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ASBESTOS

VOLUME 48 DECEMBER 1966 NUMBER 6

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ASBESTOS REVIEW—1966

Anniversaries

SNC-Filer Limited, consulting engineers in Hamilton, Ontario, Canada, celebrated its first anniversary. This company was formed by Surveyer, Nenniger & Chenevert.

Everite Limited, South African producer of asbestos-cement products, celebrated its 25th anniversary in April and issued a brochure entitled "Silver Jubilee".

Thetford Mines, Canada, from February through October 1967, will celebrate its 75th birthday as a community and the 90th anniversary of the discovery there of Canada's first asbestos deposit. This celebration will tie in well with Canada's 100th anniversary and Expo '67, the universal and international exhibition which will be held from April 29th through October 27th, 1967. Taking part in Expo '67, the Quebec Asbestos Mining Association will sponsor a plaza showing a sculpture of asbestos rock and various products made from asbestos.

Asbestos Institutes/Associations

Quebec Asbestos Mining Association has opened an office in the IBM Building, Montreal.

Institute for Asbestos Information, Subiaco, Western Australia, has been formed to promote the dissemination and use of all forms of published information on asbestos to assist researchers in both industry and the academic world. In line with this, the institute has inaugurated a postal bookshop service for publications on asbestos.

Sprayed Mineral Fiber Manufacturers Association has been formed primarily to provide data on the latest materials and techniques in the fields of fireproofing, thermal insulation and sound control. This new association has been brought into existence by Asbestospray Corporation, Baldwin-Ehret-Hill, Inc., Smith & Kanzler Company, and U.S. Mineral Products Company.

New Names/Divisions/Expansions

Toschi G.M.B.H. & Company K.G.—manufacturers of various Toschi asbestos-cement products; formerly Torfitwerke G. A. Haseke & Company.



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ASBESTOS CORPORATION LIMITED ASBESTOS
Thetford Mines, Quebec

Cape Insulation Limited—new name of the former Cape Insulation and Asbestos Products Limited; reorganized to increase the effectiveness of highly specialized services to the thermal insulation industry.

Societe Generale de Recherches et d'Exploitations Minieres—state-owned; exclusively devoted to the development of mining activities in Greece.

Don International S.A.—new subsidiary company in Belgium of The Cape Asbestos Company Limited; factory to be built to market DON and CAPASCO brake and clutch lining materials throughout the Common Market countries.

Turner-Monk Limited—new private company formed jointly by Turner & Newall Limited and A. Monk & Company Limited to market the T&N system of industralized house building in the United Kingdom.

Standco Asbestos Textile Company—new division of Standco Industries, Inc. for weaving asbestos products for the manufacture of safety clothing, cloth tape, yarn, packing and gaskets.

National Gypsum Company—completed agreements for long-term debt financing in the amount of $50-million; part of expansion and modernization program to give a nationwide manufacturing and marketing strength and improve operating efficiencies.

Acquisitions

Griqualand Exploration is to purchase majority interest in *Hans Merensky Trust's* asbestos interests in the Kuruman area which includes two producing mines, 17,500 morgen of proved ore resources, and modern mill in operation.

Holmes Blunt Limited, Sarnia, Ontario, Canada, acquired the shares of *Caposite Insulations Limited* formerly owned by Cape Asbestos. Caposite is now under the name "Holmes Insulations Limited".

Hall Machinery Limited, Sherbrooke, Quebec, Canada, is now the Hall Machinery Division of *James United Steel Limited*.

Research-Cottrell, Inc., Bound Brook, New Jersey, has acquired the baghouse dust collector business of *Albany Felt Company*. Albany Felt will continue expanding the

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manufacture and marketing of bags and bag fabrics used in baghouses.

Dunlop Semtex Limited has acquired a 50% holding in *Domosic*, manufacturer of thermoplastic and vinyl-asbestos floor tiles in Italy. Domosic is a subsidiary of the Mazzucchelli Celluloide Company.

Retirements

Frank J. McGrath, Vice President-Finance, United States Rubber Company, January 1 ,1966.

H. E. F. Pracy, member of Board of Directors, The Flintkote Company Limited, January 1, 1966.

J. E. Hutton, member of Board of Directors, Turners Asbestos Cement Company Limited.

Homer P. Bond, District Sales Manager, Mechanical Products Division, United States Rubber Company.

Ralph D. Williams, Vice President, Lake Asbestos of Quebec Limited, February 28, 1966.

Fred A. Manske, President, National Gypsum Company, April 30, 1966.

Charles T. Limerick, Vice President-Manufacturing, Building & Industrial Products Division, The Ruberoid Co.

R. L. Fels, Manager, Chicago District Office, Armstrong Cork Company.

C. William Pennington, Group Vice President, Consumer & Industrial Products Division, United States Rubber Company (retained in consulting capacity).

John A. Bettes, Jr., Manager, Asbestos Textile Division, Raybestos-Manhattan, Inc., July 1, 1966.

Richard H. Means, Controller, National Gypsum Company.

C. H. McNaughton, Vice President-Operations, Asbestos Corporation Limited.

John W. Brown, Senior Vice President-Sales, National Gypsum Company, November 1, 1966.

R. F. Orth, Vice President for Marketing, Johns-Manville Corporation, December 31, 1966.

Deceased

George A. Fasold—retired Director of Research, The Philip Carey Manufacturing Company, January 12, 1966.

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Earl Bolds—Base Charge man, Asbestos-Cement Division, The Philip Carey Manufacturing Company, January 24, 1966.

W. E. Sinclair—renowned author and authority on the Asbestos Industry, and Consulting Engineer for The Putten's Asbestos Corporation Limited, May 13, 1966.

John B. McCarty—Vice President & Production Manager, Pipe Division, Johns-Manville Corporation, May 14, 1966.

Alden A. Lofquist—retired Vice President, Nicolet Industries, Inc., July 15, 1966.

Theodore C. McCluskey—Co-founder & President, Tallman-McCluskey Fabrics Company, July 18, 1966.

William E. Clark—former Vice President & General Manager, Textile Division, United States Rubber Company, August 10, 1966.

It is with sincere regret that we must record the passing of these fine gentlemen. They have offered much to the industry and will be greatly missed by their associates, friends and family.

