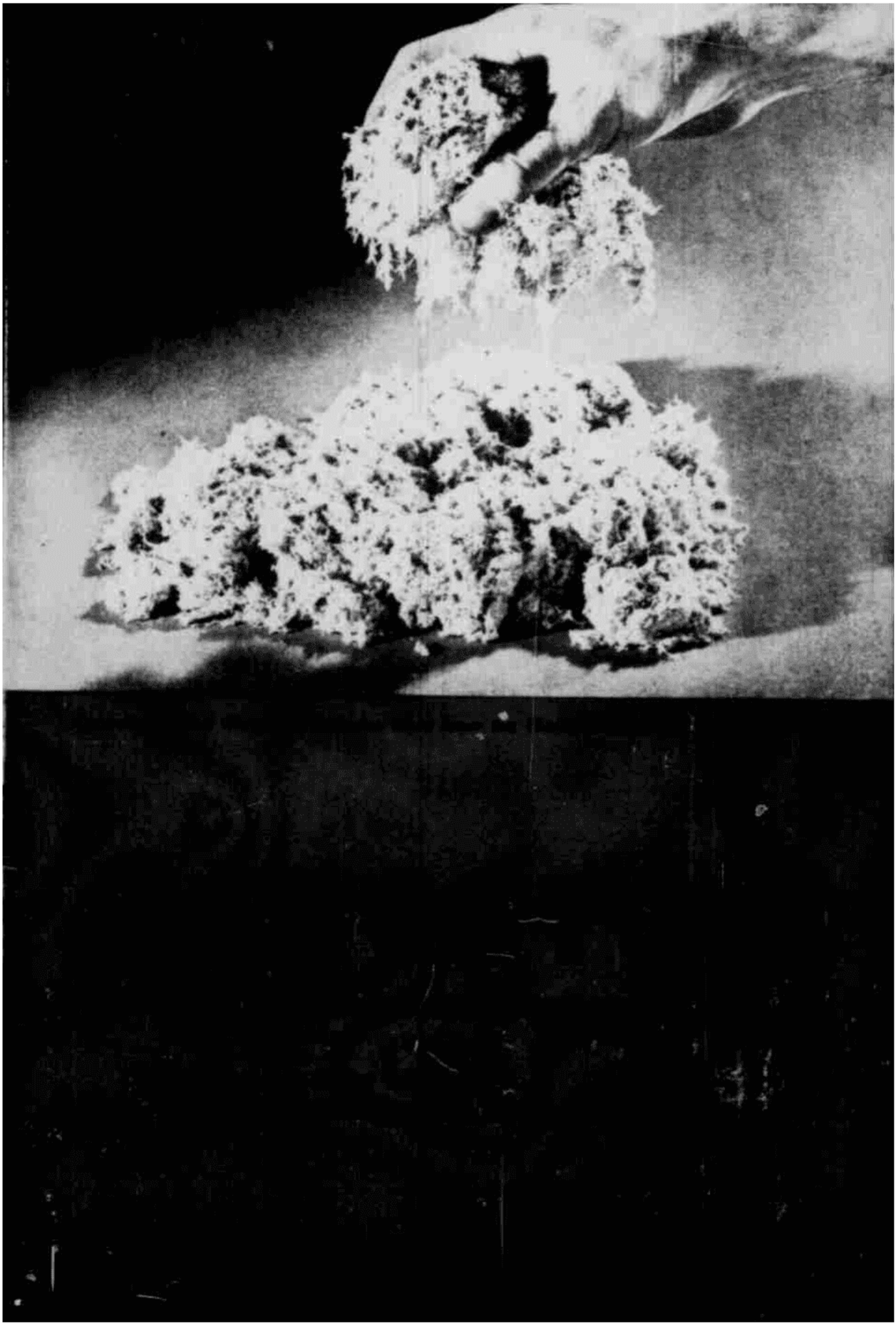


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ASBESTOS

VOLUME 48 JULY 1966 NUMBER 1

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FACTORS INFLUENCING FLOW IN PIPES — Gravity and Pressure

By: Clyde T. Norman

(Mr. Norman is District Manager of Johns-Manville Corporation, Pipe Division, New Orleans, Louisiana.)

The best approach to this subject is an objective one, to see why plumbing contractors and inspectors must know a little bit about factors influencing flow in pipe. Often engineers are asked to allow a gravity pipe to be installed at less than the required grade set by pertinent code. Many engineers and contractors just read the code to the "good ole taxpayer," and hope he is satisfied. However, often it is necessary to explain to him why he must have this grade for his own protection. It is the intent of this article to give some of the basic principles involved in determining the correct answer to this problem and to help with some suggestions to show how pipes vary as to carrying capacity.

Let's start with two formulas just to get them into the record, without any attempt to set out a long complicated derivation. The first one that is used most for gravity flow is the Manning formula. This is expressed as velocity of stream in pipe in feet per second and this $V = \frac{1.486}{n} \sqrt[3]{R^2} \sqrt{S}$ where "n" is the coefficient of roughness, "R" is the mean hydraulic radius in feet, and "S" is the slope in feet (drop per foot of run). So, without going into all this mathematics, the most important part of the Manning formula is the little constant "n". As is evident, all other things being equal in this formula different velocities can be achieved with different values of "n". The rougher a pipe is the slower the flow will be; therefore, the "n" value increases with roughness. There are several other formulas for various applications, such as flow of water in open channels, and they all have this roughness factor figured in. This roughness factor is also called the coefficient of flow friction.

This little "n" has great importance in inspection and installation work, and one of the most important is its interpretation from an installed basis rather than from a physical characteristic of materials itself. Lots of pipe

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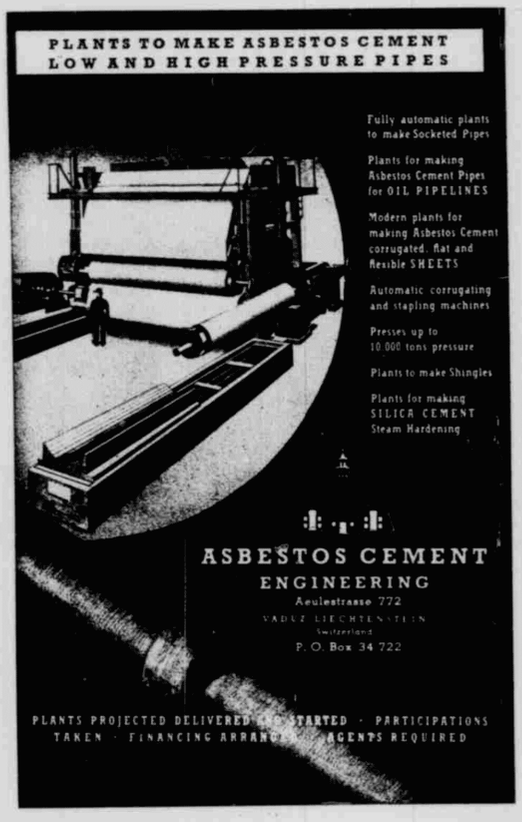
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materials are internally smooth, but the installed pipe may have gaps between the bell and spigots that present resistance to the flow of the stream and result in a little higher "n" *installed* than the "n" of the material itself. Just the basic manufacturing procedures and standards allowed by American Society for Testing and Materials take these deviations into consideration so as to allow end separation. Other piping materials have end rings to take up this space, thus allowing smoother flow, which in turn allows for a smaller installed "n". The length of a joint of pipe has a bearing on the installed "n". Obviously the fewer joints, due to longer lengths, will result in fewer places where eddy currents will be experienced thus allowing a smaller "n".

