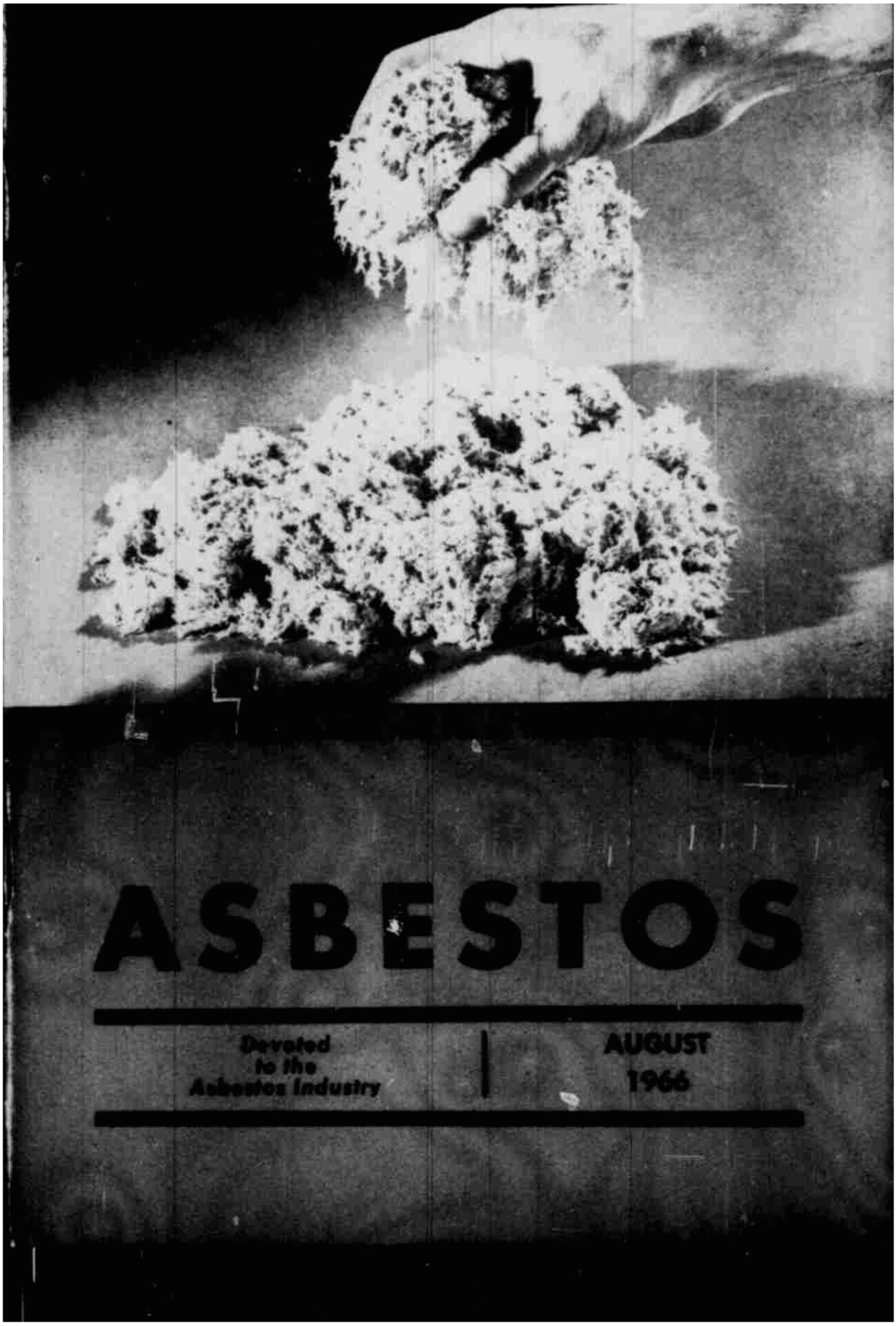

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ASBESTOS

VOLUME 48 AUGUST 1966 NUMBER 2

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ASBESTOS is indexed regularly by Engineering Index, Inc.

ASBESTOS was founded in July 1919 and published monthly since that date by Secretarial Service at 807 Western Saving Fund Bldg., S. E. Corner Broad & Chestnut Sts., Philadelphia, Pennsylvania 19107.

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SUBSCRIPTION RATES — United States, $3.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 25 cents each; Back Copies, 35 cents each (Payable in U. S. Funds).

ASBESTOS UTILIZATION vs. WORLD RESOURCES

By: W. E. Sinclair*

*Deceased

The total consumption of asbestos has now reached the three million ton mark annually, and still world markets point to a continued and probably increasing demand for all varieties of asbestos.

The general expansion and the confidence shown in every branch of industrial activity certainly augurs well for the future in spite of the substitution of artificial fibres in some asbestos applications. Indeed, the future is such that estimates already give promise of a further step up to 3½-million tons annually in production.

This outlook is a most gratifying state of affairs and obviously gives rise to a feeling of extreme satisfaction for the future to all those interested and more particularly to producers of the raw material. It means that those in a position to do so will take steps to expand their operations with every degree of confidence.

It must be acknowledged, however, that all sources of supply are not unlimited and, as in some mines, where proved ore reserves are a dwindling asset, new fields must be developed to keep pace with the increasing demand. Fortunately, there is the current development of new chrysotile projects in Canada and there is the possibility of new mines in Russia, but whether these mines in the U.S.S.R. will affect world supplies is questionable.

In these circumstances then it is quite evident that there exists an urgent need for systematic exploratory work to be undertaken in every likely extension of existing fields and, at the same time, a quest for possible new asbestos-bearing geological formations.

The quest for and the exploration of new ore-bodies, in any form, involves engaging in a somewhat hazardous business where an unknown capital outlay is inevitable. However, except where such work is unsuccessful, the cost of prospecting or exploratory research is generally recovered in the ultimate productive operations. The summation of such capital outlay necessary to bring the proposition to a productive stage, frequently consists of two



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separate accounts. First the discovery or initial cost of prospecting and secondly, the development to finally bring the proposition to a producing mine.

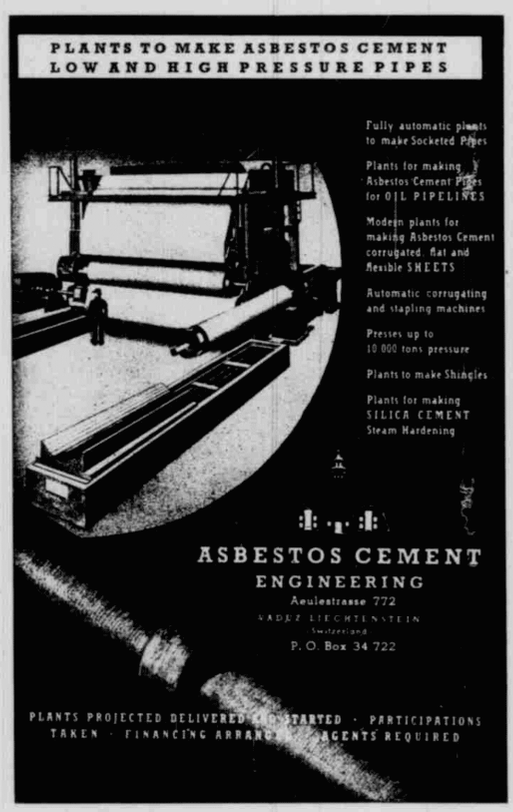
The total sum expended on this work, in most cases, is redeemed during the working life of the project by the simple process of appropriation of a portion of the annual income to a sinking fund, that is, a system of amortization. Alternatively, a proportional amount of the total capital may be borne as an "overhead" on working costs in the same manner as subsequent development expenditure is proportionately charged to operating costs as a fixed charge.