Asbestos Mines/Mills/Properties

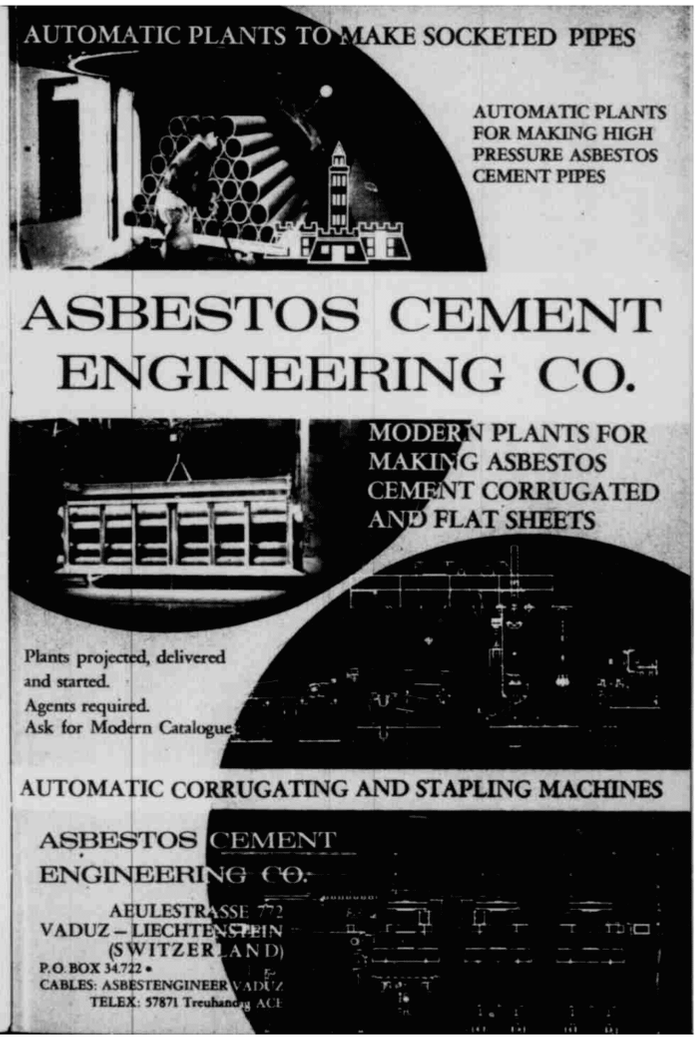
Abitibi Asbestos Mining is exploring a 12-claim asbestos prospect in Maizerets Township, Abitibi Area, Western Quebec.

Advocate Mines is constructing an improved ore concentration system and program of shallow diamond drilling has been initiated to improve grade control at Baie Verte, Newfoundland. An intensive program is being pursued to investigate mineral possibilities. Geophysical surveys have been under way at Yak Lake asbestos project.

Allied Minerals reopened the Barberton Chrysotile Asbestos property near Malelane, Eastern Transvaal, to produce grades 5, 6 and 7 from dump containing a few thousand tons of material. The existing mine plant has been renovated and modified. There is no thought at present of reopening the mine itself.

Asbestos Corporation is proceeding with the preliminary construction program at its Asbestos Hill project, Ungava.

Aylmer Mines is negotiating to sell its asbestos prospect in Coleraine Township.



Bell Asbestos Mines is planning the next stage of mine development which involves sinking a new shaft and putting into effect an overall plan of operation for many years ahead.

Campbell Chibougamau Mines is exploring a group of asbestos properties in the Rapid Bay area of Lake Chibougamau, Quebec.

Canadian Johns-Manville is developing a 5,000-acre property in Reeves Township, Ontario, as an asbestos mining and milling operation. Fiber production is scheduled to commence in 1968. J-M's Jeffrey Mine in Asbestos, Quebec, has increased fiber production capacity and improved quality of output.

Cassiar Asbestos will begin production at its Clinton Mine early in 1968. Initial production rate is to be 60,000 tons of asbestos fiber per year. Cassiar expects both of its mines will be operating at capacity by 1970 and the value of production will amount to approximately one-fifth of Canada's total asbestos production.

Ethel Asbestos Mines, Mtoroshanga, Rhodesia, and *Kalkkloof Asbestos Mine*, in the Kaapsche Hoop District, Eastern Transvaal, are suspending mining operations.

Hedman Mines is constructing a production scale plant to produce Group 7 asbestos fiber from its Warden Township property east of Matheson, Northern Ontario. Also, the company is operating a pilot mill in Matheson to test equipment, establish a flow sheet and provide asbestos shorts for market appraisal and development from its properties in Warden and Munro Townships.

Kosmetasbest has developed a large investment program including several plants for processing the asbestos discovered at Picely, Kosovska Mitroivca, Yugoslavia.

Lansdowne Explorations has been drilling at its Soissons Township property, about 50 miles north of Amos, Quebec. Visual examination of laboratory products suggests a value of about $8.00 per ton. Drilling has demonstrated that the property is largely underlain by a formation favorable for asbestos.

McAdam Mining has sampled and tested asbestos from its property near Roberge Lake, in Chibougamau, Quebec, and expects to erect a pilot treatment plant.

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MINES AND MILL IN GILA COUNTY

National Gypsum is working an expansion program at its plant in Thetford Mines to substantially increase output of asbestos fibre. Work should be completed during summer 1967.

Merit Oil is drilling on its asbestos deposit at Barraba, Australia, and indications show the grade and percentage to be economical.

Newmont Mining has obtained control of the Haines Junction, British Columbia, asbestos property of *Golden Gate Explorations.*

Postmasburg Cape Blue Asbestos and its affiliated company, *Groenwater Asbestos Mining,* has constructed a new mill to produce various grades of Cape Blue asbestos fibers.

Sapawe Gold Mines is exploring its new asbestos property at St. Marcel, Quebec.

Shabanie Mine has contracted for the sinking (deepening), lining and equipping of a 23-foot diameter circular shaft.

Terra Nova Explorations is drilling on its new asbestos discovery in LaFontaine Township, Quebec.

Cyprus — Asbestos deposits in the Pharmakas-Kalavasos area are reported as having no indications of any economic value.

Ethiopia—Samples from an asbestos deposit discovered in the Harrar area last year has reportedly been sent to the United States for analysis. Activity in proving magnitude of the deposits discovered near Adola in 1964 are proceeding slowly.

Asbestos Factories/Plants

British Belting & Asbestos—started production at its new asbestos yarn manufacturing unit at West Auckland.

Certain-teed Products—officially opened its new asbestos-cement pipe manufacturing plant at Riverside, California.

Everite—erecting a new factory at Brackenfell, South Africa, for the production of six-meter asbestos-cement pipes.

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Hindustan Ferodo—installed new machinery to meet growth in local demand for friction materials.