Another factor is the smoothness of the material itself. In the case of the vitrified material, the small nodules are a fractional detriment to flow. The granular material in other pipe materials cause flow to be deterred. Metallic pipes can rust. Thus a pitting is formed resulting in a roughness factor being introduced. So the material from which the pipe is made is a factor in determining the correct "n" to use. Most reputable manufacturers will discuss this and give tables to determine exactly what their material will do. They usually have had years of experience and possibly have had independent laboratories or engineering firms to make studies of their installed material to determine the "n" involved. Users should check with them and see what they will recommend.

Why must the sewer be graded at all? This reverts right back to the value of "n", but also has the slope factor involved. The slope causes gravity to pull the sewage through the pipe and the greater the slope the faster the flow. Also the less the slope the less "earth moving" necessary. Thus it is more economical not to have to grade a sewer line any greater than necessary. In the Manning formula there is a factor of slope. Also, the deeper the sewage runs in the sewer, the greater is the hydraulic radius (depth of sewage) as gravity pulls on a greater weight. All these factors contribute to the flow and grade.

Engineers have worked this out and made available tables for use in determining the velocity of sewage in a pipe of a given size. Most tables are based on a pipe flow-



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ing with what is termed a "scouring" or a "cleansing" velocity. These tables are also available through reputable manufacturers, and their use is highly recommended. Most have a conversion factor for different values of "n" and it should be pointed out that a very small change in the value of "n" will result in large changes in slope and velocities.

All the above has been gravity flow criteria. Flow under pressure can be directed with exactly the same reasoning. Roughness of the pipe material is still a very strong factor. However, slope can be dispensed with to a degree because pressure overcomes most of the gravity pull, and substitutes a factor of "head". This "head" is of three kinds, pumping head, static head, and friction head. The pumping head is the capacity of the pump to produce pressure and is usually expressed in pounds per square inch (irrigation pumps sometimes are classified in foot/head). The two factors that dissipate pumping head are static head and friction head. This latter is of concern in discussing pipe materials.

The formula to figure this flow in pipes under pressure is the Hazen-Williams formula. It is rather complicated mathematically and is written again as a velocity formula, $V = C\,R^{0.63}\,S^{0.54}\,0.001^{-0.01}$, where R and S are hydraulic radius and slope respectively. Here again there is a constant "C". This acts exactly as "n" did in the Manning formula as it, too, is the roughness factor of the pipe material. Again, there is a chart that tells how much pumping head is lost due to the roughness of the pipe. Most such charts are figured with a "C" factor of 140 (extremely smooth pipe) with conversion factors for other "C's" due to type of pipe, and corrosion, tuberculation, or any other condition that might increase its roughness. Tables are also available to convert friction loss due to fittings (90° or 45° turns) into feet of pipe to be added to the total. This is another easy way to get the total head loss rather than have to figure each fitting loss.

Thus, even though the calculation of velocities, slopes, and pipe friction are rather complicated in themselves, the knowledge of how to use available charts simplifies this greatly and allows easy determination of what the correct

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slope should be for various materials due to the different Mannings.

Two other factors should be brought out without reference to mathematical calculation of their value that obviously are factors in the flow of pipe. One is the length of the joints—the longer the joint, the more uninterrupted is the flow, thus lower the Manning "n". The other is the build-up of slime in the pipe. The long joint length is an asset, as explained. Slime build-ups not only decrease the inside diameter of the pipe available to flow, thus slowing it and increasing the Manning, but also act as detaining agent for materials attractive to adhesion to the slime. This is where "cleansing" or "scouring" velocities are so important. If slopes can be chosen from the charts to give a two feet per second velocity from the installed Manning of the pipe and the diameter involved, then slime should not be a factor. Most authorities agree that this two feet per second is adequate to inhibit sliming.

Learn to use available charts—they are simple—don't be afraid of them—get the company's representative to go over all problems with you until you understand their use. They are fine aids to your job of contractor or inspector.

NBRI INFORMATION SHEET—The National Building Research Institute of the South African Council for Scientific and Industrial Research has issued Technical Note No. X/BOU 103 on "Painting Asbestos-Cement Sheeting." It includes some characteristics of asbestos-cement, the painting of weathered, or carbonated, asbestos-cement, the painting of unweathered or fresh asbestos-cement, and redecorating of previously painted asbestos-cement.

CTI BULLETIN STD127—The Cooling Tower Institute, Houston, Texas, has available Code Tower Standard Specifications of "Asbestos Cement Materials For Application On Industrial Water Cooling Tower." This bulletin was approved by the CTI Executive Board in February 1966.

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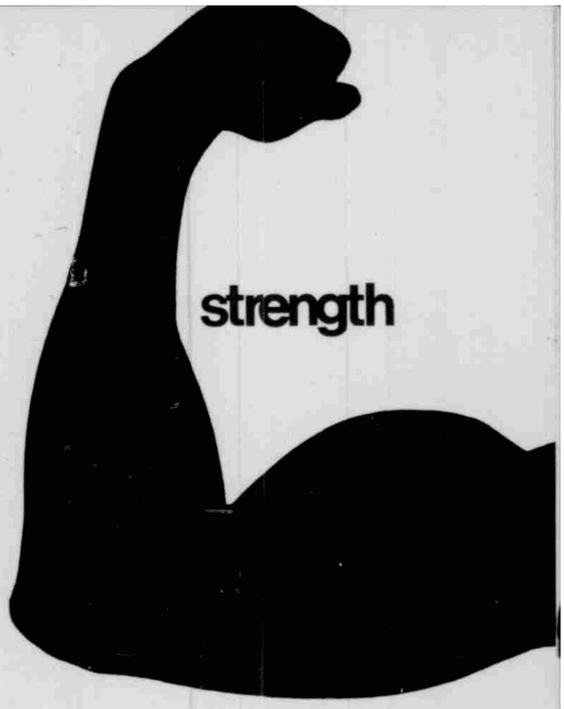
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THE CAPE ASBESTOS CO. LTD. has announced the incorporation of a new subsidiary company in Belgium —*Don International S.A.* A factory is to be built in Belgium for Don International, who will market DON and CAPASCO brake and clutch lining materials throughout the Common Market countries. DON and CAPASCO brake and clutch linings are manufactured in England by Small and Parkes Limited, a member of the Cape Asbestos Group of companies.

