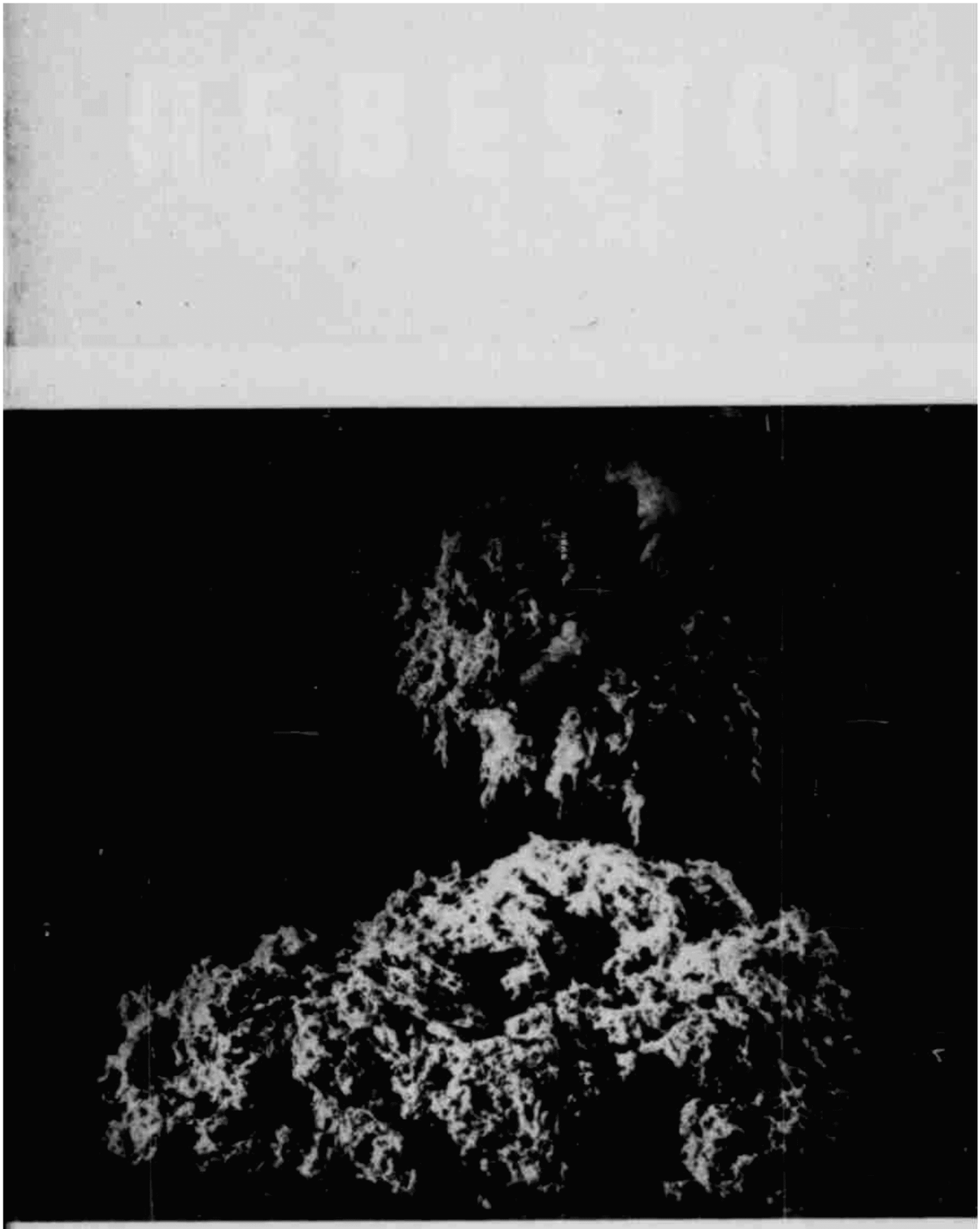


Canadian Milled Chrysotile Asbestos Fibre from the Thetford Mines District, Quebec

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ASSOCIATIONS

Asbestos Textile Institute

The Asbestos Textile Institute during 1963 continued to serve the members of the industry through its many committee activities and projects designed to develop and extend the applications and performance capabilities of asbestos textile products, and to disseminate information leading to their wider use in industry.

The general meetings of the Institute, which were held in January, June and October, provided an opportunity for representatives of this important industry to engage in discussions concerned with the improvement in products, the writing of specifications governing same, and the solution of problems common to all members.

Following the resignation of Dr. M. C. Shaw, Executive Director and Assistant Treasurer for the last 17 years, effective August 1st, 1963, the office of the Institute was moved from its former location at the Philadelphia College of Textiles and Science. The new address is at P. O. Box 239, 75 Center Street, Pompton Lakes, New Jersey 07442.

Mr. H. E. Sunbury, well known throughout the asbestos textile industry, was appointed Executive Secretary and Assistant Treasurer to succeed Dr. Shaw, as reported in the August 1963 issue of "ASBESTOS".

The Asbestos Textile Institute, founded in 1944, begins its twentieth year of continuous service to the industry in 1964, and will be directed by a Board of Governors consisting of the following officers and members: President—S. J. Peele, Jr., United States Rubber Company; Vice President—J. W. Weber, American Asbestos Textile Corporation; Treasurer—J. A. Brown, Jr., Raybestos-Manhattan, Inc.; J. A. Bettes, Jr., Raybestos-Manhattan, Inc.; J. T. Griffis, H. K. Porter Company, Inc.; W. S. Hough, Johns-Manville Corporation; and, T. C. McCluskey, Tallman-McCluskey Fabrics Company. The Executive Secretary and Assistant Treasurer is H. E. Sunbury.

In addition to the membership represented on the Board of Governors, the following companies actively sup-

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In the year 1964, as in the past, much of the most valuable work of the Institute is carried out by the four active committees, each of which is concerned with a different segment of the industry.

The Air Hygiene and Manufacturing Committee under the Chairmanship of L. C. Williams, Raybestos-Manhattan, Inc., studies possible improvements in manufacturing methods and conditions throughout the industry as they reflect upon hygienic and safety conditions.

The Technical Committee, under the Chairmanship of W. Maaskant, American Asbestos Textile Corporation, will be concerned with the providing of technical information to the members, Federal Agencies, ASTM, and others who may be interested in preparing specifications for products of our industry.

The Fiber Testing Committee, under the Chairmanship of Irvin Barnett, Johns-Manville Corporation, will continue to review and prepare for publication those test methods and techniques that may be adapted to the evaluation of asbestos fiber characteristics and properties. It is anticipated that the "Manual of Testing Procedures for Chrysotile Asbestos Fibre" a 170-page book first published in 1962, will be ready for a second printing, with revisions and additions, in the latter part of the year.

The Sales Promotion Committee, under the Chairmanship of J. W. Christenbury, American Asbestos Textile Corporation, will continue to pursue endeavors designed to promote the wider use of asbestos textiles. The Handbook of Asbestos Textiles (2nd Edition) has been in good demand, and is most informative. This is believed to be the most authoritative source of information on asbestos textiles yet to be published.

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in these committee activities, serves to provide the industry with an ever increasing fund of knowledge regarding asbestos textile products and their capabilities. In this, its twentieth year, the work of accumulating knowledge of, and the spreading of information about asbestos textiles, will be pursued by the Institute with increased vigor.