In these circumstances, it is obvious that to alleviate these overhead charges in the ultimate working life of the mine it is essential that every care be exercised in the avoidance of waste in the preliminary exploratory operations.

Waste in exploratory work may take many forms, the most common of which is mistaken planning, due generally to lack of geological and technical knowledge without which the peculiarity of asbestos deposits makes the guidance of the essential work more difficult. It is only by careful examination, (a working hypothesis based on the type and mode of origin of the deposit), that some reliable data can be gained as to its form and continuance in depth. The outcrop indications of many asbestos-bearing formations provide ample evidence of the nature of a deposit and, in some cases, may even furnish an indication of its extent and possible value. There are circumstances however, where asbestos, occurring in ultra-basic rocks, is not exposed because of the absence of outcrops.

The uncertainty and somewhat hazardous work in primary exploration constitutes another possible waste factor; this point strengthens the need for the strictest economy in directing the expenditure of time and labor judiciously under conditions where the element of chance is ever present.

In examining and exploring the potentiality of possible asbestos-bearing formations, where outcrops or float material indicate the obvious existence of mineralization, it is hardly necessary to suggest that the easy way of trac-



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ing the outline of the asbestos area is by means of a system of bio-geochemistry, otherwise "plant-mineral-soil" relationships. Even in the case of hidden deposits, which may be a likely extension of some known areas (perhaps covered by later sediments), it has been found that the existence of definite physiological features (in which vegetation is common to certain asbestos outcrop conditions) it may be possible to apply this technique. This is certainly a cheaper method of delimitating the probable areas of mineralization than carrying out costly airborne or ground geophysical surveys, the only other alternatives.

The fact that asbestos-bearing deposits are generally found in groups within a common region, where favorable geological formations occur, a useful basis is suggested for initial investigations. The merest trace in such a preliminary quest provides a valuable guide as a starting point in planning initial probes.

Such initial work consists of the simplest conventional forms of surface excavations, consisting of trenches and test pits on massive type deposits. Lode deposits offer an easier proposition when they are located since the mineral channel may be opened up by shafts or adit openings.

In partly covered or hidden deposits the work of delimitation, to gain some knowledge of the extent of the deposit, especially over large areas, by ground surveys and clearing, might involve a costly outlay depending on the time taken. An initial ground or airborne survey spells a certain economy in the saving of time alone, as compared with laborious ground work. However, surface mapping following a geophysical survey cannot be entirely ruled out, indeed, in some cases, field mapping is essential and can be assisted considerably by carrying dip-needle reconnaissance work to outline, in a general way, the extent of the mineralized formation.

Because of the occurrence of magnetite in some asbestos bodies, such deposits can be conveniently traced by magnetometer methods either on the ground or from the air, according to the nature of the terrain. The result of such work usually provides important structural information corresponding to a mass possessing magnetic conductivity, even though this may refer, in some cases, to

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inclusions outside the zone of fibre mineralization.

The final exploratory work decided upon can only be based on preliminary work outlined above. Then the object of this work is virtually not only to confirm the initial appraisal or potential value of the body, but to prove the tonnage of payable ore available, which means deep exploration of some kind. It is in this sense that deep exploration in many instances will finally merge into preliminary development plans aimed at proving the future ore reserves extant.

Deep exploratory work may not necessarily consist of shafts or adit tunnels, indeed, in most cases diamond drills are used for this purpose. Actually core drilling, in the first place, is a valuable guide as to the most serviceable layout of any future proposed underground work while, at the same time, the results obtained confirm the tenor and tonnage of the ore in depth. In a diamond drilling program, in most cases it has been found advantageous to commence by arranging a skeleton layout of holes, drilled either vertically or inclined, according to the considered dip of the strata. The results obtained assist in determining the best position for the final drill hole layout.

The economics of diamond drilling in exploratory prospects are centered on so many divergent factors as to make the cost difficult to assess; however, it may be safely said that the saving in time and the provision of so much detailed information are compensating factors of the greatest value.

The question of time plays an urgent part in the matter of the development of new asbestos resources today. Indeed, it may be said that it is one of the most important but least thought of efforts in everyday life, that is, "making or saving time", and yet it is one factor, amongst all others, that suffers maximum wastage.

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National Gypsum Plant Expansion

The Building Products Division of National Gypsum Company has announced an expansion program which will substantially increase the output of asbestos fibre at its plant in Thetford, Mines, Quebec, Canada.

A major portion of the program includes the installation of additional fibre-processing equipment designed to increase the present asbestos-fibre yield and significantly extend the effective life of the existing ore deposit. The program also provides for the construction of a 38,000 square foot, five-story building to house the new manufacturing facilities.

Work on the expansion program will begin immediately and should be completed during the summer of 1967.

National Gypsum incorporates asbestos fibre in many of the building products it sells. Its asbestos-cement product line includes corrugated and flat panels for industrial and commercial buildings and various types of residential home siding materials.

SWICA—The 17th semi-annual meeting of the Southwest Insulation Contractors Association was held May 12th through 14th, 1966, at Menger Hotel, San Antonio, Texas. The new directors elected are: Frank H. Taylor, to fill the unexpired term of his late father; Homer C. Porter, re-elected; William Murfin; and, Thomas Branton. Officers elected are: President—Claude E. Foster; Vice President—William Railey; and Secretary-Treasurer—Bev Chew. Homer C. Porter was elected by the IDCNA members to represent SWICA on the Board of IDCNA.

The Fall Business meeting is scheduled to be held in Tulsa, Oklahoma.

The Six Flags Inn, located between Dallas and Fort Worth, Texas, was selected as the site of the 1967 Spring Meeting to be held May 4th through 6th, 1967.



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T. C. McCluskey (1908-1966)

Theodore C. McCluskey, co-founder and President of Tallman-McCluskey Fabrics Company, died July 18th, 1966, in St. Joseph's Hospital, Kirkwood, Missouri.

Although not in good health for the past several years, Mr. McCluskey had continued to be active in directing company affairs. From a very small beginning in 1945 and largely by his own efforts, he built Tallman-McCluskey to its present position in the industry. The company recently embarked on a modernization program involving an increase in capitalization in further fulfillment of Mr. McCluskey's aspirations for the company.

He was a most loyal supporter of various activities of the Asbestos Textile Institute and had served as Treasurer in 1958 and Vice President in 1961 and 1962.

Mr. McCluskey was very well known throughout the asbestos textile industry and his many friends and acquaintances are greatly saddened to learn of his passing.