CAPE BUILDING PRODUCTS LIMITED, manufacturers of Asbestolux, have produced a series of folders interpreting some of the fire requirements in Building Regulations throughout Great Britain as they will affect building contractors. So far, three have been produced, covering partitions, garage linings, and the conversion of doors to fire doors. By using Asbestolux, all partition and garage lining requirements and most fire door requirements can be met. The necessary constructions are described in full, together with working diagrams and fixing recommendations.

GLASAL, a new addition to the products range of Cape Building Products Limited, is an autoclaved asbestos sheet material with a mineral glaze color surface. It has been specified throughout the world for ten years and has proved to be an extraordinarily durable material. The range of twenty semi-matt colors are unaffected by climate and are virtually free from maintenance. Not only is it an ideal color material for external cladding but its qualities make it perfect for internal linings and decorative surfaces. Glasal is non combustible and meets Class "O" fire requirements.

CBPL PRINT MATERIAL—"Cape Building Products Limited Technical Information 1966" is one of the few items of building industry print material to be chosen for the Annual Exhibition of the Design and Art Directors' Association. Only 250 items were accepted from the 5,000 entries received representing all forms of promotional design.



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John A. Bettes, Jr.—Retired

John A. Bettes, Jr., with Raybestos-Manhattan, Inc., Manheim, Pennsylvania, since July 10, 1939, retired July 1st, 1966, after a long and distinguished career as sales manager, and later manager, of R/M's Asbestos Textile Division. In 1926, he joined his father's firm, Bettes & Ebsen, hardware jobbers in New York City, who had the exclusive distributorship for Raybestos brake lining for many years. In 1929, he entered the asbestos textile industry as a salesman with Southern Asbestos Company, and joined the Industrial Sales Division of R/M in 1939. Mr. Bettes was placed in charge of asbestos textile sales, which at that time comprised a limited line of materials, principally asbestos cloths and in 1940 had helped issue the first catalog of asbestos textiles. In 1952, the Industrial Sales Division was split into two separate divisions and he was made sales manager of the Asbestos Textile Division. After R/M's purchase of Revolite in 1955, Mr. Bettes was made manager of the Asbestos Textile Division, including Revolite.

For years, Mr. Bettes has been regarded as a most knowledgeable individual in the asbestos textile industry. Under his guidance, the R/M line has been developed into the most comprehensive in the industry with continually increasing sales.

ASBESTOS TEXTILE INSTITUTE, at its June meeting, presented a handsome Scroll to *John A. Bettes, Jr.*, a past president of ATI, in appreciation of his more than 20 years of very active participation in affairs of the Institute. Mr. Bettes is Manager of the Asbestos Textile Division of Raybestos-Manhattan, Inc. in Manheim, Pa.

ATI will hold its Annual Meeting on October 6th and 7th, 1966, at The Homestead, Hot Springs, Virginia. Reservations must be made at least 30 days in advance of the meeting.

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Mineral Fiber Products Bureau

At its meeting on March 16th, 1966, the Mineral Fiber Products Bureau elected the following officers: President —A. H. Fay, National Gypsum Company; Vice President —J. G. Hall, The Ruberoid Co.; and, Treasurer—E. C. Cerny, Johns-Manville Sales Corporation.

During the past year the Bureau has cooperated with the U. S. Savings & Loan League in the publication of three sections of their Construction Lending Guide: Section 219—Asbestos Cement Products; Section 411—Shingle Roofing; and, Section 421—Shingle Siding.

The Bureau published Methods of Testing and Specifications, and Design Manual, for Asbestos-Cement Canal Bulkheads. A revised edition of the Canal Bulkhead Design Manual and complete revised editions of the siding and flat sheet application manuals will be available this summer. A 5-year salt water freeze-thaw field exposure test and field strength test for canal bulkheads will be completed this summer. Additional laboratory and long-range field exposure test for extreme climates are under way for canal bulkhead products. A proposed canal bulkhead test specification is being presented to ASTM in June.

The Bureau is taking an active part in the Department of Commerce, the Advisory Commission on Intergovernmental Relations and the National Association of Home Builders efforts in the area of uniform codes and standards.

The objectives of a special corrugated committee, appointed last year, are to reduce erected cost and broaden the market for standard corrugated systems, design simpler and more efficient insulated corrugated systems, and to develop and promote new architectural effects for corrugated systems. Their studies to date have amassed much data on system designs and costs and have resulted in laboratory and field test programs. It is anticipated that these programs, in addition to computerized system design data, will result in a proposed design manual. This also ties in with the farm structure design work of the American Society of Agricultural Engineers.

The Bureau is also investigating applicator training programs through federal and state agencies to meet the shortage of siding mechanics.

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Asbestos Contractors Boston Association

At the annual meeting of the Asbestos Contractors Boston Association on January 5th, 1966, the following officers and committees were elected to serve for the current year: President—William Hinman; Secretary-Treasurer—Albert L. Sargent; Health & Welfare & Pension Trustees—Albert L. Sargent, Chairman, William Wilkes, and Norman Johnsen; Negotiating Committee—William Slade, Chairman, William Hinman, Walter F. Peterson, and Theodore Brodie, Alternate; Joint Trade Board—Bronius Kudirka, Chairman, I. Wesley Watson, and William Darling; and, Apprenticeship Committee—Theodore Brodie, Chairman, Frank Jones, and William Wilkes.

The Insulation Manual & Specifications developed by the Standards Committee of the Boston Association and published as a Regional project of the Northeastern Insulation Contractors Association met with enthusiastic acceptance. Additional copies are available at $4.00 each.

A testimonial dinner was given on April 11th, 1966, at the Charter House Hotel, Cambridge, Massachusetts, in honor of John Roper's retirement from the Armstrong Contracting and Supply Corporation after 40 years of service in the industry.

NEW A-C PIPE FACILITY—Certain-teed Products Corporation officially opened its new asbestos-cement pipe manufacturing facility at Riverside, California, during two days of ceremonies, dedications, open house, and plant tours, on June 10th and 11th, 1966. The modern $8-million building has 120,000 square feet of space under roof and separate air conditioned offices house plant management, traffic, sales service and purchasing personnel. Included on the fully-landscaped grounds is an area of 250,000 square feet for storage of pipe. More than 100 employees are working in the plant and offices. The new asbestos-cement pipe plant was welcomed as a major advance in Riverside's progress and a valuable new asset to California. Plant tours were conducted for special guests and for the general public.

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Automobile Sales

APRIL 1966 motor vehicle factory sales from plants in the United States totaled 963,222 (passenger cars—810,961; trucks and buses—152,261). The total for April 1965 was 1,017,691. The total for the first four months of 1966 was 3,920,725 compared to 3,984,742 for the same 1965 period.

