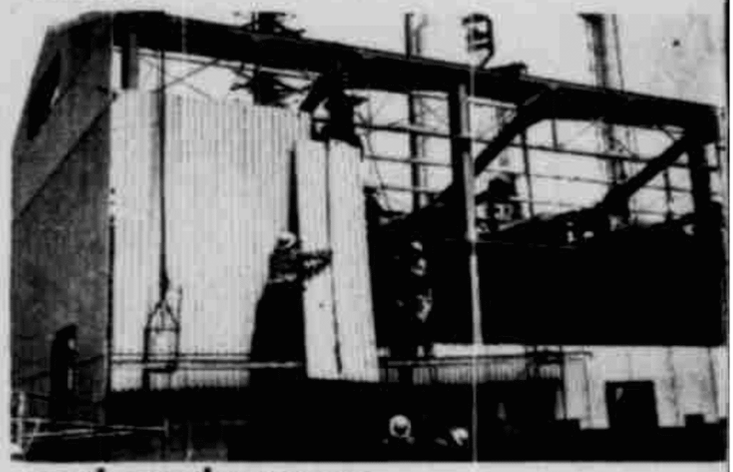
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