FIBRE TEST MANUAL—The 2nd edition of "Testing Procedures for Chrysotile Asbestos Fibre" is now available from the Asbestos Textile Institute, P. O. Box 239, Pompton Lakes, New Jersey 09442, at a cost of $7.50 each, plus postage. This second edition, as was the first, is jointly sponsored by the Quebec Asbestos Mining Association, the Mineral Fiber Products Bureau, and ATI. The work of compiling was under the direct supervision of the Fiber Testing Committee of the Institute. This 236-page new edition covers 29 tests for chrysotile asbestos fibre and supersedes the first edition that appeared in 1962.

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Automobile Sales

MAY 1966 motor vehicle factory sales from plants in the United States totaled 948,797 (passenger cars—787,768; trucks and buses—161,029). The total for May 1965 was 986,009. The total for the first five months of 1966 was 4,869,522 compared to 4,970,751 for the same 1965 period.

United States motor vehicle imports for May 1966 were as follows: new passenger cars—74,073 valued at $91,976,332; used passenger cars—568 valued at $704,239; trucks and buses—597 valued at $1,728,127; and automotive parts—valued at $37,145,644. (Automobile Manufacturers Association)

T&N HOUSING SYSTEM—Turner & Newall Limited has introduced its own industrialized housing system to help meet the need for more and better houses at lower cost. It also satisfies a demand that houses being built today should be capable of being easily and cheaply remodelled internally to meet changing patterns of living in the future. The new system is based on the principle that all the elements of a building should perform as a fully integrated structure. Its design includes a steel frame which allows the maximum degree of flexibility in structure and plan type. This house is designed to the highest thermal insulation standards and complies fully with the new Building Regulations. All the materials used have been well tried over many years and have a very considerable life span, with a consequent reduction in maintenance costs.

ALDEN A. LOFQUIST, retired Vice President of Nicolet Industries, Inc., died Friday, July 15th, 1966. He was formerly President of the Norristown Magnesia and Asbestos Company, Norristown, Pennsylvania.

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IDCNA—The 11th annual national meeting of the Insulation Distributor-Contractors National Association will be held at the Emerald Beach Hotel, Nassau, October 1st through 6th, 1966. The largest attendance and finest annual meeting in IDCNA's history is anticipated. The Board of Directors will meet on Monday morning; the Committee meetings, Conference of Regional Officers and Organizational meeting of new Associate Members will be Monday afternoon; and the three morning sessions on Tuesday, Wednesday and Thursday, will be full of vital information for every contractor and supplier in the insulation industry.

ASTM OFFICERS/DIRECTORS—The election of the following new national officers and directors for the American Society for Testing and Materials was announced at the President's Luncheon held during the 69th Annual Meeting of the Society: President—James B. Rather, Jr., Socony Mobil Oil Company; Vice President—Harold N. Bogart, Ford Motor Company; and, Vice President—Frank J. Mardulier, W. R. Grace & Company. New members of the Board of Directors elected for three-year terms are Raymond W. Fenn, Jr., Gustav C. Maasen, Willis S. MacLeod, James K. Rice, Erle I. Shobert II, and Eldridge A. Whitehurst.

ASTM SPECIFICATIONS — C222-66 Asbestos-Cement Roofing Shingles and C223-66 Asbestos-Cement Siding are available from ASTM Headquarters at $1.00 per copy.

ASTM COMMITTEE D-13 on Textile Materials wili be held at the Barbizon-Plaza Hotel, New York City, October 18th through 21st, 1966.

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Building

JUNE 1966 contracts for future construction work throughout the nation reached a value of $4,853,624,000, an increase of 5% above the total recorded in June 1965. Tight mortgage conditions have had a further impact on housing.

Nonresidential contracts were valued at $1,885,166,000 and show a 22% increase over last June. Standout performers were educational buildings and hospitals, up 33%. Manufacturing contract value advanced 19%, stores and warehouses moved up 5%, and offices gained 6%. Public and recreational buildings made large increases while religious contracts remained even.

Residential contract value, down to $1,828,280,000 and 12% below last June, represents sharp declines in all three housing categories. Apartments declined 21%, one and two family housing was off 10%, and hotels, motels and dormitories declined a further 7%.

Nonbuilding contracts, valued at $1,140,178,000, were ahead of last June by 15%. Street, highway and bridge contracts advanced 29%, dams and reservoirs together with the sewer and water group made better-than-average gains. Electric, gas and communications utility contracts, however, showed a steep decline.

FIRST SIX MONTHS 1966: Nonresidential building $9,827,449,000 up 17%; Residential building $10,579,080,000 down 1%. Nonbuilding construction $6,299,032,000 up 13%—total construction $26,705,561,000 up 8% over the first six months of 1965. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

J-M CONSTRUCTION ANALYSIS — Total construction expenditures in the United States during 1966 should reach a record $100-billion, a $5-billion increase over 1965, according to a mid-year economic review by Johns-Manville Corporation. The J-M analysis indicates that total new construction should account for $76.2-billion, some 6% higher than the $71.9-billion expenditure for 1965. An additional estimated $24-billion expenditure is expected this year for remodeling, maintenance and repair of existing structures.

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J-M CHEMTITE—All four of the piping systems that bear the name Chemtite are now covered in a 14-page brochure recently published by Johns-Manville Corporation. TR-325A describes asbestos-reinforced epoxy, phenolic, and polyester Chemtite to 4-inch ID for pressure service to 150 psi and the new 6-inch Chemtite in epoxy or phenolic for non-pressure drain and vent. All systems are recommended for highly corrosive service at temperatures from minus 50°F. to plus 300°F. It contains brief descriptions of the manufacturing process for Chemtite and the physical and chemical advantages of its use. Tabular data cover some typical applications and a 2-page fold-out Chemical Application Table contains a complete rundown on types of Chemtite recommended for specific applications. Physical design data are given along with available pipe sizes and dimensions. Available fittings are illustrated and their complete dimensions tabulated. Step-by-step installation instructions are accompanied by both photographs and drawings and a hangar spacing chart.

AIR-SHAKE BULLETIN—The operating principle of the exclusive AIR-SHAKE dust and fume fabric filter is described in a new four-page illustrated bulletin available from Research-Cottrell, Inc. Bulletin RC-723 describes the AIR-SHAKE method of cleaning dust from fabric filters and explains how peak efficiency is maintained with low operating costs, minimum maintenance, and minimum power requirement. The method is suitable for any bag fabric material and the bulletin includes a fabric selection guide.

BAUER EXHIBIT—Processing systems and equipment for grinding, pulverizing, impurity extraction, classification, dewatering, and liquids-solids separation will be displayed in Booths 322 and 324 by The Bauer Bros. Co. (Canada) Limited, at the Canadian Chemical and Equipment Exhibition. The show will be held in the Automotive Building, Exhibition Park, Toronto, Canada, September 19th through 21st, 1966.