Insulation Distributor-Contractors National Association, Inc.

1963 was the best year in the history of IDCNA, from all points of view: membership growth; finances; and, achievement. IDCNA held its best attended Annual Meeting in September. This meeting was conducted at the Arlington Hotel, Hot Springs, Arkansas, under the gavel of President Charles T. Vaughn, assisted by his committee chairman. Each of the National Committees presented a nationally-known speaker.

During 1963, IDCNA was represented on the National Joint Board in Washington, D.C. by the Association Executive Secretary, Ellwood F. Jones. His office is located at 1425 Chestnut Street, Philadelphia, Pennsylvania 19102 (telephone number: LOcust 3-9088).

The 1963 officers of IDCNA are: President—Charles T. Vaughn, Omaha, Nebraska; Vice President—Dillard Breeding, Nashville, Tennessee; Vice President — Granville Browns, Houston, Texas; Secretary—Conrad L. Wiegers, Charleston, West Virginia; and, Treasurer—Leon E. Butler, Philadelphia, Pennsylvania. These present officers continue in office until the Annual Meeting, which will be held at the Fairmont Hotel, San Francisco, California, October 26th to 29th, 1964.

Newly elected directors in 1963 continuing through 1964 are: Duane C. Luse, Chicago, Illinois; Frank Rutherford, St. Louis, Missouri; and William B. Wilkes, Boston, Massachusetts.

Growth in 1964 will be continued by affiliation of insulation contractors from the Middle Atlantic, the Southeast, and the Central States regional associations.

Southwest Insulation Contractors Association

The membership of SWICA is gratified with the enthusiasm and the attendance at the two 1963 meetings. The

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Spring meeting was held May 9th through 11th, 1963, in Mobile, Alabama, at beautiful Point Clear on Mobile Bay. This meeting was very well attended with an ever increasing number of members bringing their wives.

The Fall meeting was held at the Mariott Hotel in Dallas, Texas, October 18th and 19th, 1963. J. K. Dixon received the thanks and appreciation of all members as the outgoing President of SWICA. The new officers elected were: President—Roy C. Coffer; Vice President—Frank Taylor; and, Secretary-Treasurer—N. W. Railey. The 1964 Spring meeting will be held May 14th through 16th, at the Driscoll Hotel, in Corpus Christi, Texas.

At the Board of Directors meeting in January 1963, the Publicity and Communications Committee was given the assignment of organizing and publishing a monthly newsletter. This monthly publication has been most effective in tying together the membership between meetings, in addition to keeping the membership well informed and up-to-date on the latest labor legislation and news on the local, state and national level.

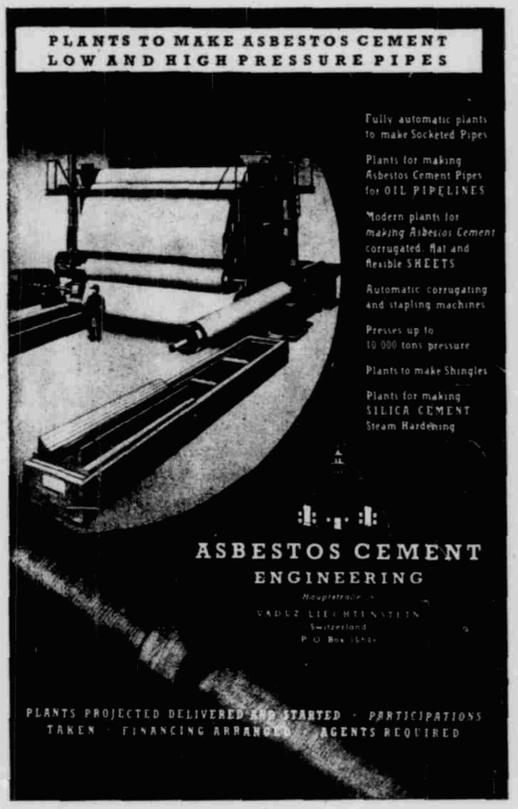
Thermal Insulation Society
Philadelphia Chapter

Following were the activities of the Philadelphia Chapter of the Thermal Insulation Society for 1963:

January—"Thermal Insulation and Protective Coatings" was the subject of a very spirited and interesting panel discussion. Moderator—Charles A. Brown, Owens-Corning Fiberglas Corporation; Panel Members—Charles Bradley, Johns-Manville Corporation; Wayne Ellis, Benjamin Foster Company; W. H. Zane, E. I. duPont Company; S. C. Frye, Bethlehem Steel; Walter Sinclair, Pittsburgh Corning Corporation; and, Thomas Dobson, Mundet Cork Corporation.

February—Dick Madigan, of Johns-Manville, showed a film and talked on the subject of metal jacketed insulation for pipe and equipment.

March—Another film and discussion were presented at the third meeting. Frank Farrell, of Armstrong Cork, showed the film and led the discussion on the subject of



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flexible foamed plastic insulation for pipe and ducts.

April—A plant tour was made at the April meeting. The General Electric Missile & Space Vehicle Center was the facility visited.

May—William Jeavens, of Pittsburg-Corning, showed slides and talked on the subject of "Underground Insulation".

June—Through the sponsorship of Walter Liebert, the annual golf outing was held at the Philadelphia Cricket Club. Election of officers followed the dinner. Elected for the 1963-1964 season were: President—Dwight Satterthwaite. First Vice President—Stanley Hudyma; Second Vice President—Thomas Lee; Secretary—Charles A. Brown; and Treasurer, Donald E. Davis.

September—A business meeting opened the first fall meeting followed by a social and get re-acquainted hour.

October—"Insulation in the Cryogenic Field" was the subject of a very interesting and educational presentation by Linn Scott, Supervisor, Cryogenics Development for Air Reduction Sales.

November—Another very interesting panel discussion was held at the final 1963 meeting. The subject was "Commerical Insulation Specifications, Their Interpretation and Improvements". Moderator—Jesse LeCoff, Catalytic Construction; Panel Members: J. Robert Mearns, Chas. Leopold Associates; William Sweeny, Office of A. Ernest D'Ambly; Jere Hess, Robert J. Sigel Associates; Donald E. Davis, Universal Insulation Company; Stanley Hudyma, Baldwin-Ehret-Hill; and, Walter Liebert, Mechanical Insulation Company.

G. R. MUNGER has been named the new Managing Director of the *Asbestos-Cement Products Association*. Mr. Munger has an Engineering Degree from California State Polytechnic College. He is a registered Engineer in the State of Ohio, formerly Technical Secretary of the American Society of Refrigeration Engineers, and, for the past 8 years, was with Owens-Corning Fiberglas Corporation in various executive capacities.

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CERTAIN-TEED USES R/M PACKINGS

Pumping 1,000 GPM of a highly alkaline asbestos-cement slurry that is about 60% solids is rough on pump packings.

That is, it used to be—at the Certain-teed Products Corporation pipe making plant at Hillsboro, Texas—until their maintenance engineers discovered that premium packings at slight additional cost could ultimately save the company considerable money in maintenance man hours, in replacement pump sleeves, and, most importantly, in elimination of costly production line stoppages.

Certain-teed is one of the country's foremost producers of asbestos-cement pipe. The pipe is designed for a variety of applications ranging from high-pressure water supply to agricultural irrigation to large-scale sewerage operations.

The plant at Hillsboro, one of the largest and most modern of 4 plants producing Certain-teed products, produces pipe in sizes ranging from 4 to 24 inches.

