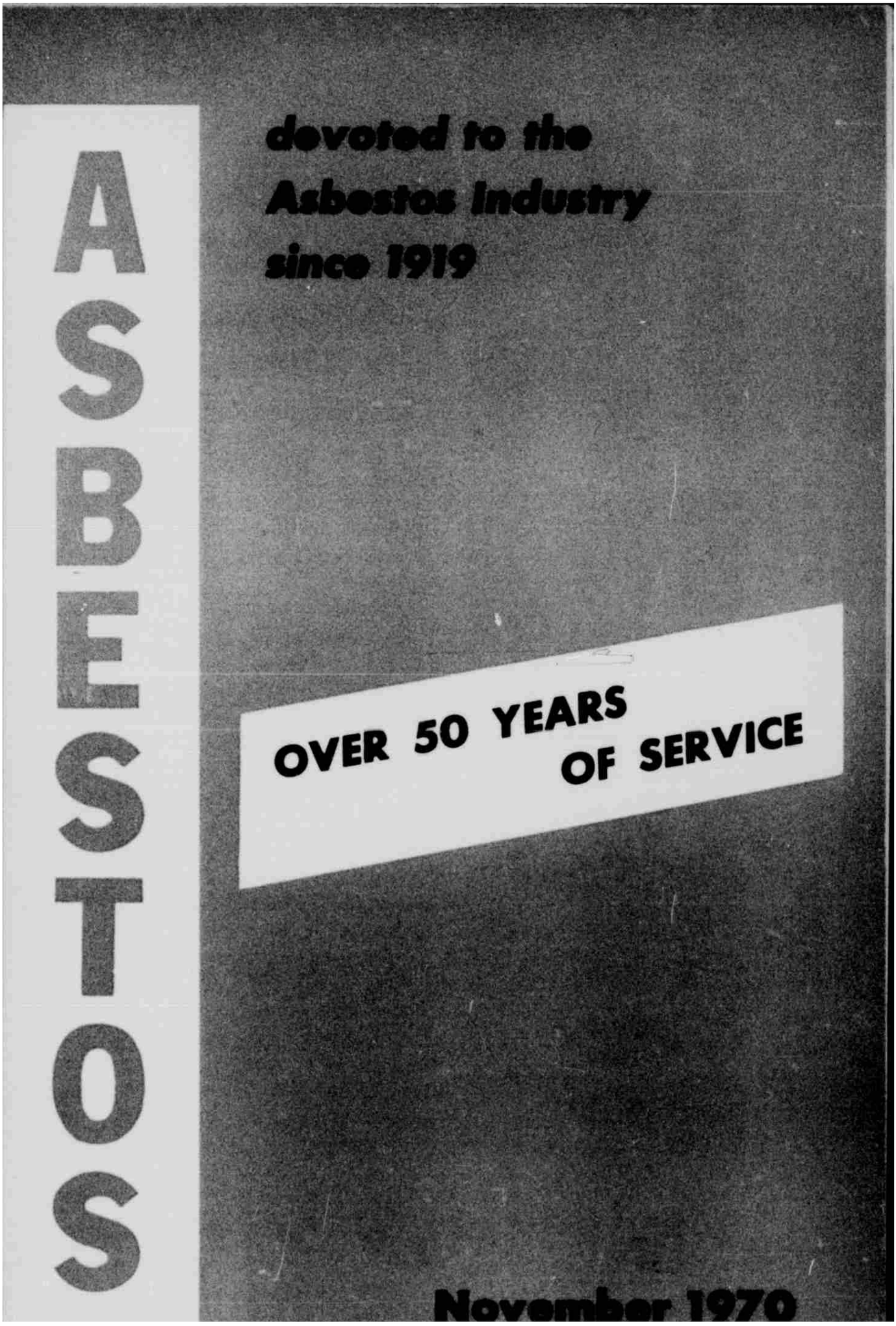


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ASBESTOS

VOLUME 52 NOVEMBER 1970 NUMBER 5

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter IV: Greene, Tweed and Company, including Asbestos Fibre Spinning Company