Productores de Arenas Industriales—producing raw materials for manufacture, including asbestos-cement products. The plant is located in Corralitos, Jimenez, Chihuahua, Mexico, and a total output of ten tons per hour is expected.

SEN-AC—asbestos-cement plant in Senegal, French West Africa; commenced production of water pipes and asbestos sheets.

Sri Lanka Asbestos Products—plant in Ceylon equipped with machinery for two profiles (Popular Six and Super Three) with registered trade mark Lionite.

Superconcrete Pipes—developing several new products including five-meter length asbestos-cement pressure pipes which are being produced at its Rosslyn branch, near Pretoria.

Turners Asbestos Cement—building an asbestos-cement factory on the edge of Ballyclare, between Belfast and the seaport of Larne, Northern Ireland.

United Asbestos Cement Limited—erecting an asbestos plant at Tasek, near Ipoh, Ceylon.

United Asbestos Cement Company Limited—began building material operations with the production of lightweight corrugated roofing sheets. Moulded products, asbestos-cement pressure pipes and other types of asbestos-cement sheets will be added to the range (joint venture with Turner & Newall, James Hardie Asbestos, and the Eternit Group).

Universal Asbestos Manufacturing—expanded its asbestos-cement sheet production by erecting a new plant in Bowburn, England. The Piler and De-Piler for the new plant was manufactured by Asbestos Cement Engineering.

Asbestos Materials

Armstrong Cork Company

Asbestos Accopac—gasket materials now stocked with 101 Release Coating in less than 1,000 square yard minimum quantities.

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Cape Building Products Limited

Glasal—new addition to products range; an autoclaved asbestos sheet material with a mineral glaze color surface.

Johns-Manville Corporation

Chemtite—asbestos-reinforced plastic drain and vent pipe and mitred fittings in six-inch diameter; recommended for highly corrosive service at temperatures from minus 50°F. to plus 300°F.

Asbestos/Asphalt—Canadian J-M engineers believe they have a solution to the problem of high maintenance costs for concrete and steel bridges caused by corrosion from water and deicing chemicals by laying asbestos modified high asphalt content thin overlays.

Vinylcraft—new flooring line with Vinyl Brick richly embossed vinyl-asbestos floor tile.

#486 Quinorgo—moderately priced high-temperature asbestos electrical insulation material for insulating and bonding applications in rotating equipment.

Metal-On—pipe covering consisting of Thermobestos insulation was used throughout the piping systems (except on the piping for the boilers)of the new fast start-up and shut-down thermal generating station at Tracy, Canada, for Hydro-Quebec.

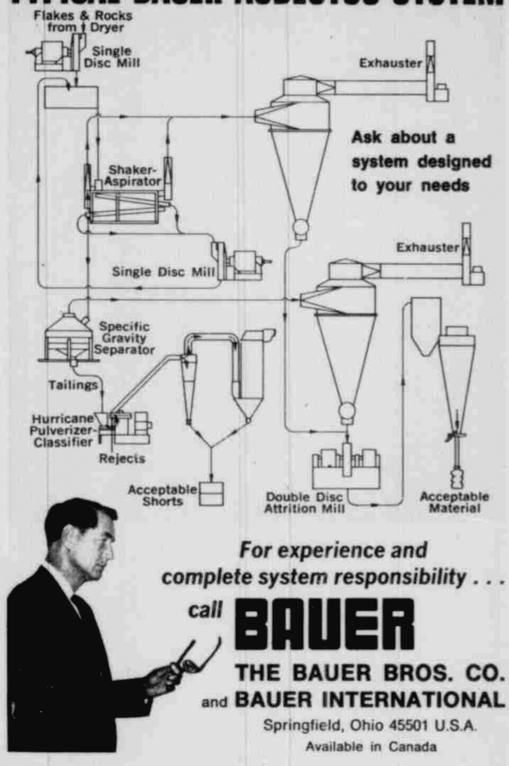
Transite—asbestos-cement pipe delivers water for artificial spawning channel in British Columbia; encases time capsule of 1966 culture buried at Massachusetts Institute of Technology.

Raybestos-Manhattan, Inc.

Molding Compound—110-RPD, new asbestos-base, dry-type molding compound; 190-RPD, new asbestos-base, phenolic resin molding compound for aircraft, rocket, missile and space vehicle applications; 310-RPD, new "B"-stage asbestos silicone molding compound composed of long spinning-grade Chrysotile AAAA asbestos fibers impregnated with a silicone resin system.

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Mark II Rat—ablation testing device; deemed capable of oxy-acetylene ablation testing of thermal insulation materials.

Pyrotex—specification charts, brochures and announcements of various Pyrotex asbestos-reinforced felts and laminating materials.

Books

Asbestos With Plastics and Rubber—by Hans Berger (translated from German by Ralph E. Oesper), $7.50 per copy.

1966 Insulation Handbook—Lomax, Erskine & Company Limited, London, England, (10'6).

Now and Then—by James D. Cumming, selection of articles from series in The Northern Miner.

Asbestos Papers/Reprints/Articles

Density of Bulk Chrysotile and Massive Serpentine—by Charles W. Huggins & H. R. Shell.

Properties of Asbestos Suitable For Use In Cellulosic Paper—by Dr. A. W. Naumann.

Analysis of Asbestos-Cement Binders—by G. L. Kalousek, F. V. Camarda, J. E. Kopanda, and Z. T. Jugovic.

General Geology and Asbestos Mineralization in the Chibougamau District—by Gilles Duquette.

Carte Miniere Du Globe Sur Fond Tectoniques—tectonic survey and mining map of the world.

Testing Procedures For Chrysotile Asbestos Fibre—Asbestos Textile Institute ($7.50 plus postage).

Experiments in Fracturing Asbestos Ore With Radio-Frequency Currents—by K. R. Piekarski.

Fibrous Silicates—by A. A. Hodgson.

Asbestos-Reinforced Plastic Pipe—by Robert E. Cryor.

Asbestos Reinforced Plastics Resist Heat and Chemicals—by Robert E. Cryor.

Use of Crocidolite Asbestos In Reinforced Plastics—by Robert E. Cryor.

Base Minerals of South Africa—by Peter Holz.

Mineral Facts and Problems—1965 edition, encyclopedia of mineral resources, U.S. Bureau of Mines ($6.75 per copy; separate Asbestos Chapter preprint, 10¢).

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Evaluation of An Asbestos Deposit—appeared in October 1966 Mining Magazine.