All of the pipe is made on one large machine which is almost a city block long. Of special design, the pipe-making machine is considered so extraordinary a piece of equipment that Certain-teed officials will not permit it to be photographed and will say little concerning the details of its operation.

But, in order for the big machine to function properly, 14 pumps must perform a variety of jobs related to its production process. These pumps include: a 60-foot head, 1,000 GPM recirculating pump that handles the asbestos-cement slurry being fed into the pipe-making machine; 8 vacuum equalizing pumps, each with a 50-foot head; two cooling tower pumps that move water to a heat exchanger and to hydro-testing machines; 2 sediment pumps, one on the wet end, the other on the dry end of the pipe-maker; and, a backwater pump with a 60-foot head that moves 600 GPM.

Because of the character of the material being handled, a number of these pumps are subjected to severe operational stress, in that packings are attacked both chemically and physically, for the slurry used in making asbestos-cement pipes is both highly alkaline and extremely abrasive.

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Pump malfunctions due to rapid packing wear and failure became a major production problem soon after the Certain-teed plant opened in Hillsboro in 1961. At this time, all pumps were packed with graphite-impregnated asbestos rings. On equipment such as the slurry pump, which brings the ingredients into the pipe-making machine, these packings required daily adjustment, mid-week addition of a new ring, and complete replacement every weekend. Although other pumps encountering the product displayed a somewhat slower rate of packing wear, the inability of the packings to resist chemical and abrasive attack caused their rapid failure also. Certain-teed personnel were averaging five man-hours per week in pump packing maintenance alone.

However, pump packing maintenance costs didn't end there. Added to the already serious problem of poor packing performance being experienced by Certain-teed was excessive wear of pump sleeves. Although made of stainless steel, sleeves required replacement in 60 to 90 days.

Last, but far from least, were the occasional pump failures during production hours which shut down the entire line, a most expensive occurrence.

To improve this pump maintenance situation, Certain-teed began experimenting with different types of pump packings made by various manufacturers. One packing which soon attracted their attention was a square-plaited braid asbestos yarn material impregnated with a transient lubricant. The packing, recommended for rugged applications, was designated R/M No. 363 by its manufacturer, *Raybestos-Manhattan, Inc.*

Although originally designed by R/M for use in paper mill application, R/M 363 proved to be the packing Certain-teed was seeking for use on the troublesome slurry pump. The R/M material required only occasional adjustment, no addition of extra rings, and lasted 6 weeks—a performance level six times better than that of previous packings. Further, the use of R/M 363 virtually eliminated another costly problem, sleeve wear. (At this writing, some sleeves which used to require replacement after 60-90 days have been in use for about 18 months and are still serviceable.)

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Best of all, line stoppages attributable to pump packing failure became a thing of the past.

The outstanding success of R/M 363 on the slurry pump led to its specification on all pumps at Certain-teed. Similar 6-to-1 performance ratios over previously used packings were experienced on these pumps.

Impressed by the quality of the Raybestos-Manhattan packings used in pumps, Certain-teed's maintenance engineers at Hillsboro decided to test other kinds of R/M packings on equipment other than pumps to see whether packings performance could be improved and maintenance costs reduced.

As another critical area of their operations is the hydro-testing department, where Certain-teed products are proved prior to shipment, the packing evaluation program moved there.

There are three hydro-testing machines at the Hillsboro plant. These machines accept pieces of pipe in lengths up to 12 feet. The lengths come to the testing area from the pipe-making area, and are guided onto the testers by a simple rolling ramp arrangement.

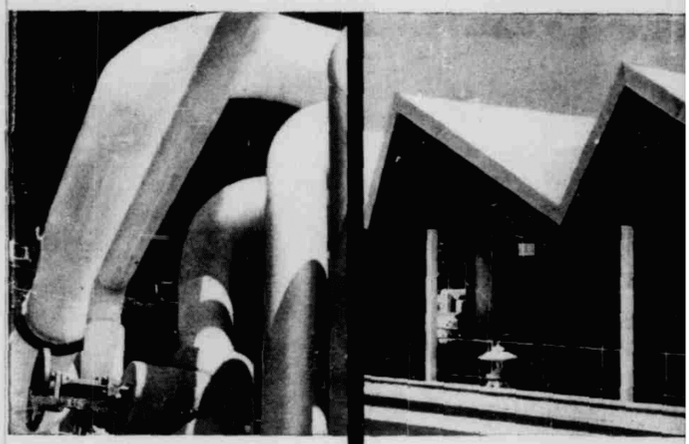
One end of the pipe to be tested is held by a watertight clamp enclosure. The other end is secured by a clamp connected to a hydraulic cylinder that completes the watertight seal and provides an opening through which water is pumped into the pipe under pressures as great as 300 psi. Each piece of pipe must pass leakage and burst tests on this equipment.

On the two cylinders which operate the head of the machine, Certain-teed had used a reinforced packing cup arrangement which gave a normal service life of between two to three months. In place of the reinforced cups, R/M No. 1204 neoprene and duck Vee-Flex packings were recommended and put into service. No. 1204 packings are constructed with a self-adjusting Vee-Flex configuration design that improves wear and performance. When tested by Certain-teed, these packings showed double the service life of those previously used.

Good results with this Vee-Flex configuration led to further experimentation with another R/M packing made according to the same design principles. Machined from

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solid virgin Teflon, this packing, designated R/M No. 850, was found to be 97% effective after a year of operation—a wear rate at least four times greater than that experienced with the original rubber-impregnated duck cups.

By switching to Raybestos-Manhattan packings both for pumps and hydro-testers, Certain-teed has been able to eliminate some 133 maintenance man-hours per year—much of it at time-and-a-half rates as the bulk of the packing *maintenance work was done during weekends when the* line was closed down. In addition to this, substantial savings on stainless steel replacement pump sleeves have been effected. Line stoppages caused by packing failures have also been eliminated.

According to Certain-teed's maintenance engineer, Harold Jarvis, "In our operation, use of second-best maintenance materials can cost us thousands of dollars per year. We learned by experience that use of the best maintenance materials, though slightly more costly at the outset, result in the greatest production economies".

DESIGN ENGINEERING SHOW & CONFERENCE will be held at McCormick Place, Chicago, Illinois, May 11th through 14th, 1964. The theme for this year's show and conference will be, "The Design Engineer: Planner for Progress". Both events are concerned with the development of new products. Among the ten major categories of exhibits will be electrical and electronic components, fasteners and adhesives, finishes and coatings, hydraulic and pneumatic components, mechanical components, power transmission equipment, metals, non-metallic materials, shapes and forms, and engineering equipment and services.

Executives interested in obtaining show or conference information, rapid registration cards for the show, or hotel information, should write the producers of the show—Clapp & Poliak, Inc., 341 Madison Avenue, New York, New York 10017.



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ASBESTOS REINFORCED PLASTICS

By: Wayne O. Jackson

(Mr. Jackson is Section Chief of the Reinforced and Molded Plastics Section of Johns-Manville Research & Engineering Center, Manville, New Jersey.)

Asbestos is one of the most prominent fibers other than glass used today in reinforced plastics. The use of asbestos fibers as structural reinforcements in plastics, although not new, is growing at a rapid pace.