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

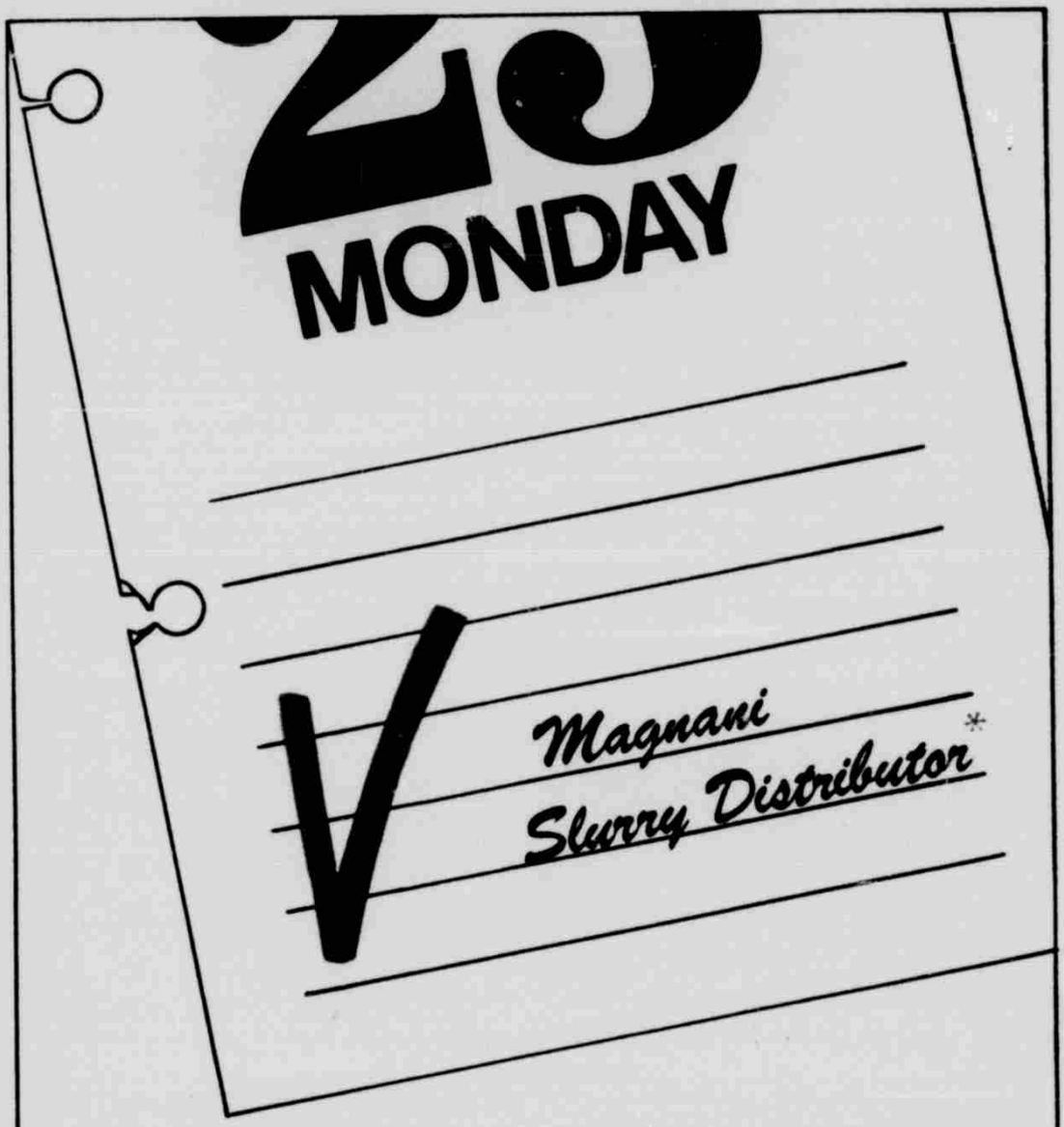
The Greene, Tweed story is excerpted from a fascinating little booklet published by the company and entitled "1863-1963. A Short Account of 100 Eventful Years." The reading of this commemorative booklet in its entirety is recommended to all members of the industry, especially those associated with the asbestos packing business.