During 1966, ASBESTOS received and recorded many booklets and brochures issued by government agencies and asbestos companies. These publications contained such data as production, import and export statistics, new products containing asbestos, improved asbestos products, new processes, etc. ASBESTOS will be glad to obtain copies of any of these booklets upon request.

Briefly, and in compact form, you have just read of the events in the Asbestos Industry which have been recorded in ASBESTOS. Activity is keen in discovering new asbestos properties and enlarging present mines and mills, factories are being built throughout the world to meet the demand for various asbestos products, and the search goes on for new uses.

We, the staff of ASBESTOS, gratefully acknowledge the support and interest shown during the past year from its various readers. This continued interest is a great boost to our constant efforts to be a good service and source of information.

We take this opportunity to say "thank you" and extend our best wishes for the holiday season. May good health, prosperity, and most of all, *peace* be realized in the world.

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Automobile Sales

SEPTEMBER 1966 motor vehicle factory sales from plants in the United States totaled 747,206 (passenger cars—621,755; trucks and buses—125,451). The total for September 1965 was 591,963. The total for the first nine months of 1966 was 7,439,834 compared to 7,946,105 for the same 1965 period.

United States motor vehicle imports for September 1966 were as follows: new passenger cars—77,375 valued at $109,905,538; used passenger cars—512 valued at $613,091; trucks and buses—8,654 valued at $7,100,707; and automotive parts—valued at $42,376,088. (Automobile Manufacturers Association)

EXPO '67—From April 28th through October 27th, 1967, Canada will open her gates to the world and celebrate her 100th anniversary with a universal and international exhibition. The Quebec Asbestos Mining Association, which represents eight asbestos mining companies, will sponsor a plaza so visitors may view asbestos and see some of the products in which the mineral is used. The plaza will cover some 4,000 square feet and will be built almost entirely of asbestos mined and milled in Canada. Central attraction will be a sculpture hewn from a solid asbestos rock in its natural gray-green color. It will be about 20 feet high and will be set in a 25-foot square basin. Also, the asbestos-cement benches, patio pots, etc. will illustrate just a few of the 3,000 separate uses for asbestos in manufacturing and industry.

NOW AND THEN, by mining engineer James D. Cumming, is a selection of articles from the series of the same name which appeared over a span of twelve years in *The Northern Miner*. Effort has been made to recreate the mining flavor through a happy blending of the North and Bay Street. There are touches of humor, whimsey, nostalgia and philosophy.



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1 Fitzroy Square, London W-1, England

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QUEBEC ASBESTOS MINING ASSOCIATION has opened an office in Montreal, Canada, at Suite 1210, IBM Building, 5 Place Ville Marie. This new office does not affect the association's activities at its head office in Quebec City.

ASTM COMMITTEE WEEK—Statler Hilton Hotel. Detroit, Michigan, February 5th through 10th, 1967.

ASTM COMMITTEE C-17 on Asbestos-Cement Products—Admiral Semmes Motor Inn, Mobile, Alabama, January 31st through February 2nd, 1967.

ASTM COMMITTEE D-13 on Textile Materials will be held at the Barbizon-Plaza, New York City, February 28th through March 3rd, 1967.

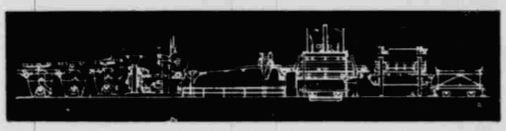
IDCNA's 11th annual national meeting, held at the Emerald Beach Hotel in Nassau from October 1st through 6th, 1966, was the best attended meeting in the history of this national association of insulation contractors. The business sessions were called to order on October 4th by IDCNA President Dillard Breeding. Three morning sessions were held on October 4th, 5th and 6th. An announcement was made of the acceptance of Associate Members into the association. The new officers are: President—J. Kenneth Dixon; Vice President—A. Marvin Gibbons; Secretary—Conrad L. Wiegers; and, Treasurer—Aertsen P. Keasbey, Jr.

The Board of Directors will hold its first meeting at the Hilton Inn, Atlanta, Georgia, January 13th, 1967.

The 1967 annual meeting will be a joint meeting with the Thermal Insulation Association of Canada and will be held at the Queen Elizabeth Hotel, Montreal, Canada, July 2nd through 9th, 1867 (tying in with EXPO 67).

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Building

OCTOBER 1966 total value of all construction contracts was down 6% as a result of the exceptionally low rate of housing activity during the month. Despite continued l. ge gains in most types of nonresidential construction, the further weakening of the nation's housing market held the October total of contracts for future work to $4,106,093,000. Contract statistics showed further movement along the direction that construction has been taking ever since early Spring, when credit scarcity began to distort this market. The year's cumulative increase in total contract value reached a high of 11% at the end of March, and has since dwindled steadily to the current 4% as the homebuilding situation has become progressively worse. The consequences of this trend are getting more and more apparent, not only in reduced outlays for construction in progress, but in declining construction employment, reduced orders and output of building materials, and in rising contractor failures.

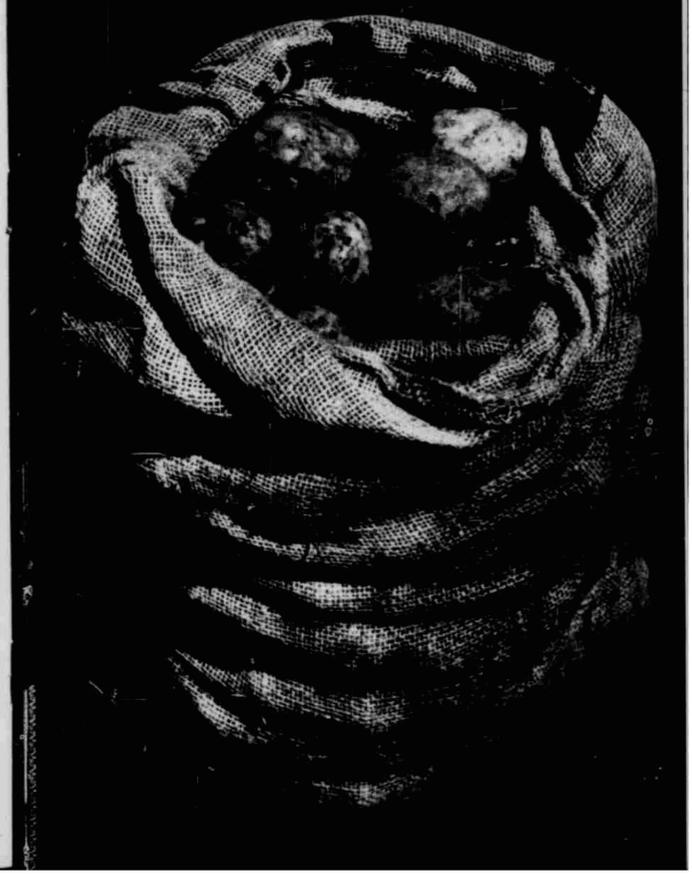
Nonresidential building contracts, valued at $1,795,683,000, reflected a 14% gain stemming from heavy activity in educational, hospital, and public buildings. The combined total of industrial and commercial building contracts nearly equalled last October's total amount. A gain in manufacturing plant projects, however, was offset by a decline in store building.