United States motor vehicle imports for April 1966 were as follows: new passenger cars—58,988 valued at $78,110,482; used passenger cars—474 valued at $579,655; trucks and buses—1,857 valued at $3,954,378; and automotive parts—valued at $44,885,937. (Automobile Manufacturers Association)

THERMAL INSULATION ASSOCIATION OF CANADA will hold its 4th annual meeting at Cleveland's House, Minett, Ontario, Canada (situated on Lake Rosseau in Muskoka District, September 14th through 18th, 1966. The 1966 convention theme is "Today's Insulation After Completion or What Price Our Future?" and arrangements for the meeting are under the direction of Donald Book, of Insul-Glass Sales Limited, Ottawa. The Thermal Insulation Association of Canada is an association of applicators, distributors and manufacturers although it is primarily an applicator association.

THE PRODUCERS' COUNCIL will hold its 45th annual meeting at the Waldorf-Astoria, New York City, September 27th through 30th, 1966. Our Changing Industry—Its Challenges . . . Its Problems . . . Its Opportunities has been selected as the theme. Program chairman M. P. Komar emphasized this will be a crucial year for the construction industry and one in which a "where do we stand" and "where do we go from here" evaluation should be made by building products manufacturers.

ASTM COMMITTEE C-16 on Thermal Insulating Materials, Jung Hotel, New Orleans, Louisiana, September 18th through 21st, 1966.



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Building

MAY 1966 total value of contracts for new construction, at $5,131,660,000, was 5% over last May. While the total for May 1966 set a new high for the actual dollar value reported in any month, May is normally the strongest contracting month of any year. After seasonal variation is taken into account, April's rate stands as the all-time peak.

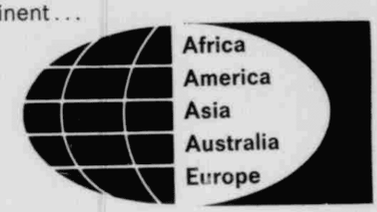
Residential building contracts were valued at $1,970,192,000 in May and reflected a 5% decline from the year-ago total. The entire month's decline was concentrated in single-family housing (down 8%), as contracts for apartments and nonhousekeeping residential building showed a small gain. The value of May's index of housing contracts, after seasonal adjustment, slipped another 6% from its already none-too-strong April rate, and this weakening has to be put down as a response to the extremely tight mortgage conditions of the past few months. The resulting May level of new home building valuation was the lowest in over a year.

Nonresidential building contracts amounted to $1,826,267,000, ahead by 3% on a May to May basis. Commercial building declined as office building fell off sharply and stores and warehouses made only a slight advance. Manufacturing buildings scored a gain of 12%. Hospital building increased 71% due to the nearly $60-million contract for the renovation of Bellevue Hospital in New York City. Educational building increased moderately and public buildings scored a large percentage gain over last May's weak showing.

Nonbuilding projects, at $1,335,201,000, were ahead of the year ago total by 31%. This value was swelled by the inclusion of a single job valued at more than $100-million—a 630 foot high dam known as Bullards Bar to be built across the Yuba River in Northern California. Streets, highways, and bridges showed a well-above-average 23% gain.

FIRST FIVE MONTHS 1966: Nonresidential building $7,965,213,000 up 16%; Residential building $8,767,588,000 up 1%; Nonbuilding construction $5,170,689,000 up 13%—total construction $21,903,490,000 up 9% over the first five months of 1965. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

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RESEARCH-COTTRELL/ALBANY FELT — Research-Cottrell, Inc., Bound Brook, New Jersey, has acquired the baghouse dust collector business of Albany Felt Company including the baghouse equipment designs, patent rights for the Air-shake principle, contracts, and guarantee responsibility of the Dust Control Division. Albany Felt will continue and expand the manufacture and marketing of bags and bag fabrics used in baghouses, a field in which it is one of the nation's oldest and largest suppliers.

Armand Labbe, inventor of the Air-shake principle and a consultant to Albany Felt, will also become a consultant to Research-Cottrell. Key personnel of the Dust Control Division will join Research-Cottrell in a bag filter department at Bound Brook, paralleling the company's precipitator, scrubber, and mechanical collector departments.

At Albany Felt, new customer service laboratory facilities plus new specially-designed fume research equipment will permit their dry filtration technology to continue to grow. In addition, Albany has recently announced a new plant devoted to the manufacture of dust bags at Tempe, Arizona. This new facility will augment the company's expanding facilities at North Monmouth, Maine.

CAREY INDUSTRIAL INSULATIONS—An 8-page brochure, Form No. 6551 lists all types of The Philip Carey Manufacturing Company Industrial Insulations and Insulating Cements for use in power, chemical, petroleum, petrochemical, commercial and manufacturing industries. It includes an Insulation Selection Guide and a Cement Selection Guide and throughout the brochure, product photographs and descriptions supply information on the Philip Carey line of industrial insulations for temperatures from 35°F. up to 2,000°F.

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San Francisco, Calif.	E. S. Browning Company
Seattle, Wash.	Durkin Chemicals, Inc.
Trenton, N.J.	H. M. Royal, Inc.
Winchester, Mass.	W. D. Egleston Company, Inc.

BAUER HURRICANE BULLETIN—The completely up-dated four-page Bulletin G-4-D on the Hurricane Pulverizer-Classifier has just been released by The Bauer Bros. Co. The Hurricane is a heavy duty, "3-in-1" air type attrition mill with integral classifier and patented impurity extraction feature which is optional at no extra cost. It is designed for fine grinding from 200 mesh down to the low micron range, and can be used for a wide variety of dry, friable materials. The new bulletin contains data on sizes, construction, operation and application. Illustrations include a cross section diagram, typical "total function" system installation diagram and photo, and other pertinent data.

BAUER BULLETIN 66—Bauer equipment and total systems for pulp, paper and board mills and the chemical, food and minerals processing industries are described in a new two-color eight-page condensed catalog now available from The Bauer Bros. Co. and Bauer International. It includes unit and installation photographs, engineering cross-section drawings, application data and summarized mechanical specifications. It covers equipment for fiberizing, size reduction, pulverization, fluid expression, digestion, impregnation, wet and dry cleaning, classification and separation, plus special food processing equipment.