The history of Greene, Tweed underscores the premise that "the steam engine was the father of the asbestos textile industry." The company was founded in New York City May 8, 1863, not as a packing manufacturer but as a jobber of hardware and mill supplies. The original partners were J. Ashton Greene, John W. Greene and Henry A. Tweed. The original location at 17 Murray Street was then, and still is, in the center of New York's wholesale hardware district.

The company's anniversary booklet points out that 1863 was not a propitious time to start a new business. The war between the States was in its second year and the tides of war were running against the Union. The atmosphere in New York was one of apprehension. The newly-formed company found the going rough until the great Union victory at Gettysburg in July, 1863, restored the morale of the North. By the time the war ended, on April 9, 1865, salesmen for Greene, Tweed were covering the entire industrial North. As soon as the war was over the aggressive G-T sales force established sales districts in all of the 35 States and 10 Territories which then comprised the Union.

By 1865 the company had expanded its general hardware line to include marine hardware and solid brass hard-

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ware used by builders. Leather belting and harness were important lines of products. A company specialty was the white cotton fringe which decorated "the surrey with the fringe on top."

Of more immediate interest to our textile story was the developing relationship between Greene, Tweed and the Manhattan Packing Manufacturing Company. The latter company was formed in 1872. Starting in 1873 Greene, Tweed became an important distributor of Manhattan packings. By 1880 Manhattan packings were a major portion of Greene, Tweed's mill supply business.

The most popular styles of packing in 1880 were square-braided flax, cotton duck and rubber. The square-braided packings were lubricated by immersion in hot tallow. Naturally, the external surface was excessively lubricated while the center was inadequately lubricated. Manhattan claims credit for the first internally-lubricated cotton packing, surely a major improvement at the time. The next logical step was the development of "Palmetto" packing, a brand which was destined to make the company world-famous. The original Palmetto packing consisted of Sea Island cotton yarn, prelubricated with mineral oil and graphite and then braided.

In August, 1889, Greene, Tweed purchased the Manhattan Packing Manufacturing Co. It is therefore in order to say Greene, Tweed has been in the packing business since 1872—the year Manhattan was organized.

During the period just prior to 1900 numerous packing manufacturers were seeking ways and means to cope with the ever-increasing temperatures of the steam engine and other steam-activated equipment. Several companies turned to asbestos yarns as the logical improvement over cotton or flax. Many of these early asbestos packings were inadequately lubricated, resulting in scored piston rods and a bad image for asbestos packings in general. Palmetto packings can claim credit for having rescued asbestos packings from their initial unpopularity. Greene, Tweed utilized its already developed process of prelubricating braiding yarns. The improved Palmetto packing was made using a hemp core and an outer jacket of asbestos yarn. As asbestos yarns became more

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available and lower in cost, the packing was braided entirely from prelubricated asbestos yarns. It was this construction which provided a long-lived resilient packing and built the Palmetto reputation for a quality product. It is interesting to note the Palmetto brand name was selected because the braided construction was thought to resemble the overlapping scales of bark on the trunk of the palmetto tree. At no time, however, did the palmetto tree contribute an integral part of Palmetto packings.

At this point we must depart from the Greene, Tweed story to record the establishment of the Asbestos Fibre Spinning Company (AFS) at North Wales, Pennsylvania. AFS was started in 1899 as a partnership, with the following officers: Christopher Huber, President; George Schafenacker, Vice President; and Dr. W. H. Huber, Secretary-Treasurer. Manufacturing operations started in 1899 with one set of cards and one mule. George Schafenacker had been in the woolen business from the time he was 12 years of age. He had charge of manufacturing. Dr. Huber devoted his time principally to sales. The business was incorporated in 1903.