Residential building contracts totaled only $1,224,753,000—a 35% decline from last October. Large losses were shown in every major housing category. One-family housing contract value was down 39%, apartments were off 29%, and nonhousekeeping residential building fell 22%.

Nonbuilding construction contracts totalled $1,085,657,000, a gain of 24% supported mainly by highway and bridge contracts, and by another substantial increase in electric utility projects.

FIRST TEN MONTHS 1966: Nonresidential $16,732,877,000 up 15%; Residential $15,855,940,000 down 13%; Nonbuilding $11,063,659,000 up 19%—total construction $43,652,476,000, up 4% over the first ten months of 1965.

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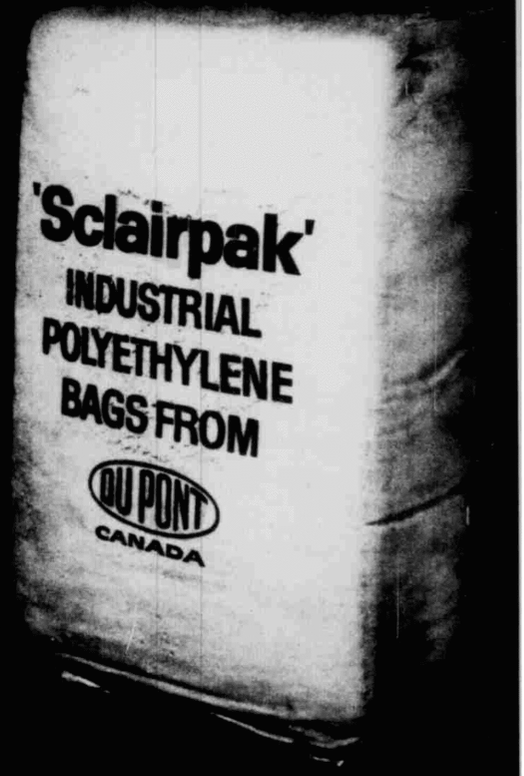


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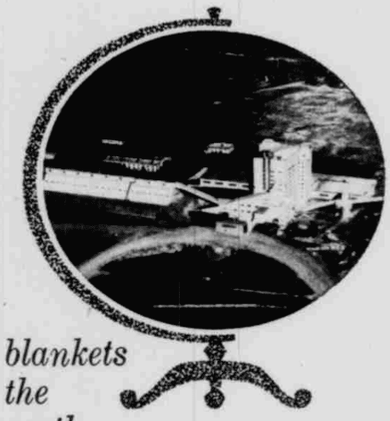
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NICOLET INDUSTRIES, INC., Florham Park, New Jersey, a major American manufacturer of monolithic asbestos-cement products, has announced the appointment of *Fabritron, Inc.*, 11650 Genesee Street, Alden, New York, as a service unit for the fabrication and sale of these products. The products include KolorMate, a monolithic asbestos-cement sheet which is finding great acceptance in laboratories as a heat- and chemical-resistant substitute for stone; K-M monobestos board, a heat-resistant, inorganic structural material especially designed for use as fume hoods, arc barriers, walls and ceilings; and, K-M ebonized asbestos board, which can be used in switchboards, circuit breakers and controller panels.

RTP MOLDING SURVEY—A State-of-the-Art Survey of Fiber Reinforced Thermoplastics (RTP) Molding has been prepared by the Plastics Technical Evaluation Center which contains procedures and performance data to assist the engineer-designer in selecting the appropriate type of RTP to fit his needs. The report notes that the military has many applications for plastics which perform under specific adverse conditions encountered during storage, shipping, and service. It indicates that RTP should be considered for such uses when conventional thermoplastics are not acceptable. Glass and Asbestos fibers are some of the materials chiefly applicable to the process.

Copies of Stock No. AD-637 721, "Fiber Reinforced Thermoplastics: Applications, Molding Techniques, and Performance Data" are available at $3.00 from Clearinghouse, U.S. Department of Commerce, Springfield, Virginia 22151 (microfiche 75¢).

CAREY EXHIBIT—Visitors to Booth No. 662 at the Plant Engineering and Maintenance Show, in Chicago, Illinois, January 30th through February 2nd, 1967, will see and hear about *Careytemp* insulations developed and manufactured by The Philip Carey Manufacturing Company. The entire Careytemp line will be on display as well as appropriate Philip Carey roofing, siding and coating products for industrial applications.



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Taipei, Taiwan, China	Ziang Tai Mercantile Company
Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	Compagnie Commerciale de Minerais Et Matieres Premieres
Duisburg, Germany	Deutsche Asbest-Gesellschaft G.M.B.H.
Lubeck, Germany	Possehl 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.	Intertrade
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.

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MARKET CONDITIONS

General Business.

While general business continues good there are definite signs that a plateau has been reached and the rate of growth in the economy has slowed perceptibly. The rate of new housing starts has dropped to the lowest point in some years and this presages a drop in demand for building materials of all kinds. As this is written, car manufacturers have announced lower production schedules for 1967 models as sales have slowed and dealers' inventories have risen recently. The results of the recent election indicate, rather strongly, that the general public is lacking confidence in the Administration's policies which, despite statements to the contrary, have not succeeded in halting inflationary trends throughout the entire economy. It is interesting to note that the "something for nothing" legislation that was enacted shortly before the election did not result in swinging any appreciable number of votes to the "in" party. While the preponderance of opinion is not predicting a serious recession, it is suggesting that the boom has levelled off and somewhat more cautious policies on the part of businessmen and individual investors are the order of the day.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during October 1966 totalled 109,922 tons, a reduction of 4,515 tons or approximately 4% over the same period last year.

Year to date shipments at 1,063,259 tons exceed those of 1965 by 112,599 tons or roughly 11%.