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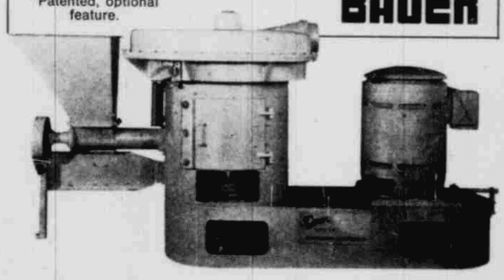
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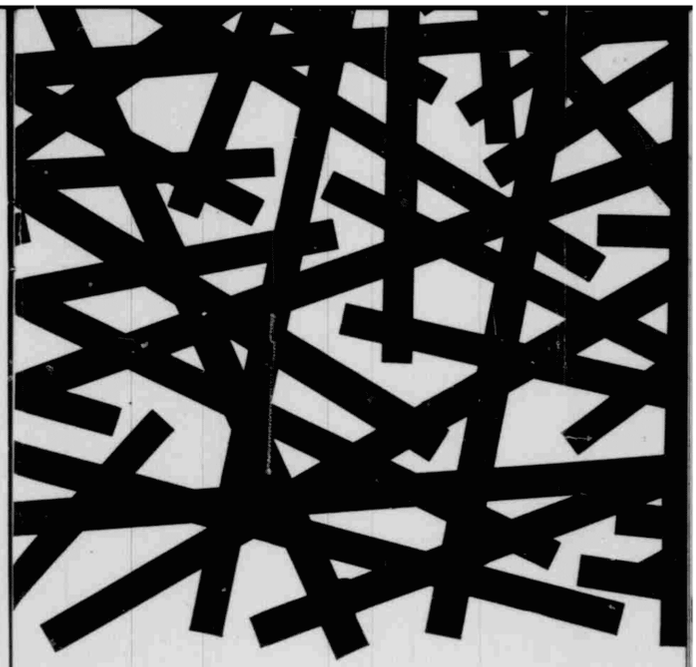
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FRICTION MATERIALS STANDARDS INSTITUTE elected the following officers for the year starting July 1, 1966, at its annual meeting in June: President—Alexander J. Bette, Johns-Manville Corporation; Vice President—John H. Kelly, The Bendix Corporation; Treasurer—Harold Hodson, The Bendix Corporation; and, Secretary—Miss Harriet G. Duschek. Other members of the board of directors serving with these officers are: Steven S. Conway, Jr., Abex Corporation; Frank T. Gatke, Gatke Corporation; Joseph W. Greenen, Grizzly Brake Division of MarPro, Inc.; William J. Vachout, Molded Materials Division, Carlisle Corporation; and, James L. McGovern, Jr., Raybestos-Manhattan, Inc.

ARMSTRONG ACCOPAC—The five most popular Armstrong Asbestos Accopac gasket materials will now be stocked with 101 Release Coating in less than 1,000 square yard minimum quantities, Armstrong Cork Company has announced. Now available in inventory with 101 Coating both sides are Armstrong AS-428 in 1/16″ gauge; AN-890 in 1/64″, 1/32″ and 1/16″ gauges; and, AN-892 in 1/32″ gauge. Purpose of inventorying 101 Coated Accopac is to enable Armstrong to supply small quantities of gasket materials on initial trial or preproduction orders.

CIAP REORGANIZATION—Cape Insulation and Asbestos Products Limited has reorganized its operations to increase the effectiveness of its highly specialized services to the thermal insulation industry. The manufacture of products directly connected with thermal insulation will be concentrated at the Acre Mill and Stirling factories and in due course the factory at Barking, Essex, will be closed. The production in the United Kingdom of certain materials not connected with thermal insulation will eventually be discontinued. In consequence, the company name has been changed to *Cape Insulation Limited*.



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MARKET CONDITIONS

General Business.

While general business continues good, the picture is not so uniformly rosy as it was in the earlier part of the year. New housing starts have slacked off substantially as have expenditures for industrial and commercial construction. There is no doubt that a major cause of this is the shortage of mortgage money at reasonable rates of interest. In view of the pressures being exerted by interested parties, it would seem likely that Government action may be taken to limit the interest rates being offered by savings and commercial banks on relatively short term deposits. It is obvious that higher interest rates have put a damper on speculative building of the "wheeler-dealer" type and this may contribute to a basically sounder economic situation over the long pull. However, those directly affected are anything but happy over present conditions. Since the general tightening of credit has, apparently, affected some areas of the economy more seriously than others, it seems fairly certain that adjustments will be made to correct these imbalances. Regardless of the final outcome, we are witnessing a rather vivid demonstration of the power of Government to regulate the economy through exercise of its controls over credit.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during June 1966 totalled 133,326 tons, an increase of 22,420 tons or roughly 22% over the same period last year. The resumption of export shipments resulting from the termination of the longshoremen's strike is the major reason for increased sales of such a magnitude. Year to date shipments at 604,205 tons exceed those of 1965 by 94,344 tons or approximately 19%.

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Asbestos—Manufactured Goods.

Asbestos Textiles. Sales of asbestos textiles continue at a high level of activity. The mills are maintaining a good order position, although the heavy backlog has caused the extension of delivery dates for certain items. The business outlook for the future remains highly optimistic, and 1966 should be a record sales year.

Asbestos Brake Lining. The present market situation for this product is excellent and should be very good for the balance of the year.

Asbestos Paper. At present, the market for this product is very good, both in demand and pricing stability. It is felt that this condition will continue for the rest of the year.

Asbestos Millboard. The volume of demand for this material is higher than it has been for some time, and this situation should remain during the coming months.

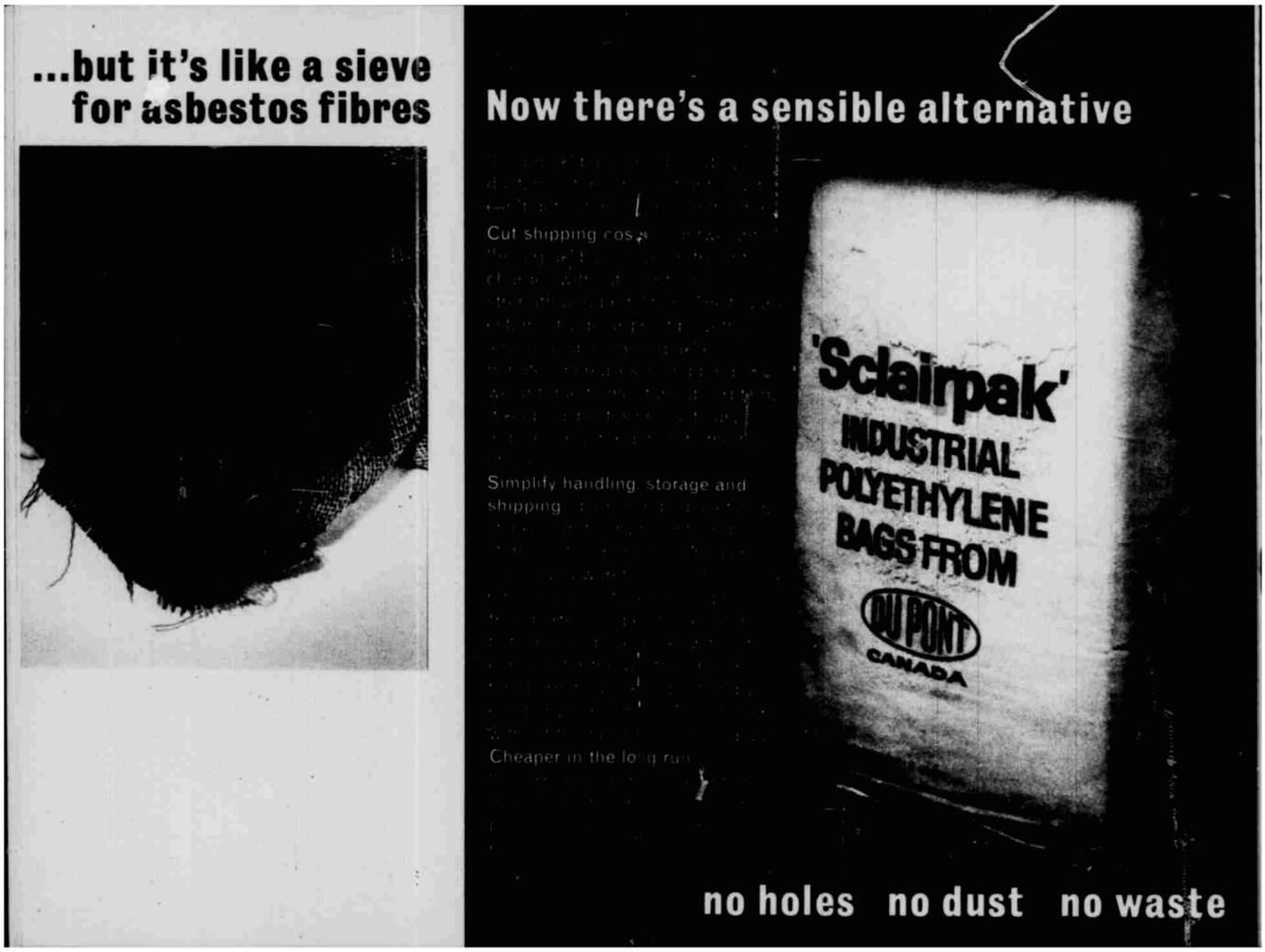
High Pressure Insulation. Currently, the market for high temperature insulation is very strong. Manufacturing cycles are quite extended and the settlement of strikes has increased demand. The remainder of this year should continue to be very good.