In 1920 George Schafenacker died and his son, George Jr., took over as Vice President and General Manager.

By 1924 manufacturing facilities had been expanded to 16 sets of cards and related equipment. The mill specialized in asbestos fine yarns (finer than 20-cut) and was logically one of the earliest weavers of asbestos fine tapes for insulation of electric motor windings.

Green, Tweed purchased the major portion of its asbestos yarn requirements from AFS right from the start (1899.) This was the beginning of a close association which eventually resulted, in 1943, in the consolidation of the two companies.

We now return to the Greene, Tweed story. In 1901 Henry S. Demarest left his position as Purchasing Agent for the Henry R. Worthington Company (now Worthington Corporation) to devote full time to the sale of Palmetto packings. Mr. Demarest was a salesman with a flair. About 1908 he purchased a Rolls Royce and called on the trade using his chauffeur-driven car. His favorite sales pitch was

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to don a pair of coveralls and pack the pump of the most troublesome piece of equipment in the prospective customer's shop. Despite the flamboyant front, Mr. Demarest was a man of great ability. He was elected a member of the American Society of Mechanical Engineers even though he did not hold an engineering degree. During World War I he was a member of the Government-sponsored Hardware, Metals and Allied Trades Committee. After the war Poland conferred on Demarest the "Order of Polonia Restituta" for his effective efforts in promoting the cause of an independent Poland.

Henry Demarest was in large measure responsible for guiding Greene, Tweed through the bitter depression following the 1929 crash. In 1932 he assumed the Presidency and directed Greene, Tweed for five of its most successful years. Mr. Demarest died in 1937.

In 1940 Greene, Tweed was sold by the Manufacturers' Trust Company, trustees for the estate of Henry Demarest, to Max Delfiner. Mr. Delfiner had recently arrived from Europe as a refugee from the Nazi occupation of Austria. He was a prominent industrialist and banker and had many years of experience in the textile industry. While he could hardly speak English when he arrived, and knew nothing of the packing business, he recognized the promising potential of Greene, Tweed and purchased the business.

In June, 1940, the company hired Walter S. Josephson as a sales engineer. He rose rapidly through the ranks and was successively Assistant to the General Manager, Assistant to the President and is currently Vice President and General Manager of the corporation. In 1963 and 1964 he served as President of the Mechanical Packing Association (now the Fluid Sealing Association) and is presently a Director and a member of the Standards Committee of that organization.

In 1941 Mr. Delfiner relocated the manufacturing facilities from the Bush Terminal Building in Brooklyn to larger quarters at 4377 Bronx Boulevard in the Bronx. This was to be the company's home until 1946.

On December 7, 1941, the Japanese attacked Pearl Harbor. The United States was actively drawn directly into

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World War II. The demand skyrocketed for asbestos textiles and almost everything made from asbestos yarn. Demand for Palmetto packings exceeded the capacity of the Bronx plant. In 1942 Mr. Oscar Trumbull came from the Asbestos Textile Company of North Brookfield, Massachusetts, to become General Manager of Greene, Tweed. By 1943 asbestos textiles had become a critical war material. In order to assure a continuing and dependable source of supply Greene, Tweed purchased the Asbestos Fibre Spinning Co. Oscar Trumbull moved to North Wales and assumed the active management of the asbestos textile mill.

Following the war Greene, Tweed's need for asbestos textiles was greatly reduced. The equipment in the textile mill was largely obsolete and it would have required a considerable expenditure to modernize the plant. At the same time the packing business had outgrown the capacity of the Bronx plant. It was therefore decided to phase out the textile mill and move the Bronx operations to the considerably more spacious plant at North Wales. This was accomplished in 1946 and 1947.