Asbestos—Manufactured Goods.

Asbestos Textiles. Asbestos textile manufacturers are operating their facilities at peak capacity in view of the firm market for a broad range of asbestos yarns and fabrics. As the final production figures for 1966 become available,

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it is evident that the asbestos textile industry will experience one of its best years in a decade.

Asbestos Brake Lining. The present condition of the market for this material is good and this situation is expected to continue during the coming months.

Asbestos-Cement Pipes. Currently, this market is showing evidence of finishing behind the volume of usage and sales established in 1965. Primarily, this is due to a lack of interest in municipal bonds, high interest rates, and delay in Government assistance. The first quarter of 1967 appears destined to carry over the decline in water and sewer construction which began appearing in the last half of 1966. Most probably this condition will persist at least through the first two quarters of next year.

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

EVALUATION OF AN ASBESTOS DEPOSIT—appeared in the October 1966 issue of Mining Magazine. This report presents the results of an analysis of information pertaining to the reserve of asbestos ore on the property of Pacific Asbestos Corporation, near Copperopolis, California. It is thought that the attack made on the problems encountered in this work may have general utility in planning the investigation of other asbestos deposits or of other types of deposits where the results of testing the ore may show substantial experimental errors or be difficult to relate to production practice.

CAPE ASBESTOS S.A. (PTY) LIMITED has made available, to the South African Bureau of Standards, a South-African-manufactured flow resistance factor apparatus which measures the surface area of asbestos fibres. This apparatus will form part of the equipment of the new SABS Asbestos Testing Laboratory.

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ASBESTOS FIBRES

PRODUCTION

Canada—AUGUST 1966 asbestos production amounted to 164,470 tons compared to 130,784 in August 1965. Total for the first eight months of 1966 is 947,519 tons compared to 805,338 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa).

Cyprus—THIRD QUARTER 1966 production of asbestos amounted to 3,699 short tons: July—1,177; August—1,081; and, September—1,441. (Ministry of Commerce and Industry, Nicosia)

Italy—Production of asbestos increased 5% during 1965 to 72,000 metric tons, continuing the upward trend of recent years. However, local demand continued to outpace production, so that imports remained relatively high at 37,000 tons, with South Africa and Canada being the major suppliers.

Map/Australian Mineral Deposits—The Department of National Development, Canberra, Australia, has released a map showing some 1,250 known significant deposits of more than 60 minerals. The map is the second edition of the "Mineral Deposits" sheet of the Atlas of Australian Resources and is accompanied by a 24-page booklet which indicates the success of the greatly accelerated mineral exploration over the past decade or so. The map and booklet are available at 50¢.

The Mineral Industry of Basutoland, Bechuanaland, and Swaziland, by Charles L. Kimbell (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 5¢)—Commercial mineral production of the British High Commission Territories of Basutoland, Bechuanaland, and Swaziland in 1964 was again confined to relatively few commodities, of which asbestos was the most important internationally. Bechuanaland's asbestos production in 1964, at 1,960 metric tons, was all from the Moshaneng mine of Marlime Chrysotile Asbestos Corporation Limited, about 13 kilometers west of Kanye. The firm reportedly was making efforts to enter the asbestos fiber filter market, a use for which the Bechuanaland asbestos reportedly would be quite suitable because of its low iron content. Asbestos continued to rank as Swaziland's most valuable mineral product in 1964, accounting for about 86% of the total value of mineral production of $8.4-million (36,162 metric tons). The Havelock mine of New Amianthus Mines (Pty.) Limited continued as the sole Swaziland producer of asbestos, and expanded output in spite of general market weakness. The property, one of the free world's major sources of spinning grade asbestos, apparently completed the expansion program underway in 1963.

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IMPORTS & EXPORTS

Exports From U.S.A.

(Figures from U.S. Bureau of the Census)

		AUGUST 1966	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s.tons	68	$ 11,775
Non-Spinning Fibers	s.tons	1,777	234,473
Waste & Refuse	s.tons	1,138	75,314
		2,983	$ 321,562
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,236,850	$ 200,111
Other A-C Articles	Lb	993,000	148,098
Gaskets & Packing	Lb	293,424	385,881
Textiles & Yarns	Lb	65,826	69,812
Mfrs other than Friction Materials		..	439,069
Clutch Facings, including Linings	No	287,496	209,564
Brake Linings	Lb	491,806	335,229
			$1,787,764

Exports From Canada

(Published by Dominion Bureau of Statistics)

JULY 1966

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	..	1,538	14,594	30,712
United Kingdom	..	157	5,970	4,720
South America	..	87	4,241	2,135
Central America & Mexico	..	..	1,556	578
Europe	1	904	28,930	11,778
Japan	16	153	1,105	6,162
Other Countries	..	444	12,040	4,119
	17	3,283	68,436	60,204

Total Unmanufactured Asbestos—131,940 Valued at—$17,358,000

Manufactured Asbestos Goods:	
Asbestos Brake Lining & Facings	$ 35,000
Asbestos-Cement Building Materials	67,000
Asbestos Basic Products, Other	93,000
	$ 195,000

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brake linings

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AUSTRALIA
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Sydney

AUSTRIA
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Bremen, W. Germany

BELGIUM
Keyser & Mackay
Brussels

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Textile Improvements Ltd.
Guildford, England

ENGLAND
Textile Improvements Ltd.
Guildford

FRANCE
Dieppedalle & Séailles
Paris

W. GERMANY
Atlanta Bauer & Co.
Bremen

GREECE
Textile Improvements Ltd.
Guildford, England

HOLLAND
Keyser & Mackay
Amsterdam

INDIA
Metal Distributors, Ltd.
Calcutta

ITALY
Amianto Del Lago
Torino

JAPAN
C. Itoh Co., Ltd.
Tokyo and Osaka

NORWAY
Astrup & Son
Oslo

SOUTHEAST ASIA
Jardine Waugh, Ltd.
Singapore

SPAIN & PORTUGAL
Textile Improvements Ltd.
Guildford, England

SWEDEN
Aktiebolaget Ingeniorsfirman Titan
Stockholm

TURKEY
Textile Improvements Ltd.
Guildford, England

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Australia Imports—19,401 short tons of asbestos were imported during the first five months of 1966 and were valued at $2,381,000. (Bureau of Census & Statistics, Canberra)

Botswana Exports—R185,300 worth of asbestos was exported in 1965. This compares with R258,000 in 1964 and R219,030 in 1963.