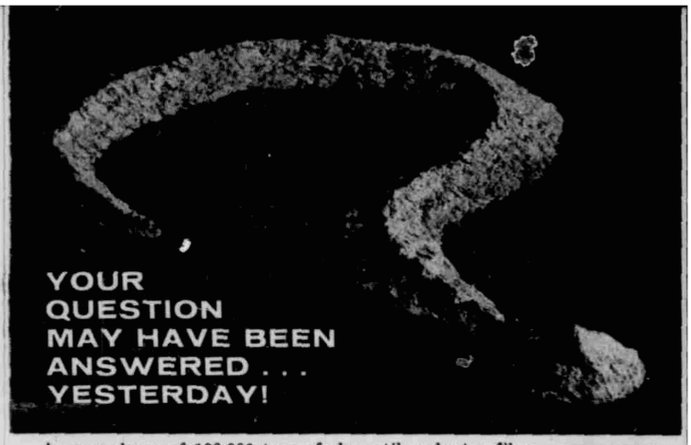
Two types of fibers are used in reinforced thermosetting plastics; namely, chrysotile and crocidolite. The physical form of the asbestos fiber may vary from the loose fiber used in premixes to paper, felt, or mats and to a lesser extent, cloth used for laminated and molded items.

Asbestos reinforced plastic materials (ARP) are being used in several distinct product areas such as corrosion-resistant structures, electrical items and high-temperature and erosion-resistant parts for aerospace applications. Other reinforced plastic parts today use asbestos reinforcements as the chemical-resistant barrier on the exposure side and then use other materials such as glass fiber as a back-up material to provide increased strength.

ARP materials, in such uses as pipe and fittings, because of the diameter and length of the individual fibers coupled with the high degree of wetting by the resin, do not exhibit the "wicking action" frequently encountered with long fibrous reinforcements exposed to corrosive liquid applications.

Asbestos papers, felts and fabrics have been used for many years for selected electrical applications. One of the more recent developments provides a rigid asbestos reinforced laminate composition that is suitable for Class H type of electrical insulation. Resin-treated asbestos millboard is being used in resistor bases and toaster mounts. Asbestos reinforcements are also used to a lesser extent in the preparation of compound for molded electrical applications.

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used for plastic tube liners, adaptors, exit skirts and as backup insulation materials. Parts are produced using conventional laminating and molding techniques as well as the newer technique of oriented tape wrapping. The resin systems predominantly used are phenolic or modified phenolic materials.

Asbestos products are now available which will allow some parts to be made with inexpensive tooling and low pressures (vacuum bag method). The aerospace industry has successfully developed techniques for wrapping an asbestos reinforced phenolic tape around many cylindrical and complex shapes. A process has been developed to continuously extrude an asbestos reinforced thermosetting plastic material which may be adaptable to items such as tubing and dividers.

Asbestos reinforcements have been progressively modified to allow easier combination with thermosetting resin systems. One of the continuing problems with asbestos has been the ability to mix loose asbestos fibers with liquid resins in a premix and obtain thorough wetting. Asbestos fibers presently on the market have reduced the amount of balling and clumping in premix applications. Papers and felts are presently being offered that can be handled on commercial impregnating equipment without strength or wettability problems.

The success attained with ARP materials in chemically resistant structures and in electrical and aerospace items should increase the use of asbestos in other reinforced structural parts and items. As techniques are improved for fabricating asbestos reinforcements with low cost tooling and relatively low pressures, many other items will be designed and prototype parts evaluated using asbestos as a reinforcing fiber and with or without asbestos as a filler.

C. STANLEY manufacturers since 1906
MORGAN WOOL FELT-ASBESTOS
PIPE COVERINGS
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New Carey-Canadian 7M-90 has the following advantages • Trowels easier—reduces labor costs • Whiter finish • 15% less shrinkage • 10% more dry coverage • Hard, non-dusting surface • Competitively priced to save you money.

*Trade vernacular for 7M Asbestos Shorts

Note these laboratory-proven differences in shrinkage and whiteness between Carey-Canadian 7M-90 and a well known competitive 7M.



	Carey 7M-90	*Brand X*
Shrinkage (volumetric)	33.7%	44.3%
Wet Coverage (1·1 ratio)	28.5 Bd. Ft.	27.7 Bd. Ft.
Dry Coverage	18.9 Bd. Ft.	15.5 Bd. Ft.

Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 15095, Lockland, Cincinnati 15, Ohio, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P.Q., Canada.

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ASBESTOS—*M. S. Badollet* (former Research Engineer for Johns-Manville Corporation and at present a Consultant) has written the chapter on Asbestos for publication in the Encyclopedia of Chemical Technology (Volume 2, pages 734 to 747, 1963). This chapter contains illustrations and a considerable amount of interesting and useful information. It covers such things as history and deposits, recent discoveries and developments, physical and chemical properties of six varieties of asbestos, geology and origin, mining and milling, grading and tests, production and prices, and uses.

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

1964 BOOK OF ASTM STANDARDS — The entire span of today's knowledge of materials and materials testing is reflected in the 32-volume 1964 Book of ASTM Standards, published by the American Society for Testing and Materials. The 1964 Book contains 22,000 pages and more than 3,200 standard specifications, methods of testing definitions and terms, and recommended practices. Each of the 32 parts covers a specific field of interest and includes a detailed index, table of contents, and numeric list of standards. Beginning with the 1964 Edition, the Book will be brought up-to-date and published *annually* with the various parts available on the same scheduled date each year. There will no longer be supplements.

For the 1964 Parts that are now available and the scheduled availability date of other parts during 1964, contact ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103.

THE ASBESTOS FACTBOOK (3rd Edition), a 20-page pamphlet giving in compact form facts concerning *origin, locations, uses, analyses, and qualities of asbestos*, is available at 25¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

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These flexible new materials, based on long Crocidolite and Amosite asbestos fibers, offer an economical basic fabric suitable for a multitude of products. Insulating liners; base fabric for gaskets, for foil or coatings; plastics reinforcement – are a few of the many possible applications for NORAMITE Non-Woven Fabrics.



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AUTOMOBILE SALES

	November 1963
Passenger Cars	748,538
Trucks and Buses	124,723
	873,261

In November 1962 a total of 801,954 motor vehicles were sold. In the 11 months of 1963 the total was 8,218,611.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

FRANK T. GATKE—The Board of Directors of both the *Asbestos Textile Company, Inc.* and the *Gatke Corporation* is pleased to announce the election of Mr. Frank T. Gatke as President, succeeding the late Mr. Thomas Gatke, Founder.

Mr. Frank T. Gatke was previously Executive Vice President—Manufacturing—Marketing.

In his 30 years of experience with the company at its corporate headquarters in Chicago, Illinois, as well as in both the North Brookfield, Massachusetts, and Warsaw, Indiana, factories, Mr. Gatke has acquired a wealth of experience in plant management, engineering, research and development. This included moulded and woven asbestos friction products, asbestos textiles and sheet packing, moulded fabric bearings, suction box covers, and special shapes.

In assuming his new office, Mr. Gatke stated that the firm will continue its policy of designing and engineering new and better friction materials for brakes and clutches and moulded materials for bearings, and other special shapes, for a variety of industries, as it has for the past 50 years. Also, he announced plans for an enlarged research effort to design and develop new products.