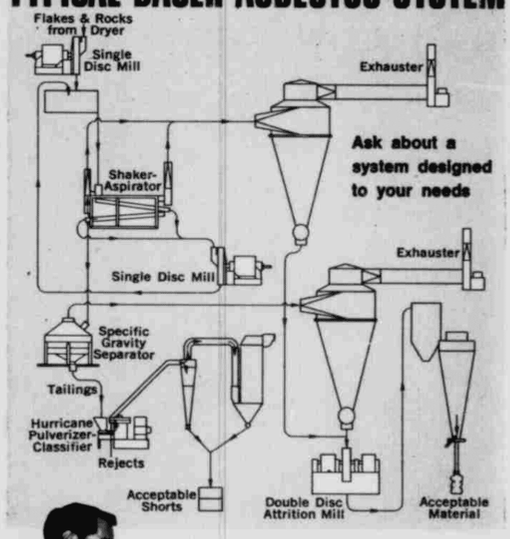
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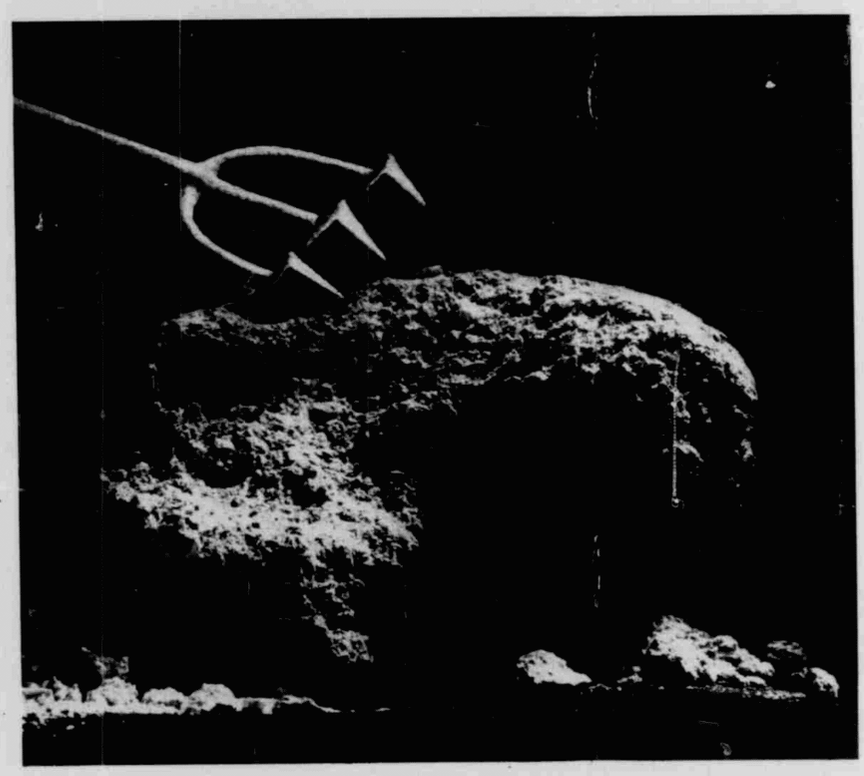
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For asbestos fiber literature, write Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville, Asbestos Fiber Sales, Research and Engineering Center, Manville, N.J.

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MARKET CONDITIONS

General Business.

General business has recently shown some signs of slackening. Automobile sales are off from the corresponding period of 1965 and are below estimates for this year. This and other factors have resulted in a slowing down in steel production. The cost of living index last month showed only a very slight rise and indications are that tightening of credit is having the desired effects of putting a damper on inflationary trends and preventing a runaway boom in business. In view of the problems of labor and material shortages which were growing serious in some industries, many business leaders and economists are pleased to see this slight slowdown which may give the economy a breathing spell and a chance to consolidate the rapid gains made over the past six months. Very few serious students of the economy feel that current conditions presage a recession of any great magnitude. While the buildup of forces and supplies in Vietnam continues, there are some indications that the Vietcong position may be weakening, but it is difficult to assess the overall situation and, certainly, over optimism is not warranted so long as the political unrest within Vietnam continues.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during May 1966 totalled 87,106 tons, a reduction of 16,419 tons or approximately 16% from the same period last year. Reduced shipments are attributed to lower than expected sales to the overseas market as the result of the longshoremen's strike which tied up shipping in the St. Lawrence ports for the past five weeks. Year to date shipments at 470,879 tons exceed those of 1965 by 71,924 tons or approximately 18%.

Asbestos—Manufactured Goods.

Asbestos Textiles. The sale of asbestos textiles through June 1966 has exceeded earlier market forecasts, and indi-

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cations are that the demand will remain at a high level for the balance of the year. The asbestos mills are maintaining a good order position, but deliveries have had to be extended in many instances due to the increased demand. It is expected that this condition will exist well into the third quarter, particularly if the sales volume maintains the present level.

Asbestos Brake Lining. The market for brake lining and clutch facings continues strong and it appears as though 1966 will be a good year for friction materials.

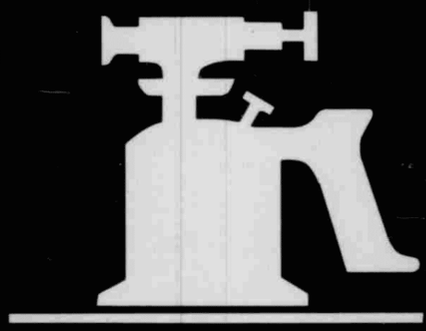
Asbestos Paper & Millboard. This market continues at a fairly even pace and competition for sizeable requirements is keen. A continuation of this situation is expected.

High Pressure Insulation. This market is quite stable, bidding is very active, and new prices are in effect. There is a backlog at the plants and the outlook for the year is good.

Asbestos-Cement Siding. Tight mortgage money situation has lessened activity in new home construction and this lessening of activity has restrained the sale of asbestos siding. The price range of housing which has been most affected has been the lower and middle income brackets. These houses represent the type of house on which asbestos siding is used more frequently. There is no apparent reason for a reversing of this trend unless steps are taken to make mortgage money more available.

Asbestos-Cement Pipes. The market currently seems to be holding up but the slowing of Federal funds into pollution projects is restraining customer demand. Activity for the balance of this year is clouded by the growing concern over the decline in housing, the tightening of fiscal policies affecting available credit and the uncertainty of the Government with respect to possible tax increases.

Asbestos Filter Fiber. The Arizona filter fiber market is firm and Arizona industry is filling both foreign and domestic orders. For the balance of the year, the industry looks for increased activity on the foreign market due to



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unsettled world conditions. An increase in demand is expected during the coming months.

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

QUEBEC OUTLOOK—Another record year may be ahead for Quebec's asbestos mining industry, due, in part, to the steady increase in demand from countries throughout the world for asbestos-cement grades of fibre. Another factor is the booming U. S. economy. Quebec's biggest customer for asbestos, the United States needs it principally for the construction and automotive industries. Expansion programs involving millions of dollars are underway or just completed and today asbestos mines in the Thetford region employ more men then they did in March 1964 when the integration of two mining companies resulted in loss of work for some 600 men. Industry sales experts and government economists agree that, barring unforeseen conditions, there is no let-up visible at least through 1967.