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

A TIME CAPSULE containing a sample of 1966 culture was buried recently beneath the Calder stabile in the new McDermott Court on the Massachusetts Institute of Technology campus in Cambridge, Massachusetts. Filled with a wide assortment of microfilmed documents and other memorabilia, the 150-pound, 6-foot long capsule was electronically lowered into its "crypt". The capsule consists of an inner pyrex tube inside a copper tube. The outer casing consists of a *Transite* asbestos-cement pipe supplied by *Johns-Manville Corporation.*

A gunny sack may be O.K. for holding potatoes...




...but it's like a sieve for asbestos fibres
Now there's a sensible alternative
Cut shipping cos
Simplify handling, storage and shipping
Cheaper in the long run
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Guildford, England

ENGLAND
Textile Improvements Ltd.
Guildford

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a subsidiary of American Smelting and Refining Company

LAKE ASBESTOS

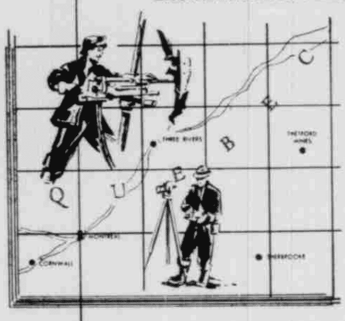
R/M BACK-UP INSULATION—An asbestos-reinforced, cork-filled, phenolic resin-impregnated laminating material has been developed by Raybestos-Manhattan's Aerospace Division for aircraft, missile, and rocket applications. Especially recommended for use as back-up insulation for solid propulsion rocket motors, *R/M Style 23-RPD Pyrotex* is a "B"-stage laminating felt manufactured from carded, long spinning grade Chrysotile asbestos fibers impregnated with a phenolic resin system.

R/M PYROTEX Non-Woven Asbestos Felts, used principally as base sheet in the manufacture of high pressure laminates, are described in a four-page catalog published by the Asbestos Textile Division of Raybestos-Manhattan, Inc. It defines Pyrotex as an asbestos textile produced by the carding process and made from the spinning grades of asbestos fiber which distinguishes it from asbestos paper products.

R/M SPECIFICATION CHART lists physical properties of Raybestos-Manhattan's Pyrotex Felt No. 9372, which is impregnated with a phenolic resin system and laminated for use as a structural and thermal insulator where temperatures range as high as 700°F. In laboratory tests, a ⅛-inch thick sample proved to have a flexural strength of 26,620 psi after exposure to 500°F. for 24 hours. The new chart includes data on tensile, flexural, compressive, shear and impact strengths, water absorption, thermal conductivity, dielectric properties, and other pertinent design factors.

R/M ASBESTOS CLOTHS—Specifications of general purpose, metallic and non-metallic asbestos cloths for use in high-heat operations are described in a new catalog published by the Asbestos Textile Division of Raybestos-Manhattan, Inc. R/M's specialized fabrics, designed to provide superior service in specific applications, are also described and include Glassbestos, Polybestos and Silvabestos. The four-page catalog supplies data on finish, available weights per square yard, and texture reproductions of six weaves are illustrated in full size.

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ASBESTOS ASPHALT—A chronic problem common to highways and municipal authorities is the high maintenance cost for both concrete and steel bridges caused by corrosion from water and deicing chemicals. Engineers at *Canadian Johns-Manville Company Limited* believe they have found a solution to the problem through the application of an asbestos asphalt "roofing pavement" for bridge decks. Ever increasing vehicular traffic necessitates, for safety reasons, the speedy removal of ice and snow from public thoroughfares. It is unfortunate that the most economical means of melting ice is the use of deicing chemicals which are seriously damaging concrete and steel bridge deck structures. In its work on asbestos modified high asphalt content thin overlays, Canadian J-M discovered by using water permeability testing apparatus that many of its asbestos asphalt pavements were impermeable to water penetration. The design of each bridge deck wearing course mixture should be treated as a separate, specific problem and carried out from suitable local aggregates chosen for their size, shape, size distribution and anti-skid properties. The aggregates are blended to provide a maximum compacted density. Asphalt content is determined and sufficient asbestos fibre added to insure stability. The asphalt content is higher by 25-50% above standard optimum where no asbestos is used. One of the significant advantages of this type of asphaltic mixture on bridge deck applications is the short time that is required before traffic can again use the new surface. As soon as the finishing roller has completed its task and moves on, the lane can be opened to traffic.

BENJAMIN FOSTER COMPANY, manufacturers of coatings, sealants and adhesives for thermal insulation, have awarded a contract for the construction of 17,000 square feet of expanded manufacturing and warehousing facilities in Houston, Texas. The new plant will be located adjacent to super highways and railroad sidings and will expand Foster service in the Southwest.



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Flintkote Mines Ltd., Thetford Mines
P.Q., Canada

IN ENGLAND
The Flintkote Co., Ltd., Adam House
1 Fitzroy Square, London W-1, England

FLINTKOTE

PRODUCTION

Australia—PRODUCTION in 1965 of asbestos-cement sheets amounted to 33,439,000 square yards compared to 31,065,000 estimated in 1964 and 28,908,000 in 1963. IMPORTS of asbestos in 1965 reached a total of 51,721 short tons valued at $5,859,000. This compares with 1964 imports of 42,895—$4,872,000 and 1963 imports of 36,628—$4,212,000.