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In Canada — The Flintkote Co. of Canada Ltd., 30th St., Long-branch, Toronto, Ontario
Flintkote Mines Ltd., Thetford Mines, P.Q., Canada
In England — The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England

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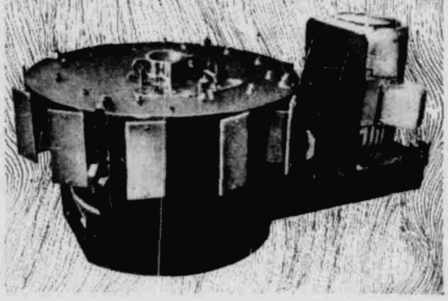
WADE W. HILDINGER, 51, *Vice President of Sales of National Gypsum Company*, while in Florida on business, died December 29th, 1963, in the Roosevelt Hotel fire, Jacksonville.

Mr. Hildinger was born in Nash, Oklahoma, on New Year's Day 1912 and graduated from Phillips University in 1933. He joined National Gypsum in 1942 as a salesman, advanced through the positions of District Sales Manager (Birmingham, Alabama and Dallas, Texas Districts), Director of Dealer Relations, Assistant General Sales Manager, General Sales Manager of Dealer Sales, Director of General Sales, Vice President of Marketing, and Vice President of Sales.

EDWARD BALIOL SCOTT died at the age of 90 at Whitnesham, Suffolk, England, on December 23rd, 1963. In 1901, he became editor of *The Mining Journal* in which his family had, some years previously, acquired a controlling interest, and he remained in the chair for over 50 years *until his retirement in 1954 at the age of 81*—surely one of the longest editorships in the annals of technical journalism.

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ASBESTOS WASTE
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NEW YORK 6, NEW YORK

NEW SIMPLICITY D'CENTEGRATOR



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Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

OTHER MINING INDUSTRY EQUIPMENT: vibrating screens, feeders, grizzly feeders, scalpers, crushers, conveyors.

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EXPORT: Brown & Sites, 50 Church St., New York 7, N.Y.

BUILDING

For the third time in less than a year, the Dodge index of construction contracts hit another new high. The December 1963 value of the index was 148 (1957-59=100), the F. W. Dodge Company (a division of McGraw-Hill, Inc.), reported. Previous highs were October (146) and May (144).

For the full year 1963, total nonresidential contracts value was $14,377,420,000, an increase of 11% compared to 1962. Hospitals and public buildings showed the biggest percentage gains for the year (38% and 42%), while the three categories accounting for the largest volume of nonresidential building—commercial, manufacturing, and education—all showed annual gains of between 5% and 10%.

For the full twelve months, residential contracts amounted to $20,502,010,000 for a gain of 14%.

Total building contracts, residential and nonresidential together, were up 12% for the year.

Public Works contracts—*including streets and highways*, bridges, and sewerage systems—finished the year 3% ahead of 1962 with a contract total of $8,121,983,000.

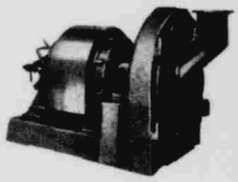
While the cumulative volume of utilities contracts were below the 1962 rate as late in the year as October, the strong surge in the closing months was enough to reverse the trend and establish a gain of 8% for the full year. The twelve month contract total for utilities was $2,544,867,000.

Total of construction contracts for December 1963, *with percentage changes from* December 1962, are: nonresidential building, $1,102,189,000, up 20%; residential building, $1,325,499,000, up 14%; and, nonbuilding construction, $984,859,000, down 11%—total construction, $3,412,547,000, up 7%.

Cumulative totals of construction contracts for the year 1963 with percentage changes from 1962, are: nonresidential building, $14,377,420,000, up 11%; residential building, $20,502,010,000, up 14%; annd, nonbuilding construction, $10,636,850,000, up 4%—total construction, $45,546,280,000, up 10%.

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These mills are adaptable to many specific purposes. We engineer installations to meet your requirements. Bauer experience in both wet and dry milling and our research facilities are at your service to help solve your production problems. Ask for Bulletin G-3.



Bauer-McNett Classifier—The Quebec Asbestos Mining Association has set up test methods, using this classifier in wet analysis, to determine size, length, distribution and dust content of asbestos fiber. Ask for Bulletin P-8-A.

The Bauer Bros. Co. Springfield, Ohio

In Canada: The Bauer Bros. Co. (Canada) Ltd., Brantford, Ont.

Export Agents: M. Neumunz & Son, Inc., 90 West Street, New York 6, N. Y.

MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good but no substantial improvement is noted. Steel production continues to rise and this industry is looking for further increases in sales and production. Industrial production is steady and it is here that a good healthy increase could give the entire economy a boost. Retail sales for December were extremely good indicating that people are spending a good part of their rising personal incomes. With the tax cut, which seems almost a certainty now, people will have still more disposable income and if this is spent, rather than put into savings, a substantial increase in production should occur. This well might start the increase in our rate of growth which is the aim of the administration.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during December 1963 were 87,578 tons or 11,139 tons above the same period last year, which represents an increase of 14%.

Total 1963 fibre shipments at 1,149,615 tons exceeded 1962 total fibre shipments by 32,478 tons or 3%.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The asbestos textile industry has gotten off to a fast start in the new year. Manufacturers report new orders are exceeding production capacity with inventories being reduced and in many cases deliveries being extended. There has also been a general firming in prices with increases reported to offset the wage increases effective in the latter part of 1963. It appears that volume of demand in January will exceed the prior year and expectations are for the quarter to be ahead of 1963.

Asbestos Brake Lining. The present market situation for this material is good and this condition should continue in the months to come.

Asbestos Paper & Millboard. This market seems to be holding firm, with no decisive changes in either an upward or downward trend. It is expected that the volume of business in 1964 should be equal to, or better than, 1963.

High Pressure Insulation. At the present time, business has recovered to a good level and pricing conditions have become more firm. This situation should continue and 1964 is expected to be a good year with an increase in requirements for this material.

Asbestos-Cement Pipes. The current market for this product is seasonally weak. This is an opportunity to replenish stocks which are abnormally low, due to an unusually high demand during the last quarter of 1963. The business outlook for 1964 is encouraging and should show significant gains over 1963.

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

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PRODUCTION

AFRICA (Southern Rhodesia)

Tons 2,000 lbs.	Production	Value
October 1963	11,874	£499,636
October 1962	12,062	£618,186
November 1963	12,461	£537,293
November 1962	11,447	£584,687

Canada's Mineral Production—1963 (Preliminary Estimate)—Three billion dollars was the estimated value of the mineral production of Canada during the year 1963, according to a compilation prepared by the Dominion Bureau of Statistics, Ottawa. The valuation of $2,976 million in 1963 was an increase of 4.6% above the $2,845 million worth of mineral products shipped in 1962. A historical review shows Canada's mineral output exceeding half a billion dollars in 1940, breaking the billion mark in 1950, and having a value of over $2 billion in 1956.

Shipments of non-metallic minerals increased 3.6% to reach a value of $222 million. Over half of this value, or $135 million, was credited to the asbestos mining industry. In 1963, it is estimated that Canada produced 1,272,024 tons of asbestos, valued at $134,880,206. This compares with the 1962 statistics of 1,215,814 tons valued at $130,281,966.

Asbestos In 1963—(Annual Preliminary Estimate, Mineral Industry Survey): Domestic production of asbestos in 1963 was 24% above 1962, according to estimates submitted to the Bureau of Mines, U. S. Department of the Interior. Most of the increase took place in California. World production was slightly less than 1962. Imports of asbestos into the United States increased 5% in 1963.