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PRODUCTION

Canada—MARCH 1966 asbestos production amounted to 116,404 tons compared to 84,303 in March 1965. Total for the first three months of 1966 is 302,588 compared to 215,258 for the same period in 1965. (Dominion Bureau of Statistics, Ottawa)

Republic of South Africa—FOURTH QUARTER 1965 production totalled 62,345 short tons (Amosite—19,900, Chrysotile—9,180, Cape Blue—31,019, Transvaal Blue—2,246, Tremolite—none). Production for the YEAR 1965 amounted to 240,752 short tons (Amosite—80,735, Chrysotile—38,895, Cape Blue—112,329, Transvaal Blue—8,793, Tremolite—none). (Department of Mines, Johannesburg)

World Mining Map—Annales des Mines, Paris, France, publishers of a mining magazine, have available a tectonic survey entitled "Carte Miniere Du Globe Sur Fond Tectonique" and a mining map of the world. Many minerals are listed and localized including 18 asbestos deposits containing 160-million metric tons. Two sets of tables giving sections and minerals enable any given deposit to be located. The area of the symbol for each mineral shown on the map is proportional to the tonnage contained.

Bolivia—Crocidolite deposits occur 50 km. north of Cochabama, Bolivia. The length of crocidolite fibres vary from microscopical sized to 1 m. They are very strong; their tensile strength ranges from 70 to 225 kg/mm^2. Their resistance to attack by acids is very high. Density is 3.00; compared with South African crocidolite, the Bolivian variety contains more Mg and less FeO. (Mineralogical Investigation of Asbestos of Bolivia, P. Ljunggren et al, Bolivian Institute, Bolivian Petroleum, 1965)

Mexico—Serpentine dike characterized by asbestos mineralization occurs at El Novilo in Sierra Madre. The asbestos-bearing zone, about 10 km. in length and 1 km. in width, lies 18 km. from Victoria Township, Tamaulipas State. It contains chrysotile asbestos of high quality. Small deposits of actinolite asbestos occur at two other locations—in Sierra Madre and at Camacho. They contain inclusions of chrysotile and amphibole asbestos. Tremolite-actinolite and chrysotile asbestos have been formed in the Gerrero State, but have not been fully investigated as yet. (Asbestos Deposits in Mexico, Ingeniere Quim 1965)

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures from U.S. Dept. of Commerce) — Short Tons

Unmanufactured Asbestos:	MARCH 1966	APRIL 1966
Amosite, Crude, South Africa	2,242	2,295
Other Countries	..	53
Crocidolite (Blue), Crude, South Africa	1,436	1,074
Other Countries	300	..
Chrysotile, Crude, Canada	..	105
South Africa	1,416	2,260
Yugoslavia	805	..
Zambia	..	15
Rhodesia, United Kingdom & Mozambique	487	..
Chrysotile Spinning Fiber, Canada	1,613	1,364
South Africa	405	..
Mozambique	25	..
Chrysotile, Other, Canada	72,891	54,984
South Africa	830	..
Asbestos, Other, Canada	2,637	2,436
Finland	187	45
United Kingdom	189	36
South Africa	315	..
Italy, Mozambique & Rhodesia	125	..
March 1966 valued at—$8,678,474	85,903	64,667
April 1966 valued at—$6,241,859		

Manufactured Asbestos Goods:		March 1966	
A-C Pipes, Tubes & Fittings	Lb	6,061,071	$270,419
Asbestos-Cement Articles, Other	Lb	1,284,431	151,310
Asbestos Yarn, etc.	Lb	71,486	41,485
		7,416,988	$463,234
		April 1966	
A-C Pipes, Tubes & Fittings	Lb	2,514,457	$125,875
Asbestos-Cement Articles, Other	Lb	1,722,875	162,342
Asbestos Yarn, etc.	Lb	100,457	122,079
		4,337,789	$410,296

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Exports From U.S.A.

(Figures from U.S. Department of Commerce)

FEBRUARY 1966

		Short Tons	Value
Unmanufactured Asbestos:			
Crudes & Spinning Fibers		153	$ 41,723
Non-Spinning Fiber		2,448	341,724
Waste & Refuse		1,043	86,924
		3,644	$ 470,371
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	972,757	$ 87,598
Other A-C Articles	Lb	719,194	115,729
Gaskets & Packing	Lb	410,077	389,584
Textiles & Yarns	Lb	214,528	107,715
Mfrs other than friction materials		..	422,635
Clutch Facings	No	114,520	145,988
Brake Linings	Lb	581,984	445,363
			$1,714,612

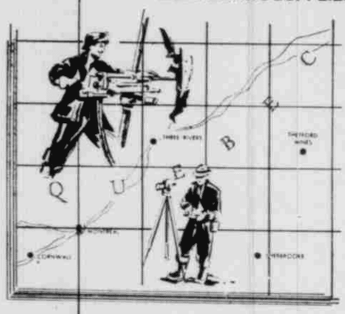
MARCH 1966

Unmanufactured Asbestos:			
Crudes & Spinning Fibers		144	$ 30,307
Non-Spinning Fiber		2,289	346,828
Waste & Refuse		1,058	80,394
		3,491	$ 457,529
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,087,894	$ 179,580
Other A-C Articles	Lb	728,759	78,796
Gaskets & Packing	Lb	583,619	526,832
Textiles & Yarns	Lb	98,401	122,550
Mfrs other than friction materials		..	408,364
Clutch Facings	No	201,250	214,476
Brake Linings	Lb	689,306	498,671
			$2,029,269

South Africa Exports—4TH QUARTER 1965: 63,812 short tons of asbestos were exported, valued at R7,163,827 (Amosite—25,979 valued at R2,583,183, Chrysotile—6,414 valued at R452,820, Cape Blue—29,384 valued at R3,875,329, Transvaal Blue—2,035 valued at R252,495, Tremolite—none); YEAR 1965: 209,575 short tons of asbestos were exported, valued at R23,419,439 (Amosite—75,981 valued at R7,540,503, Chrysotile—25,299 valued at R1,836,633, Cape Blue—98,217 valued at R12,837,564, Transvaal Blue—10,078 valued at R1,204,739, Tremolite—none). (Department of Mines, Johannesburg)

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Exports From Canada

(Published by Dominion Bureau of Statistics) JANUARY 1966

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	12	1,560	21,305	36,293
United Kingdom	..	170	6,875	4,524
South America	..	48	4,567	1,816
Cen. Amer. & Mexico	..	..	1,027	56
Europe	7	1,795	22,747	14,681
Japan	..	7	780	3,027
Other Countries	..	58	3,127	800
	19	3,638	60,428	61,197

Total Unmanufactured Asbestos—125,282 Valued at—$15,692,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 59,000
Asbestos-Cement Building Materials	150,000
Asbestos Basic Products, Other	47,000
	$ 256,000

(Published by Dominion Bureau of Statistics) FEBRUARY 1966

Unmanufactured Asbestos:

Short Tons

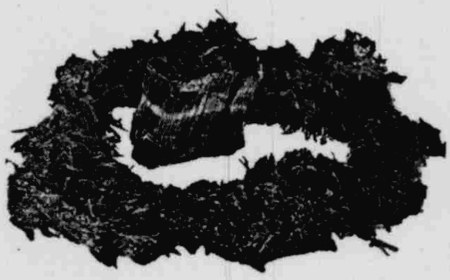
	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	2	931	20,484	38,773
United Kingdom	..	70	1,478	1,262
South America	..	..	484	362
Cen. Amer. & Mexico	..	50	746	209
Europe	..	1,091	12,090	3,130
Japan	..	46	785	259
Other Countries	..	..	3,723	1,160
	2	2,188	39,790	45,155

Total Unmanufactured Asbestos—87,135 Valued at—$10,402,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 122,000
Asbestos-Cement Building Materials	40,000
Asbestos Basic Products, Other	17,000
	$ 179,000

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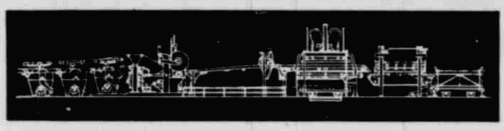
INDUSTRY NEWS

HAPPY BIRTHDAY

Ian C. Spark, Vice President & General Manager, Cape Asbestos (Canada) Limited, Toronto, Canada, July 16.
John F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.
C. Brown Whitley, President, Scandura, Inc., Charlotte, North Carolina, July 20.
C. J. Backstrand, Chairman, Armstrong Cork Company, Lancaster, Pennsylvania, July 21.
Robert S. King, Chairman, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 21.
Albert G. Kovacs, Industrial Relations Representative, The Ruberoid Co., New York City, July 21.
Seymour Milstein, Senior Vice President-Corporate Development, The Ruberoid Co., New York City, July 21.
William S. Simpson, Vice President & Secretary, Raybestos-Manhattan, Inc., Stratford, Connecticut, July 21.
Roscoe E. Tallman, Director, Tallman McCluskey Fabric Company, Kirkwood, Missouri, July 22.
Richard D. Deininger, Vice President-Manufacturing, Nicolet Industries, Inc., Florham Park, New Jersey, July 24.
Mrs. Nina Schwezoff, Vice Managing Director, Puttens Asbestos Organization, Johannesburg, South Africa, July 25.
George C. Anderson, Vice President-Sales, Roofing Granule Division, The Ruberoid Co., New York City, July 29.
Clinton B. Burnett, President, Johns-Manville Corporation, New York City, July 29.
Thomas A. Dent, Vice President-Management Services, The Ruberoid Co., New York City, July 30.
C. B. Brown, Director, Bell Asbestos Mines Limited, Thetford Mines, Canada, August 1.
Desmond Kirkness, Consultant, The Universal Asbestos Manufacturing Company Ltd, Tolpits, Watford, England, August 1.
G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.
A. P. Keasbey, Sr., President & General Manager, Robert A. Keasbey Company, New York City, August 6.
R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.
Arthur C. Smith, Vice President of Research, Development & Engineering, Johns-Manville Corp., New York City, August 8.
J. M. Dunn, Executive Vice President, Standco Industries, Inc., Houston, Texas, August 9.
Melvin H. Baker, Honorary Chairman, National Gypsum Company, Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

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Hedman Mines consists of 29 contiguous claims in Warden and Munro Townships, Ontario, Canada. The orebody is estimated to contain 10,000,000 tons of ore to a depth of 300 feet sufficient to produce 6,000,000 tons of asbestos. Capital requirements to produce 120 tons daily is estimated at $1,000,000. Hedman is presently operating a pilot mill in Matheson to test equipment, establish a flow sheet and provide asbestos shorts for market appraisal and development. Ore from various parts of the pit area being prepared for mining was milled last year in addition to the diamond drill core, to determine that over $25.00 per ton of asbestos can be recovered. All asbestos produced is in the Group 7 category of $44.00 to $47.00 per ton at the mill.

McAdam Mining — Near Roberge Lake, some twelve miles northeast of the Chibougamau townsite, McAdam Mining Corporation is reported to have outlined during the last five years more than 165-million tons of a material minable by open pit methods and carrying, on the average, 4.0% asbestos. Mill tests have indicated the feasibility of up-grading the above material by screening out, after primary crushing, one-third of it as a low grade oversize. The remaining 110-million tons, it is claimed, would grade 5.30% asbestos valued at $6.95 per ton. Present plans call for the bulk sampling of some of the larger zones. (The Northern Miner)

Terra Nova Explorations, a subsidiary of the Price Bros. organization, has a busy and widespread field program lined up for the season now starting. A goodly part of the effort will be in partnership with Hudson Bay Mining and Smelting and Southern Maryland, a Patino Mines associate, but some situations are being tackled single-handed. One of these is a brand new asbestos discovery in LaFontaine Township, Quebec, Canada. Work to date has demonstrated a new and competent peridotite structure, previously unknown, some two to three miles in length and over 1,000 feet in width. On the initial drill area, three holes were fanned from the same set up and all returned widths of 200 to 300 feet of low grade, short fibre material. (The Northern Miner)

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ASBESTOS STOCK QUOTATIONS

Close—June 30, 1966

Advocate Mines Ltd	$ 4.25*	Nat Gypsum (Com)	30⅞
Asarco	58⅞	Nat Gypsum (Pfd)	87½
Asbestos Corp	$21.75*	Pacific Asbestos	2⅜
Philip Carey	39	Raybestos-Manhattan	59¼
Cassiar Asbestos	$15.37*	Ruberoid	47¾
Certain-teed	16⅞	Seagrave	24⅜
Flintkote (Com)	17⅞	United Asbestos	$3.15*
Flintkote (Pfd)	37¾	U.S. Rubber (Com)	40½
Johns-Manville	50½	U.S. Rubber (Pfd)	153

*Canadian currency

B.B.A. Annual Report 1965—Group external sales for British Belting & Asbestos Limited, at £17,686,948, were 18% above the 1964 figure of £14,998,914. Group profit after tax amounted to £1,548,272 against £1,077,466 in 1964. 1965 capital expenditure for the Group amounted to £1,337,743, of which £749,686 was attributable to the parent company and £588,057 to subsidiaries. Further expansion and reorganization are envisaged. Machinery has been installed in the new asbestos yarn manufacturing unit at West Auckland and production started in the second quarter of 1966. Cresswell's Asbestos Company Limited became a wholly-owned subsidiary of B.B.A. in October 1965. The installation of the plant was completed and production started in Alta Friccion S.A., Mexico, for the manufacture of asbestos yarn and woven brake lining.

Lansdowne Explorations—The latest progress report dealing with the development program on Lansdowne's asbestos property in Soissons Township, Quebec, Canada, indicates about 8% chrysotile cross-fibre asbestos from ½ mm. to 4 mm. fibre length. A second section estimated at 2% fibre from 286 to 307.5 feet occurs. Samples from the present hole will be sent for testing.