British Columbia—Including fuels and structural materials, the value of British Columbia's mineral output in 1965 was a record $280.4-million, an increase of $13-million over 1964. In industrial minerals, the value of asbestos production rose to $14,491,195 from $11,714,494. In 1965, 85,851 tons of asbestos were produced.

Canada—APRIL 1966 asbestos production amounted to 129,572 tons compared to 114,254 in April 1965. Total for the first four months of 1966 is 432,160 compared to 329,512 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa)

Southern Rhodesia—Statistics on Rhodesian mineral production for the last quarter of 1965 have not been released. Output of asbestos during the first nine months of the year reached 129,308 short tons, compared with 112,961 tons in the corresponding period of 1964 and 153,451 tons in the full year 1964.

SIX MONTH REPORTS

AMERICAN SMELTING AND REFINING COMPANY net earnings for the first six months of 1966 rose 15% to $28,940,000 compared with $25,145,000 for the same period last year.

H. K. PORTER COMPANY, INC. reported net sales of $150,813,508 for the first six months of 1966 compared with $140,800,326 for the same period in 1965. Net income after taxes amounted to $4,518,413 against $3,231,955.

TURNER & NEWALL LIMITED and its subsidiaries for the first half year to March 31st, 1966, reported profit after taxation of £4,820,000 compared with £5,040,000 for same 1965 period. Profit attributable to T&N is £4,660,000 against £4,880,000.

JOHNS-MANVILLE CORPORATION set new records for the first half of 1966 with sales of $245,063,000 compared with $214,659,000 for the same period in 1965 and earnings of $17,870,000 against $12,768,000. Increased sales reflect growth of the general economy, growing worldwide demand for asbestos fiber and continuing strength in most segments of the construction industry.

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IMPORTS & EXPORTS

Exports From U.S.A.

(Figures from U.S. Department of Commerce) APRIL 1966

Unmanufactured Asbestos:

Crudes & Spinning Fiber	s.tons	261	$ 51,108
Non-Spinning Fiber	s.tons	1,967	293,512
Waste & Refuse	s.tons	815	68,981
		3,043	$ 413,601

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	2,382,468	$ 206,976
Other A-C Articles	Lb	907,147	83,281
Gaskets & Packing	Lb	456,673	473,421
Textiles & Yarns	Lb	209,449	91,472
Mfrs other than Friction materials		..	421,749
Clutch Facings	No	108,838	113,798
Brake Linings	Lb	676,374	518,673
			$1,909,370

Rhodesian Exports—Eports of crude asbestos in 1964 totalled 177,821 tons, of which 46,364 tons were destined for the United Kingdom. Data on 1965 exports have not been issued but it is believed the United Kingdom continues to be the principal market as Rhodesia's largest asbestos mining units, Shabani-Nil Desperandum and Gaths-King, are controlled by Turner & Newall Limited.

The Mineral Industry of Canada, by Lester G. Morrell (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 15¢)—The U.S. $3,180-million estimated value of Canada's mineral production in 1964 represents an increase of nearly 13% over the previous year's U.S. $2,822-million. For the fifth successive year, production of asbestos established a new Canadian record. Asbestos accounted for 4.3% of the 1964 total output value of U. S. $137.3-million.

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Glebe, N.S.W., Australia	Chemical Materials, Ltd.
Wien, Austria	Robert Weisz
Taipei, Taiwan, China	Ziang Tai Mercantile Company
Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Mas Aue
Paris, France	Compagnie Commerciale de Minerais Et Matieres Premieres
Duisburg, Germany	Deutsche Asbest-Gesellschaft G.M.B.H.
Lubeck, Germany	Pinsehl Erzgesellschaft
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J. Deutsch
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	IHL-Hung Trading Co.
Haarlem, Netherlands	Chemische Productenhandel J. J. Van De Vrande
Auckland, C.I., New Zealand	Neill, Cropper & Company, Ltd.
Durban, South Africa	John Beith Pty. Limited
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	Interirade
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.

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Exports From Canada

(Published by Dominion Bureau of Statistics) MARCH 1966

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,501	27,141	48,837
United Kingdom	..	186	4,600	3,648
South America	..	..	1,616	133
Cen. America & Mexico	..	10	1,090	165
Europe	..	466	8,397	2,629
Japan	..	40	11	280
Other Countries	..	211	2,748	637
	..	2,414	45,603	56,329

Total Unmanufactured Asbestos—104,346 Valued at—$12,647,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 47,000
Asbestos-Cement Building Materials	49,000
Asbestos Basic Products, Other	49,000
	$ 145,000

APRIL 1966

Unmanufactured Asbestos:

Short Tons

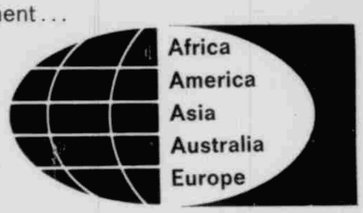
	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	5	1,374	13,550	40,077
United Kingdom	..	229	4,446	2,466
South America	..	126	4,530	689
Central America & Mexico	..	..	1,110	165
Europe	1	621	15,350	9,938
Japan	10	123	972	1,508
Other Countries	..	35	10,466	888
	16	2,508	50,424	55,731

Total Unmanufactured Asbestos—108,679 Valued at—$13,429,00

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 26,000
Asbestos-Cement Building Materials	88,000
Asbestos Basic Products, Other	86,000
	$ 200,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

Richard B. Hazard, Vice President, Rubber & Packing Sales, Raybestos-Manhattan, Inc., Passaic, New Jersey, August 17.
Albert H. Fay, Vice President-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, Canada, August 30.
Allan E. Daly, Vice President-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, Vice President-Sales, Industrial Products Division, The Ruberoid Co., New York City, September 2.
G. E. C. Pease, Director, Cape Building Products Limited, Cowley Bridge Works, Uxbridge, England, 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, Pa., September 5.
Frederick K. Sweeney, Senior Vice President, The Ruberoid Co., New York City, September 5.
J. L. (Jerry) Mitchell, Textile Consultant (formerly with H. K. Porter Company), Charlotte, North Carolina, September 7.
R. 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.
Robert W. Winson, Manager, Munro Mine, Canadian Johns-Manville Company Limited, Ontario, Canada, September 13.

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MINES AND MILL IN GILA COUNTY

Malaysia—United Asbestos Cement Limited is erecting a Malaysian $11-million asbestos plant at Tasek near Ipoh as a joint venture with James Hardie Asbestos Limited, Turner & Newall Limited and the Eternit Group. This asbestos plant, the third to be established in Malaysia, is expected to begin operating in late 1966.

Asbestos Corporation Limited—As part of a preliminary construction program, a contract has been awarded for the construction of housing facilities for the Asbestos Hill project, 30 miles south of Deception Bay, Ungava, Quebec, Canada. Reserves are given as 15 to 20-million tons of high grade asbestos and the production target is 100,000 tons of asbestos annually in 1970.