Cyprus Exports—THIRD QUARTER 1966 exports of asbestos totaled 5,578 tons, valued at £241,429: July—2,352, £101,809; August—832, £35,005; and September—2,394, £104,615. (Ministry of Commerce and Industry, Nicosia)

Cyprus Exports—Exports of asbestos for the year 1965 amounted to 17,263 tons valued at £813,091. This compares with 11,317 tons valued at £570,276 in 1964.

In the Pharmakas-Kalavasos area, asbestos forms small occurrences (veins) of erratic distribution in the serpentine northeast of Vasa. However, there are no indications of deposits of any economic value in this region. (Annual Report 1965—Geological Survey Department, Nicosia)

U.S. Census Report—A gain in the percentage of United States merchandise going into the export trade was registered in 1964 over 1963, according to a report just issued by the U.S. Bureau of the Census. Copies of the report "U.S. Commodity Exports and Imports as Related to Output, 1964 and 1963", Series ES2, No. 7, are available for 60¢ each from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Greek/Yugoslavia Trade Agreement—Within the framework of a long-term trade agreement signed in Belgrade, Greece will supply various products, including 1,000 tons of asbestos, to Yugoslavia over the period October 1st, 1966, to September 30th, 1967.

INVITATION

Anyone in the Asbestos Industry, either in mining, processing, end-user or financier, can still be a business tycoon in his chosen line. By investing, a neglected asbestos deposit in R.P., one of the biggest in the world, can be developed. Approved by our Bureau of Mines, Canada, Belgium, Germany and Japan. For particulars, wire or write: DR. FELIX B. ACEBEDO, P.O. Box 2280, Manila, R.P.



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INDUSTRY NEWS

HAPPY BIRTHDAY

Andrew S. Halley, Senior Vice President, Fibreboard Paper Products Corporation, San Francisco, California, December 18.
John A. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, December 18.
George J. Pecaro, President & Chief Executive Officer, The Flintkote Company, New York City, December 20.
Harry C. Redstone, Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.
Edwin E. Hokin, President, Unarco Industries, Inc., Chicago, Illinois, December 21.
Robert L. Clark, Treasurer & Chairman, The Clark Asbestos Company, Cleveland, Ohio, December 22.
Donald G. Hamme, Director of Research & Development, National Gypsum Company, Tonawanda, New York, December 24.
Joseph J. Kelly, Secretary-Treasurer, Western Asbestos Company, San Francisco, California, December 25.
J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.
M. J. Warnock, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.
Fred A. Mett, President, Powhatan Mining Corporation, Baltimore, Maryland, December 29.
Philip S. Nash, Vice President, Unarco Industries, Inc., Chicago, Illinois, December 31.
Vincent W. Drumb, Industrial Relations Representative, The Ruberoid Co., New York City, January 2.
Robert G. Beldam, Chairman & Managing Director, Beldam Asbestos Company Limited, Hounslow, England, January 3.
Stephen Derek Hungerford Pollen, Deputy Chairman, The Cape Asbestos Company Limited, London, England, January 4.
William L. Keady, Director, Fibreboard Paper Products Corporation, San Francisco, California, January 5.
Rupert St. George Riley, Director, The Cape Asbestos Company Limited, London, England, January 6.
M. E. McCrosson, Vice President, Textile Division, The Russell Manufacturing Company, Middletown, Connecticut, January 7.
Harold F. Lundby, Advertising Manager, Building Products Division, The Ruberoid Co., New York City, January 8.
Edward H. Wells, General Manager, Packings & Friction Materials Division, Johns-Manville Corporation, New York City, January 8.

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

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Board of Trade Building · Chicago · Illinois 60604 USA
Tel: (312) 922–7435
(Members of the Cape Asbestos Group of Companies)

Cyprus Asbestos Mines Limited—2,151,575 tons of rock were quarried during 1965, production amounted to 8,462 tons of long grade and 7,271 tons of short grade fibers, 3,521 tons of long grade and 1,712 tons of short grade were held in stock at the end of the year.

Ethel Asbestos Mines, Mtoroshanga, Rhodesia, has for the past fifteen years, sold the whole of its production on overseas markets. Due, however, to the marginal recovery leading to technical difficulties and increasing costs in continuing to produce asbestos of an acceptable grade, and to the increasing availability at lower rates of satisfactory asbestos from alternative sources, it has been decided that it is no longer economical to maintain operations nor to compete with present overseas grades and prices of asbestos. The company has, therefore, reluctantly decided to close the mine.

Golden Gate/Newmont—By agreement dated September 30, 1966, Newmont Mining Corporation of Canada has obtained control of the Haines Junction, British Columbia, asbestos property of Golden Gate Explorations. Newmont can earn a 60% interest providing it carries through to production, decision as to which must be made by November 1, 1969. In the next year, Newmont must spend not less than $50,000 on exploration and development; in the following year not less than $150,000; and, in the year ending November 1, 1969, a minimum of $300,000.

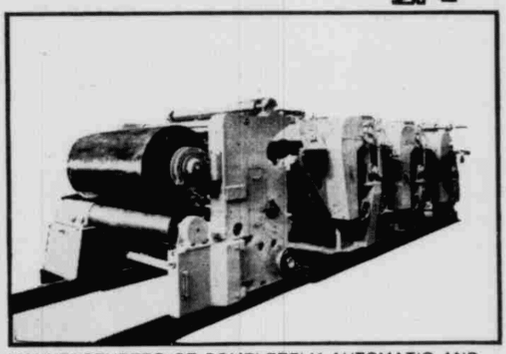
Kalkkloof Asbestos Mine, in the Kaapsche Hoop District, Eastern Transvaal, South Africa, will suspend mining operations as soon as current sales commitments have been met, which will be approximately at the end of December 1966. Arrangements are being made to place the mine on a care and maintenance basis pending further consideration of its future. The owners, Johannesburg Consolidated Investment Company Limited, Johannesburg, have reported a loss, notwithstanding improvements in fiber recovery and small increases in selling prices of fibre. Increasing working costs are outstripping higher prices which are currently being received from the sale of fibre.

Merit Oil/Australia—Merit Oil Limited's asbestos deposit at Barraba, Australia, contains several interesting mineral occurrences and all known asbestos showings in the Eastern Serpentine Belt. Progress has continued and 21 drill holes have now been completed which outline a fiber zone with a 20-million ton potential. The only deep hole to date has clearly indicated that the fiber zone is continuous to a depth of at least 700 feet, and good surface fiber showings exist at the northern extension of the fiber zone. All 21 holes intersected asbestos fibre and the grade and percentages are presently being calculated. Present indications show the grade and percentage to be economical.