GUMMI ASBEST KUNSTSTOFFE

is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

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

(As of July 10, 1964)

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

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

(As of January 1, 1965) Canadian Currency

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

CASSIAR— Per Ton of 2.000 lbs., f.o.b. North Vancouver, B.C.

As of January 1, 1966) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	273.00
AK grade (shingle fibre—Canadian Group 4)	231.00
AS grade (shingle fibre—Canadian Group 4)	190.00
AX grade (shingle fibre—Canadian Group 5)	168.00
AY grade (shingle fibre—Canadian Group 5)	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
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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 May 10th through June 7th, 1966.

3,250,633—Molded Mineral Fiber Acoustical Tile, R. F. Cotts (assigned to The Celotex Corporation, Chicago, Illinois), May 10, 1966. Method for manufacturing fire-resistant molded acoustical tiles consisting mainly of mineral fibers of two or more types. A preferred batch comprises a major proportion of granulated mineral wool, a lesser proportion of either Grade A-10 amosite or Grade 7-D chrysotile asbestos fiber, a starch binder, and usually a small amount of kaolin, ball clay, or other non-swelling clay to improve the bond. The final tile has excellent dimensional stability and strength, and is highly resistant to conditions of extreme heat.

3,253,664—Sealing Porous Formations, C. A. Sauber and F. J. Shell (assigned to Phillips Petroleum Company, a corporation of Delaware), May 31, 1966. In the sealing of porous formations and thereby recovering lost circulation in oil well drill holes, the sealing slurry consists of an aqueous suspension of chrysotile asbestos fibers, diatomite, and lime. The slurry of this invention is squeezed into the porous formation in the well bore, where it effectively stops loss of drilling fluid.

Regional Mineral Industry Review of North America, by Lester G. Morrell (preprint from U.S. Bureau of Mines Minerals Yearbook 1964, (5¢)—Noteworthy output increases were recorded for asbestos in both Canada and the United States, more than half of the output of the non-Communist world. 1,376,869 metric tons of asbestos were produced during 1964 compared with 1,218,347 in 1963. Consumption in 1964 amounted to 813,000 metric tons against 721,000 in 1963.

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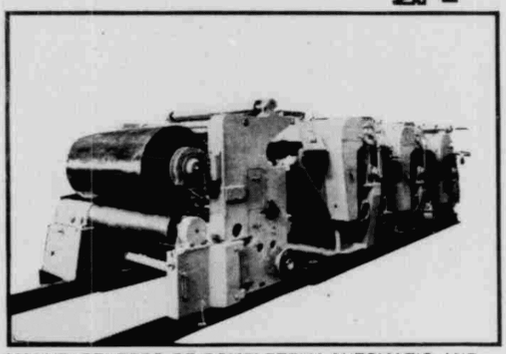
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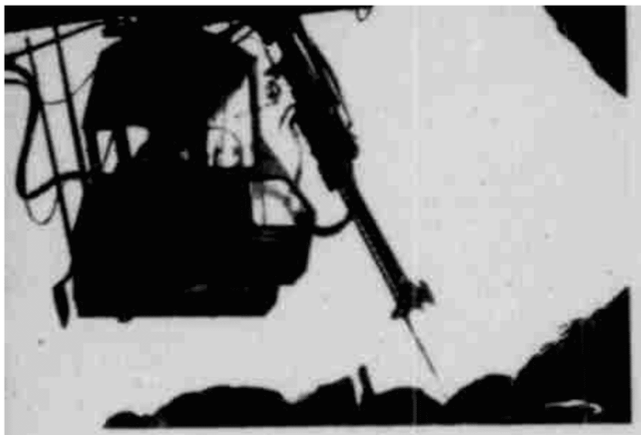
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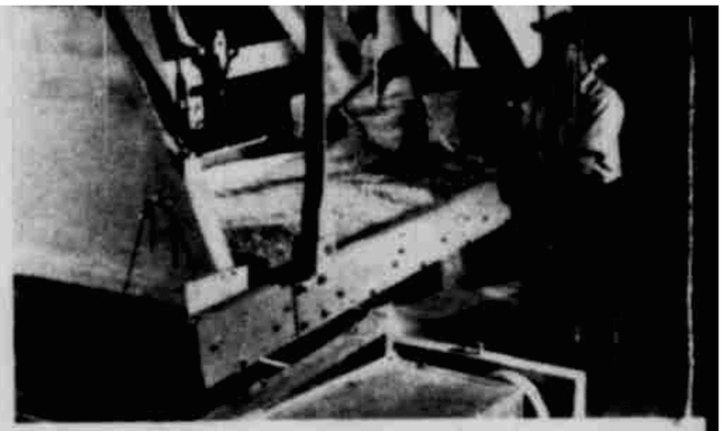
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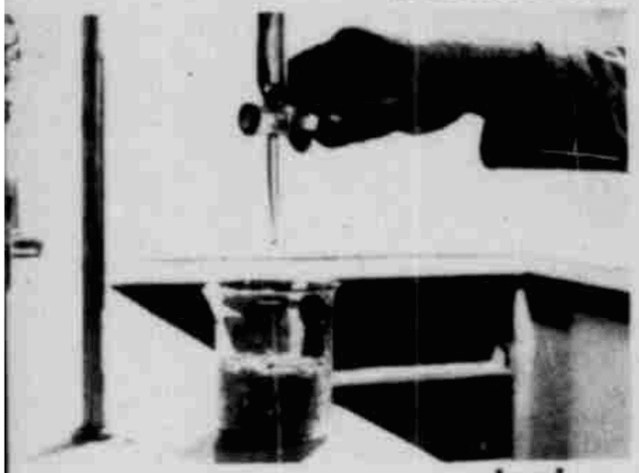
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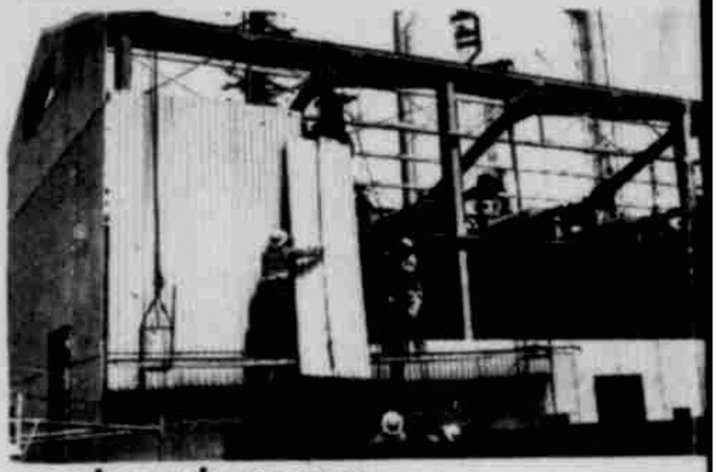
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