McAdam Mining—Future development plans for the asbestos property in the Chibougamau district of northwest Quebec, include the erection of a pilot treatment plant and the milling of a 100,000 ton bulk sample. The total cost of this stage would be about $1.2-million. Results from the 10-ton sample from the "A" zone indicated that a better recovery fibre grade was to be expected, in comparison with that achieved from the milling of drill core. Financing for placing the property on a full production basis has been assessed at $17.5-million, and tentative negotiations are now in progress.

Sapawe Gold Mines Limited is seeking to arrange a working option agreement with another mining company that would provide for the exploration of its new asbestos property at St. Marcel, 35 miles east of Quebec City, Canada. The anomaly has a diameter of five miles and is especially interesting since it lies on the strike of a similar anomaly on the St. Omer property of Terra Nova Explorations. Both the Sapawe and Terra Nova properties are associated with the serpentine belt that crosses the Eastern Townships, the Beauce region and the St. Lawrence Lowlands, and on which all the producing asbestos mines of Quebec are located.

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All characteristics never reached until now.
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1966 Mining Annual Review is now available at 30/-s. from The Mining Journal Limited, 15 Wilson Street, Moorgate, London E.C.2, England. This comprehensive publication annually surveys the progress of mining in every part of the world product by product, country by country, and technologically throughout the whole mining process from prospecting through to the production and marketing of the refined product. It also contains articles reviewing the progress of approximately 150 mining companies throughout the British Commonwealth. A chapter on asbestos is included under Insulants and Refractories and covers production and trade, exploration and development, milling, marketing and usage, crocidolite and amosite, and outlook.

The Mineral Industry of Rhodesia, Zambia and Malawi, by Thomas C. Denton (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 15¢)—For the mineral industry and the whole Rhodesian economy, conditions generally were good in 1964. Production of asbestos in 1964 amounted to 139,208 metric tons and was valued at $19.2-million, $2.4-million higher than in 1963. Rhodesian exports of raw minerals, refined copper, and gold bullion in 1964 were reportedly valued at $76.7-million, of which asbestos accounted for 36.6%.

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No spoilage by contamination.
No storage problems—
indoors or outdoors.
Not to mention
30% less tare weight.



And talk about tough! We've successfully test-dropped 100 lb. bales of asbestos fibre, packed in MILPAC bags, six times each from 13½ feet!

Now that you've stopped to think about it, why isn't all asbestos shipped in heat-sealed MILPAC Polythene Shipping Bags? Why don't you specify that yours is?

If you're intrigued by the idea, we'd be happy to tell you more about it. Just contact: Canadian Industries Limited, Plastics, P.O. Box 10, Montreal, Quebec.

C-I-L Plastics
CANADIAN INDUSTRIES LIMITED

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ASBESTOS STOCK QUOTATIONS

Close—July 29, 1966

Advocate Mines Ltd	$ 4.20*	Nat Gypsum (Com)	31½
Asarco	59⅞	Nat Gypsum (Pfd)	87
Asbestos Corp	$23.50*	Pacific Asbestos	2⅛
Philip Carey	39	Raybestos-Manhattan	57⅛
Cassiar Asbestos	$15.00*	Ruberoid	47½
Certain-teed	16⅜	Seagrave	22½
Flintkote (Com)	17⅝	United Asbestos	$3.30*
Flintkote (Pfd)	38½	U.S. Rubber (Com)	43½
Johns-Manville	50¼	U.S. Rubber (Pfd)	152

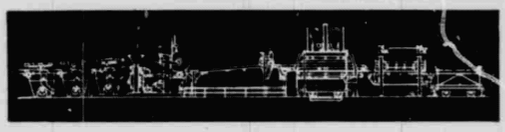
*Canadian currency

The Mineral Industry of Greece, by Roman V. Sondermayer (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, (10¢)—Greece imported 2,815 metric tons of raw asbestos during 1963 compared with 3,386 in 1962. Principal sources in 1963 were Rhodesia & Nyasaland, Canada, South Africa and France.



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



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pressure pipes
socket pipes
flat sheets
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287 Delmenhorst/Germany
Linoleumstr. 3 / P. O. Box 209
Tel. 45 91 / Telex 024 4874

AMERICAN SMELTING & REFINING CO.

Ralph L. Hennebach has been elected an Executive Vice-President of Asarco. He began his work in the company's laboratory at El Paso, Texas, in 1941. He became a vice-president in 1963 and was elected a director in 1964.

CANADIAN JOHNS-MANVILLE CO. LTD.

Henry Montagnes has been appointed a Sales Representative for Canadian J-M's Construction Department. He will represent the company in the acoustical field and will handle its acoustical contracting operation in northern Ontario.

Joseph N. Gauthier has been appointed Superintendent of Canadian J-M's Jeffrey Mine at Asbestos, Quebec, Canada. Mr. Gauthier graduated in 1950 with a B.Sc. degree in Mining Engineering at Ecole Polytechnique, Montreal. He had been General Foreman in the company's Underground Mine and most recently had been Superintendent in the Open Pit Mine.

THE FLINTKOTE COMPANY

Joseph R. Vetromile has been appointed Sales Engineer for Flintite asbestos-cement pipe, manufactured by the Orangeburg Manufacturing Company, division of The Flintkote Company. He will handle the full line of Flintite pipe in eastern Pennsylvania and New Jersey. Mr. Vetromile has an extensive background in the municipal pipe industry, having worked in this field for thirteen years.

JAMES UNITED STEEL LIMITED

William L. Notman has been appointed General Manager of the Hall Machinery Division of James United Steel, at Sherbrooke, Quebec, Canada. Hall Machinery is a designer and manufacturer of asbestos milling machinery.

JOHNS-MANVILLE CORPORATION

Francis Maguire has been appointed Manager for Finance Planning for Johns-Manville, it was announced by Francis H. May, Vice President for Finance. Mr. Maguire, a systems analyst for the last eight years, joined J-M in 1951.

NATIONAL GYPSUM COMPANY

Rune E. Swanson has been elected to the new position of Vice President-Finance for National Gypsum, and **Roswell C. Goerbing** was elected Controller replacing **Richard H. Means** who has elected to take an early retirement after 24 years of service. In a related move, **John L. Dickson,** assistant treasurer, will assume additional duties as Controller for the company's Building Products Division.

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RAYBESTOS-MANHATTAN, INC.

Mark A. Mosolino has been appointed Industrial Products Manager of R-M's Grey-Rock Division. He will be responsible for the management of Grey-Rock's broad line of industrial friction materials.

Milton Q. Scowcroft has been appointed Assistant Sales Manager of the Asbestos Textile Division of R/M. He will be located at the company's plant in Manheim, Pennsylvania. Mr. Scowcroft joined R/M in 1947 as New England district representative and was made district manager in 1958.

Clifford A. Mullen has been appointed mid-west representative for R/M's Aerospace Division, with headquarters in St. Louis, Missouri. He is servicing companies in the aerospace and aviation industries with R/M's reinforced plastics and fluorocarbon products.

THE RUBEROID CO.

Frederick K. Sweeney has been elevated to the position of Senior Vice President for Ruberoid. He will head a group operations section with jurisdiction over the company's building products, industrial products, and roofing granules divisions.

Joseph G. Hall has been elected Vice President of Ruberoid and General Manager of the company's building products division. He has assumed the responsibility for all manufacturing and sales activities.