When textile operations were discontinued at North Wales, Oscar Trumbull returned to the Asbestos Textile Co. as Plant Manager.

Greene, Tweed is today an important manufacturer of asbestos packings and rubber packings. It all started back in 1899 when Greene, Tweed recognized the need for improving the heat resistance of its cotton and jute packings. The father of the asbestos textile industry, the hard-working steam engine, had once again dictated the requirements.

Don't Forget . . . .

to let us know if you desire reprints of "The History of the Asbestos Textile Industry in the United States," by John A. Bettes, Jr.

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ATI GENERAL MEETING

The Asbestos Textile Institute held its third General Meeting of the year October 7-9 at The Hilton Inn, Williamsburg, Va. The usual working committee meetings were held by the Technical, Air Hygiene & Manufacturing, Asbestos Advisory, Fiber Testing, and Environmental Study Committees. Of specific mention was the progress of the Air Hygiene & Mfg. Committee in preparing the booklet on the "Membrane-Filter Method for Determining Asbestos Dust Concentration in Working Areas." The publication should be available in the near future.

Paul E. Leclerc, Regional Sales Manager, Asbestos Corporation Ltd., reported on the world market for asbestos fiber, stating that overall demand is good.

G. Ellwood Houghton received a plaque from President E. A. Schuman in recognition of his valuable contributions to the Asbestos Industry and to the work of ATI. Mr. and Mrs. Houghton received a standing ovation from the membership and were wished many years of happiness! "Ellie" Houghton was Senior Engineer with Garlock Inc. until his recent retirement.

The following officers were elected by the Board of Governors to serve the Institute for the ensuing year: President, Lawrence E. Moody, Works Manager for the Charlotte Works, Thermoid Division, H. K. Porter Co., Inc.; Vice President, Milton Q. Scowcroft, Sales Manager, Raybestos-Manhattan, Inc.; Treasurer, Alexander Kuzmuk, President of the Mechanical Rubber Division, Garlock Inc.; and Executive Secretary and Assistant Treasurer, H. E. Sunbury. The newly-appointed Chairman of the Asbestos Advisory Committee is Edward A. Morris, Marketing Manager-Asbeston, Uniroyal, Inc.

Guest of Honor at the General Meeting was Mrs. D. M. Fagan, Editor of ASBESTOS Magazine. While addressing the members, Mrs. Fagan expressed her great pleasure at the opportunity to attend the meeting and thanked the members for their subscription and advertising support over the years. Since ASBESTOS is anxious to have all items of general interest to the Asbestos Industry, she requested the magazine be placed on all mailing lists to receive publicity releases from the member companies. She also suggested the

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Resists Abrasion: Bauer's versatile Hurricane Pulverizer-Classifier is now available with a new optional feature . . . a 2" thick, high strength, high density Coors alumina ceramic lining. This exclusive Bauer lining far outlasts high alloy metals . . . is especially recommended when processing abrasive chemicals or minerals. It is your protection against downtime and inferior product quality.

Improves Brightness: The full ceramic lining in the Hurricane guards your product against iron contamination and discoloration during the simultaneous grinding-classification operation. It assures the ultimate in product quality and brightness level.

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BAUER

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Industry take advantage of the storehouse of information ASBESTOS has available—in its editorial and advertising pages and in its library and reference files.

ATI presented a clock to Mr. Schuman, Product Manager for Asbestos Textiles, Sheets and Cut Gaskets, Johns-Manville Corporation, in acknowledgment of his fine leadership as President of the Institute for the past two years. Upon accepting the gift, "Ed" Schuman expressed his deep appreciation and his conviction that ATI, now in its 26th year, will continue to supply an indispensable service to the asbestos textile industry.