United States:	1962	1963-Estimated
Production (sales) short tons	53,190	66,000
Value	$ 4,677,000	$ 5,500,000
Imports (unmanufactured) short tons	676,027	700,000
Value	$64,150,000	$66,000,000
Exports (unmanufactured) short tons	2,949	3,000
Value	$ 588,000	$ 600,000
Apparent consumption—short tons	726,268	763,000
World production: short tons	3,055,000	3,035,000

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — September 1963

Unmanufactured Asbestos: — Short Tons

From: Canada		50,785
Mozambique		350
Republic of South Africa		2,455
Rhodesia & Nyasaland		90
United Kingdom		53
Yugoslavia		827
Other Countries		84
Valued at:	$4,807,112	54,644

By Grades:

Amosite, Crude, Mozambique	350
Republic of South Africa	2,190
Crocidolite (Blue), Crude, Republic of South Africa	265
Chrysotile, Crude, Yugoslavia	827
Other Countries	23
Chrysotile, Spinning Fibres, Canada	1,111
Chrysotile, Other, Canada	37,540
Asbestos, Other, Canada	12,134
United Kingdom	53
Rhodesia & Nyasaland	90
Other Countries	61
	54,644

Manufactured Asbestos Goods:

A-C Pipes, Tubes & Fittings, Canada	244,944	$ 10,987
Mexico	1,159,657	98,072
Belgium	3,164,076	191,823
West Germany	2,086,764	85,130
Italy	969,763	36,239
Japan	1,445,753	58,760
A-C Articles, Other, Canada	710,092	43,710
Belgium	700,687	94,448
Other Countries	10,089	652
Asbestos Yarn, United Kingdom	32,319	19,306
Asbestos Articles, Other, Canada	..	53,775
Other Countries	..	13,139
		$706,041

Imports By United Kingdom

Raw Materials

Tons 2,240 lbs. — November 1963

From: Republic of South Africa	2,137
Basutoland, Bechuanaland & Swaziland	1,433
Rhodesia & Nyasaland	3,565
Canada	7,873
Other Commonwealth Countries & Irish Republic	143
Foreign Countries	54
	15,205

Exports From U.S.A.

(Figures by Bureau of the Census) — September 1963

Unmanufactured Asbestos:

	Short Tons	Value
To: Australia	110	$ 7,197
Colombia	300	13,272
Italy	16	3,500
Japan	397	36,764
Mexico	105	18,492
Philippine Republic	27	2,600
Republic of Congo	700	79,809
Republic of South Africa	4	1,156
Switzerland	20	8,000
United Kingdom	20	1,880
West Germany	21	5,559
Other Countries	12	1,918
	1,732	$ 180,138

Manufactured Asbestos:

	Production	Value
Asbestos Cement & Pipe Covering..Lbs.	413,771	$ 62,340
Asbestos Textiles & Yarn .....Lbs.	157,382	101,504
Asbestos Packing .....Lbs.	76,071	121,317
Asbestos Clutch Facing .....No.	288,742	179,363
Asbestos Bk Lng (Mld & S.Mld) Lin. Ft.	195,196	61,298
Asbestos Brake Lining, Other ....Lbs.	593,780	343,564
Asbestos Construction Material ...Lbs.	2,148,178	240,873
Asbestos Manufactures—Other	..	78,185
		$1,188,444

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos: November 1963

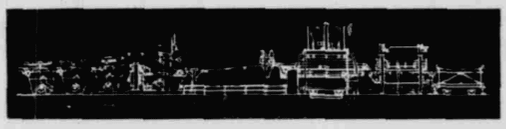
Crude

	Short Tons	Value
United States	13	$ 16,320
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	28	20,170
Other Countries	5	3,800
	46	$ 40,290
Milled		
United States	13,917	$ 2,620,921
United Kingdom	6,061	1,117,585
South America	3,324	572,902
Central America & Mexico	1,164	204,618
European Countries	16,315	3,115,870
Other Countries	7,813	1,390,045
	48,594	$ 9,021,941
Shorts		
United States	33,611	$ 1,789,326
United Kingdom	3,434	166,835
South America	789	54,769
Central America & Mexico	186	12,110
European Countries	11,432	723,888
Other Countries	4,914	411,900
	54,366	$ 3,158,828
Grand Total— Unmanufactured Asbestos:	103,006	$12,221,059
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 23,381
Asbestos-Cement Building Materials		74,112
Asbestos-Cement Products, Other		13,151
		$ 110,644

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INDUSTRY NEWS

HAPPY BIRTHDAY

I. J. Harvey, Jr., Chairman of the Board, The Flintkote Company, New York City, February 20.
Robert Sanderson, President, Acme Asbestos Limited, Vancouver, B. C., Canada, February 21.
Michael J. Messel, President, Lake Asbestos of Quebec Limited, New York City, February 22.
Dr. Roger W. Sanftner, Vice President Development, Nicolet Industries, Inc., Florham Park, New Jersey, February 22.
George W. Smith, President, Bell Asbestos Mines Limited, Thetford Mines, Canada, February 22.
Robert E. Cryor, President, Cape Asbestos (Canada) Limited, Toronto, Canada & North American Asbestos Corporation, Chicago, Illinois, February 23.
Dr. D. B. Wicker, Vice President—Research & Development, Huyck Felt Company, Rensselaer, New York, February 24.
R. D. Williams, Vice President, Lake Asbestos of Quebec Limited, New York City, February 24.
Dr. M. Lieff, Vice President—Technical Director, Smith & Kanzler Corporation, Linden, New Jersey, February 25.
Geoffrey E. Gole, General Works Manager, Wunderlich Limited, Sydney, N.S.W., Australia, February 27.
A. S. Johnson, President, Johnson's Company Limited, Thetford Mines, Canada, February 28.
Leonard Krez, President & Treasurer, Paul J. Krez Company, Chicago, Illinois, February 28.
J. L. Rainey, Vice President, American Asbestos Textile Corporation, Norristown, Pennsylvania, March 1.
Gordon H. Gibbs, Mining Engineer, Willowdale, Ontario, Canada, March 3.
John H. Matthews, Director & Consultant, Manhattan Rubber Division, Raybestos-Manhattan, Inc., Passaic, New Jersey, March 3.
Kempton Dunn, Chairman & Chief Executive Officer, American Brake Shoe Company, New York City, March 5.
A. E. Binger, Vice President, Smith & Kanzler Corporation, Linden, New Jersey, March 6.
M. E. Curtis, President & Treasurer, Curtis Asbestos Company, Boston, Massachusetts, March 7.
Leonard L. Hank, Senior Vice President—Operations, National Gypsum Company, Buffalo, New York, March 7.
William G. Brinker, President, The Clark Asbestos Company, Cleveland, Ohio, March 8.
Walter E. Miller, Executive Vice President, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, March 8.
William A. Sussman, Vice President & Secretary, The Sussman Asbestos Company, Toledo, Ohio, March 8.