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Statistical Summary of the Mineral Industry, including Commonwealth and World production, exports and imports of asbestos for the years 1959 through 1964, has been issued by Overseas Geological Surveys, Mineral Resources Division, London, England. Copies are available from Her Majesty's Stationery Office at a cost of £1.07.06.

Ontario 1964—The Annual Report for the Year 1964 has been issued by the Ontario Department of Mines and contains statistics of the mineral industry and mining operations in Ontario. Included is a chapter on asbestos which covers production and other data concerning Canadian Johns-Manville's Munro Mine and Reeves property, and Hedman Mines' asbestos property.

Regional Mineral Industry Review of Africa, by Thomas C. Denton and William C. Henkes (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, 10¢)—Africa produced 373,270 metric tons of asbestos during 1964, a contribution of 19.1% of non-Communist world production and 11.6% of world production. During 1963, African contributions to mineral imports into the United States was 37,296 metric tons (6.15%), European Economic Community 71,294 metric tons (22.8%), United Kingdom 82,662 metric tons (51.6%), and Japan 29,826 metric tons (25.8%).

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ASBESTOS STOCK QUOTATIONS

Close—November 30, 1966

Abex Corp.	28¾	Flintkote (Pfd-B)	37
Advocate Mines	$ 3.30*	Johns-Manville	48
Asarco	57½	Nat Gypsum (Com)	26
Asbestos Corp.	$19.25*	Raybestos-Manhattan	53⅛
Cassiar Asbestos	$15.12*	Ruberoid	44
Certain-teed (Com)	13½	Seagrave	15¼
Certain-teed (Pfd)	16	United Asbestos	$2.55*
Flintkote (Com)	15⅞	U.S. Rubber (Com)	40
Flintkote (Pfd-A)	73	U.S. Rubber (Pfd)	142½

*Canadian currency

CAPE ASBESTOS GROUP

Graham Roberts has been appointed Technical Services Manager of the Reinforced Plastics Division of Cape Insulation Limited. He has wide experience in the reinforced plastics field and has visited and made technical studies in America, Germany, Belgium, Holland and Austria. His knowledge and experience, gained over many years with two well known companies, will be most valuable in advising on the most effective use of a wide range of Noramite materials, and the development of their application in the reinforced plastics industry.

JOHNS-MANVILLE CORPORATION

Matthew B. Jamin has been named Director of Plant Engineering of Johns-Manville and appointed a Vice President of Johns-Manville Products Corporation. His first major assignment at J-M was supervision of the construction of the company's Research and Engineering Center at Finderne, New Jersey. He subsequently held positions as project engineer, project manager, and most recently, acting director of plant engineering.

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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 October 11th through November 8th, 1966.

3,281,308—Coated Chimney, E. G. D'Asto (assigned to U.S. Steel Corporation, Pittsburgh, Pennsylvania). October 25, 1966. To protect the inner wall of a flue or other chimney against high-temperature corrosion, the wall surface is coated with a non-shrinkable mastic consisting of unblown asphalt, chlorinated resinous paraffin, colloidal silica (the trademarked product marketed as "Cab-O-Sil"), antimony oxide, finely divided expanded perlite, minus 60-mesh asbestos fibre, minus 60-mesh mica, and polybutene oil.

3,284,378—Flame Resistant Plastic Composition, G. G. Roberts and H. Nakagawa. November 8, 1966. In the manufacture of flame-resistant plastic articles for use in ships or other rugged environments, a mixture consisting of phthalic or isophthalic acid glycerine polyester resin, a mixture of asbestos fibres and clay, chopped sisal fibres, and antimony trioxide or other fire retardant is molded into shapes, and the shapes cured. This cured composition is strong enough to resist the vibration and pounding that occur when a ship is crossing the ocean.

TURNER BROTHERS ASBESTOS CO. LTD.

D. W. Hills, formerly assistant managing director of Turner Brothers Asbestos, has been appointed Joint Managing Director. The chairman, **John Waddell,** who was formerly also managing director, now becomes Chairman and Joint Managing Director.

RAYBESTOS-MANHATTAN, INC.

Raymond E. Stauffer, Jr., has been appointed to the position of Assistant Advertising Manager, R/M's U. S. Asbestos Division, Manheim, Pennsylvania. He has previously been Advertising Account Executive for Lancaster Newspapers, Inc.

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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)	126.00

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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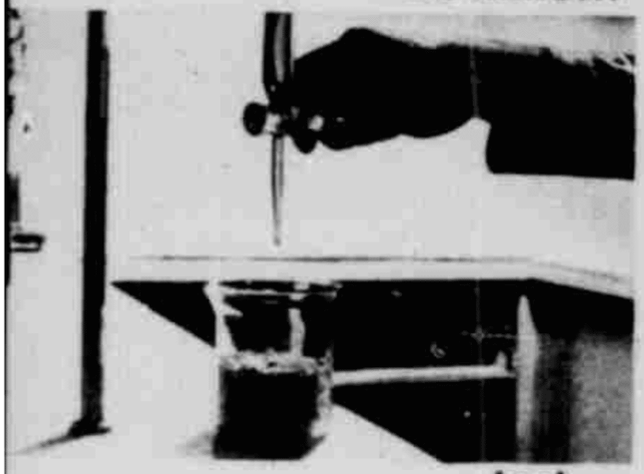
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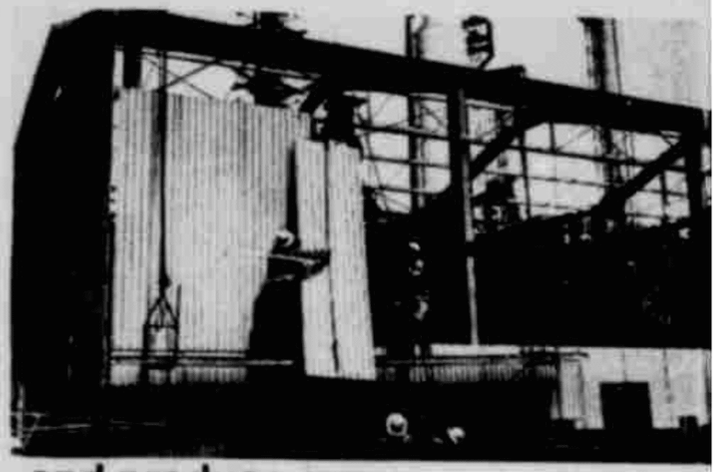
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