SURVEYER, NENNIGER & CHENEVERT, INC.

Richard J. Balfour, Eng., has been appointed vice-president and director of Surveyer, Nenniger & Chenevert, Inc., a company owned and operated by consulting engineers. He will direct a new construction management division, which will offer complete planning, procurement, cost and progress control, supervision and management of construction activities. In addition, he will assist the company in providing a wide range of engineering services to the chemical, petrochemical and oil and gas industries.

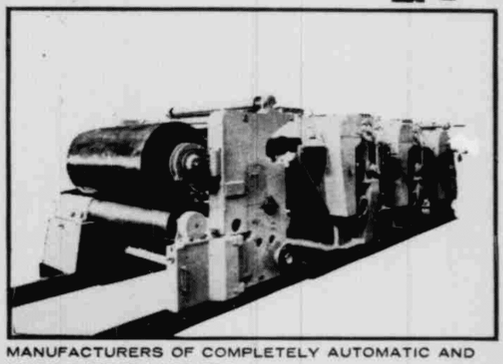
UNITED STATES RUBBER COMPANY

Walter G. Pacht has been appointed General Manager of Uniroyal Luxembourg, S.A., a textile subsidiary of U.S. Rubber. He will be in charge of product development, production and marketing of the company's fibers and textile products throughout the Common Market. Mr. Pacht, who is currently located at the Geneva office of U.S. Rubber Co., Overseas, will make his headquarters at a tire cord plant now being constructed in Steinfort, Luxembourg.

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ASBESTOS PRICES

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

(As of July 10, 1964)

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

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

(As of January 1, 1965) Canadian Currency

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

CASSIAR— Per Ton of 2,000 lbs., f.o.b. 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)		125.00

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

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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 June 14th through July 5th, 1966.

3,256,106—Sulfur Treated Asbestos, W. H. Dresher and H. F. Reichard (assigned to Union Carbide Corporation, New York City), June 14, 1966. Pre-treatment of asbestos fibre so as to substantially eliminate discoloration in tiles made from such asbestos fibre and a vinyl resin polymer.

3,257,220—Method of Manufacturing Calcium Silicate Insulating Materials, G. L. Kalousek, D. L. Bishop and R. F. Shannon (assigned to Owens-Corning Fiberglas Corporation, a corporation of Delaware), June 21, 1966. In an improved method for producing a calcium silicate insulating material, a mixture consisting of optimum proportions of chrysotile asbestos fibre, quicklime, diatomite, tripoli, and water is formed into a slurry in a container of approximately the contour desired for the final shape of the product.

3,259,516—Method of Thermally Insulating Articles With A Filled Polyurethane Composition, J. R. Dempsey and J. V. Borsellino (assigned to Thiokol Chemical Corporation, Bristol, Pennsylvania), July 5, 1966. A filled polyurethane composition suitable for use in the insulation of rockets or for other extremely high temperature applications comprises, for instance, about 100 parts by weight of a urethane prepolymer, 3 parts of triisopropanol or other polyhydric cross-linking agent, and 30 parts of crocidolite or chrysotile asbestos fibre.

Mineral Processing Patents Issued During 1965, by Oliver North ($15.00) organizes the most recent patent literature relating to mineral processing in one place for rapid reference and retrieval. The abstracts in this annual volume constitute a comprehensive resume of important United States, Canadian, and British patents issued in 1965 in the field of mineral processing including eight asbestos process patents. For a number of the patents, the book contains illustrations, flow diagrams, or equipment drawings. To the extent feasible, concordances are shown among the three countries covered. The patent literature covers a substantial amount of information not available in the journal literature and is a prime source of basic commercially utilizable information.

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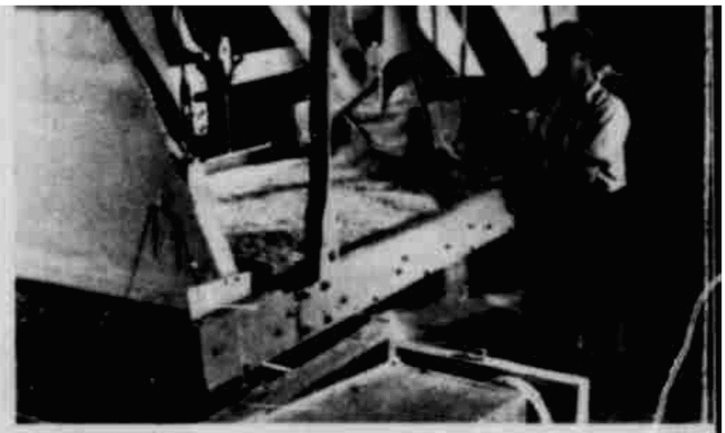
R/M Style	Navy Style	Weight/Sq. Yd.	Tensile (Lbs.) Warp	Filling
10P111	0	1.11 Lbs.	90	70
16P140	2	1.40 Lbs.	80	40
10P140	0	1.40 Lbs.	125	70
10P225	1	2.25 Lbs.	125	50

+10P111 has tensile superior to Navy style +2 with 57% cost saving, 21% weight reduction.
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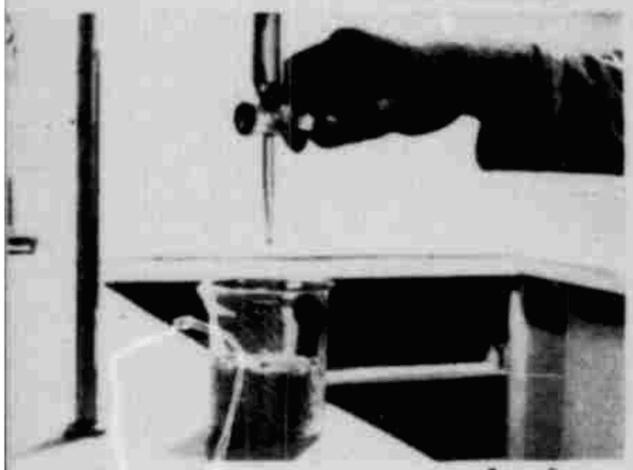
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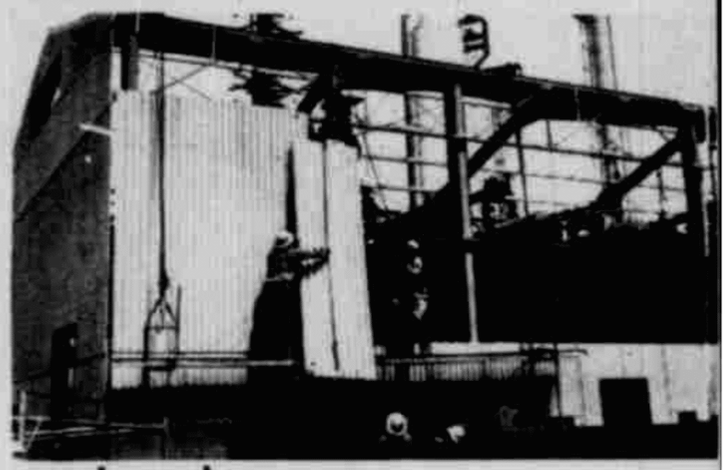
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