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M. P. *Carson, General Sales Manager, Asbestos Corporation* Limited, Thetford Mines, Canada, March 10.
A. Lines, Superintendent, Durabestos Works, Wunderlich Limited, Parramatta, Australia, March 11.
Conrad L. Wiegers, President, Allied Services, Inc., Charleston, West Virginia, March 11.
Haydn S. Wood, Secretary, Philadelphia Asbestos Company, Philadelphia, Pennsylvania, March 11.
Colin S. Hoyes, Works Manager, Wunderlich Limited, Brisbane, Queensland, Australia, March 14.
William A. Kamke, Vice President & Treasurer, The Sussman Asbestos Company, Toledo, Ohio, March 14.
To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

American Asbestos Textile Corporation has announced the following appointments: A. J. SCANLAN — Chairman of the Board; J. W. WEBER — President and Treasurer; and J. L. RAINEY — Vice President.

RUBBER RINGS



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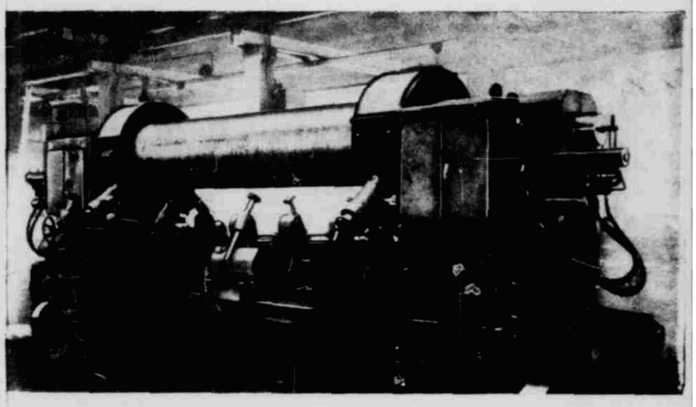
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Suppliers of the largest manufacturers
of asbestos-cement pipes in Europe.

J.M.VOITH A.G.

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Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually *improving the design of the individual machines and by making their* operation largely automatic.

We invite you to avail yourself of the experience of our staff of expert engineers and highly-skilled craftsmen!



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Robert L. Zale has been appointed Sales Promotion Manager of NATIONAL GYPSUM COMPANY. The company is expanding its sales promotional activities and in his new post, Mr. Zale will work closely with National Gypsum's customers and its 700-man sales force coordinating advertising and sales promotion, introducing new products and developing merchandising programs and new markets.

E. W. Douglass has been named Sales Manager of THE FLINTKOTE COMPANY's new "Architectural Products Sales organization, and will be based at Flintkote's facilities in Richmond, Virginia.

The purpose of the architectural group is to expand and strengthen the marketing of architecturally-oriented items in Flintkote's building products line. The new sales force will handle merchandising and selling and will offer specification and technical service assistance to architectural and construction firms for Flintkote building products and systems. District offices have been established in Detroit, Michigan; Chicago, Illinois; Atlanta, Georgia; Dallas, Texas; and, Camden, New Jersey.

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Natural	Slivers, Rovings, Yarns
Man Made	Braids, Tapes, Cloth
Inorganic	By-Products
Natural	Molded, Bonded
Man Made	Fiber Reinforced
PROCESSES	**SERVICES**
Fiber Forming (Glass, etc.)	Product Origination
Decorticating, Degumming	Process Origination
Textile (Carding, Spinning, etc.)	Process Lay-Out
Wire Covering	Surveys, Plant and Department
Fiber Opening, Blending	Research, Experimental and Educational Programs
Non-Woven	Investigations
	Equipment and Supplies (New and Used)

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

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Claude H. Allard has been elected a Vice President and named General Manager of the Textile Division of UNITED STATES RUBBER COMPANY, succeeding **William E. Clark,** who has retired from the company. Mr. Allard joined U. S. Rubber's Naugatuck Chemical Division as a Research Chemist in 1947 shortly after he received a bachelor of science degree in chemistry from Lowell Technological Institute in Lowell, Massachusetts.

Caribbean Asbestos Products Limited will erect a new factory for the manufacture of asbestos-cement pipes in Jamaica. The factory will be situated at Riverbay Industrial Subdivision, Montego Bay. The *managing agents are Distributors Limited,* Kingston—authorized capital: £125,000. 0. 0.

Following are the officers of the company: Chairman— K. H. Ivan Levy, Eric G. Levy, Karl O. Levy, R. E. Powell, Charlie Browne, Dr. H. A. A. Brown, Stanley Rubens, N. D. Oates and Joseph M. Klein.

RUBBER RINGS "IDEAL." TRADE MARK 134919

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RUBBER RINGS FOR ALL TYPE OF JOINTS

for pipes of asbestos cement

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For the beneficiation of asbestos ore,

Modern HAZEMAG Impact Crushers

(Andreas System)



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

Modern HAZEMAG Rapid-Dryers

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

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Australia: Noyes Bros. Pty. Ltd.
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CURRENT RANGE OF PRICE

As of February 10, 1963

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

No. 1 Crude (soft)	$1,475.00 to	$1,650.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	550.00
Group No. 4 (Plastic & Filtering)	385.00 to	420.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

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

	Canadian Currency	
Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

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

	(U.S. Dollars—converted to Canadian equivalent)	
Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

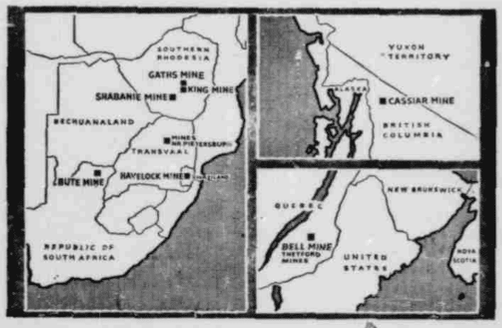
CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.

(As of January 1, 1964)	Canadian Currency
AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00

asbestos

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from Britain's largest *distributors*

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ASBESTOS STOCK QUOTATIONS

These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

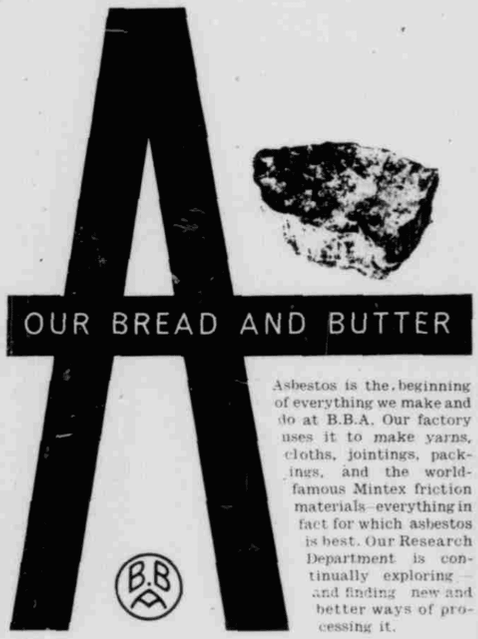
		January 1964		
	Par	Low	High	Last
Advocate Mines Ltd	1	$6.40	$6.80	$6.50
American Brake Shoe	np	49	51⅞	50½
Asarco	np	83⅜	94¾	90¾
Armstrong Cork (Com)	1	109	117	109¾
Armstrong Cork (Pfd)	np	88¾	91	90
Asbestos Corporation	np	20¼	23½	21¾
Philip Carey	10	23½	25⅛	24½
Cassiar Asbestos Corporation	np	10⅛	11¼	11
Certain-teed	1	14⅜	16	14½
Fibreboard	np	36	38⅜	36¾
Flintkote (Com)	5	23½	25⅜	23½
Flintkote (Pfd)	np	90	90	90
Jefferson Lake Asbestos	1	3⅜	4⅝	4⅛
Johns-Manville	5	48½	54⅜	54¼
National Gypsum (Com)	1	44⅞	48	47
National Gypsum (Pfd)	np	100	102	102
Porter, H. K.	100	99	100¾	100¾
Raybestos-Manhattan	np	38⅞	39⅜	39¼
Ruberoid	1	26⅛	28½	28¼
Seagrave	2½	9	10⅞	9¼
Unarco Industries	5	12⅛	14⅜	12⅜
United Asbestos	1	$2.20	$2.73	$2.55
U. S. Rubber (Com)	5	44⅝	48⅜	47
U. S. Rubber (Pfd)	100	164½	169	167¼

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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Asbestos is the beginning of everything we make and do at B.B.A. Our factory uses it to make yarns, cloths, jointings, packings, and the world-famous Mintex friction materials—everything in fact for which asbestos is best. Our Research Department is continually exploring — and finding new and better ways of processing it.

British Belting & Asbestos Ltd.

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ASBESTOS PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Asbestos Fiber Beater Saturation Using Very Small Inorganic Particles, No. 3,102,063. Granted on August 27, 1963, to L. N. Ray, Jr. (assigned to Armstrong Cork Company, Lancaster, Pennsylvania). In the production of a beater saturated sheet wherein the rubber content of a synthetic rubber latex is smoothly and evenly deposited o nthe surface of chrysotile asbestos fibre, the fibre is pre-treated by adding to a slurry of the fibre 4-150% of extremely fine or colloidal diatomite, silica, aluminum silicate, or other water-insoluble, inorganic particles, and gently agitating the slurry. Thereafter, the latex can be applied smoothly without undesirable coagulation.

Acoustical Tile and Method Of Producing the Same, No. 3,103,254. Granted on September 10, 1963 to C. E. Stedman (assigned to U. S. Perlite Corporation, Chicago, Illinois). In the manufacture of acoustical tile, a mixture of No. 7 asbestos fibre and either expanded perlite or exfoliated vermiculite is dry mixed, the mixture coated with a water-soluble organic silicone resin, and the coated mass of particles impregnated with an aqueous solution of sodium silicate and urea. This mixture is molded into tile shapes under pressure, and the tiles dried.

Fire Retardant Acoustical Tile, No. 3,103,444. Granted on September 10, 1963 to R. F. Cotts (assigned to The Celotex Corporation, Chicago, Illinois). In the preparation of fire resistant acoustical ceiling tile, a mixture of tufts of mineral wool, sodium hexametaphosphate, boric acid, a paraffin wax, and pulverulent chrysotile, ball clay, kaolin, or talc is formed into slabs, and the slabs fissured by screeding, dried, and cut into individual tiles.

Heater, No. 3,105,484. Granted on October 1, 1963, to D. C. Goff. The heat-conserving chamber of a heater for outdoor use in orchards and vegetable fields is insulated with asbestos fiber, exfoliated vermiculite, expanded perlite, mixtures of gilsonite with filler materials, or the like.

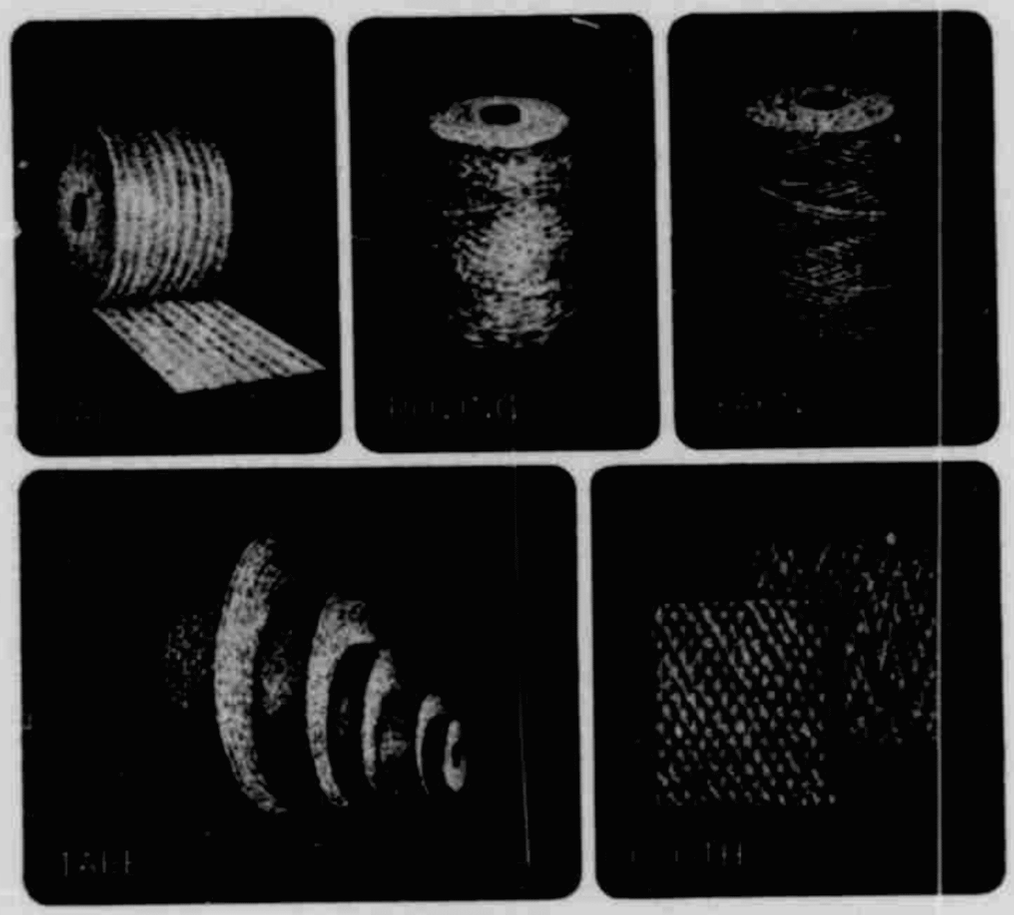
Fiber Opener and Cleaner, No. 3,111,719. Granted on November 26, 1963, to E. H. Novotny (assigned to Johns-Manville Corporation, New York City.) An improved pneumatic apparatus for opening and cleaning asbestos fibre, mineral wool, and the like comprises a spiral type unit wherein a plurality of air jets act on the fibrous material.



R/M Lagging Cloths reduce both the weight and cost of shipboard and steamplant insulation; offer high tensile strength and excellent ravel resistance. Cloths coated with our SRC finish require only one paint application for a good appearance. R/M weaves all of the asbestos cloths described by Federal Specifications SS-C-00466d (Navy-Ships). Write for samples and complete information.

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SPECIALISTS IN ASBESTOS, RUBBER, ENGINEERED PLASTICS, SINTERED METAL



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whether it is plain or metallic cloth in herringbone or other weaves, or any of the more basic asbestos forms illustrated above, Porter Asbestos Textile products are available in all types, grades and forms.

For detailed information on any kind of asbestos textile product to meet the most exacting demands for heat, friction and acoustical problems, call or write Thermoid Division, H. K. Porter Company, Inc., 1000 Seaboard Street, Charlotte, North Carolina 28206, or Porter Building, Pittsburgh, Pa. 15219.

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