[**Editor's Note:** I would like to publicly thank the members of the Asbestos Textile Institute for the many courtesies extended to me during my visit to the ATI General Meeting. It was a genuine pleasure to talk with so many of the gentlemen who are actively engaged in the asbestos textile end of the Industry and I sincerely appreciated the opportunity to discuss ways in which the magazine can be of greater service.]

G. ELLWOOD HOUGHTON—RETIRES

After 43 years of continuous association with the asbestos textile industry, Mr. G. Ellwood Houghton retired from Garlock Inc. effective November 1, 1970.

Upon graduation from the Philadelphia Textile School in 1927, Mr. Houghton joined Johns-Manville Corporation and served in several line and staff production operations.

From 1939 to 1959 he was Superintendent of Garlock's Asbestos Textile Department and in 1959 he was promoted to Product Engineer in the Departments of Manufacturing Engineering and Research and Development.

Mr. Houghton is responsible for many major innovations in machinery for the manufacture of new or improved products. He has been awarded several product patents and has others pending.

We wish Mr. Houghton many years of good health and happiness.

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Asbestos in the Arctic.

When the SS *Manhattan* explored a year 'round tanker route to the Alaskan North Slope oil fields, asbestos was aboard.

Asbestos fibers added increased strength and fire-safety to J-M Metal-On® (aluminum jacketed calcium silicate pipe insulation) used to protect the ship's external deck piping.

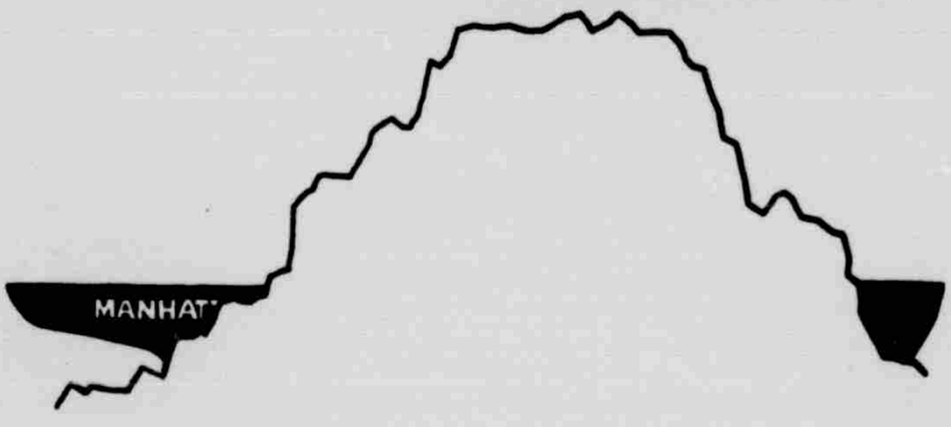
The excellent insulating characteristics of this asbestos-bonded insulation kept liquids flowing in the minus 50°F Arctic temperatures.

Chemically stable and resistant to water damage, asbestos will neither burn nor rot. And it easily withstands severe atmospheric changes.

J-M asbestos insulation is at work helping to solve many kinds of temperature control problems. Hot and cold.

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"NICOLON"—ASBESTOS YARN

Nicotex, Inc., subsidiary of Nicolet Industries, Inc., Ambler, Pennsylvania, is now producing *Nicolon,* an asbestos yarn that virtually eliminates the dust problems encountered in weaving, knitting or braiding asbestos. It is made by a patented process in which the asbestos fiber is opened chemically and formed into yarn by chemical and mechanical treatment. No carrier fibers are used.

Compared to asbestos yarns manufactured by conventional mechanical processing, Nicolon possesses higher breaking strength, improved elongation, lower density, superior smoothness and better heat and moisture resistance. The weavability, whiteness and moisture resistance of the yarn are improved by adding 1-2% of a chemical finish.

Nicolon is made in sizes as fine as 150 cut, as well as in the standard coarse yarn sizes. Since the yarn content is 100% asbestos, maximum resistance is achieved against heat, chemicals, flame and rot.

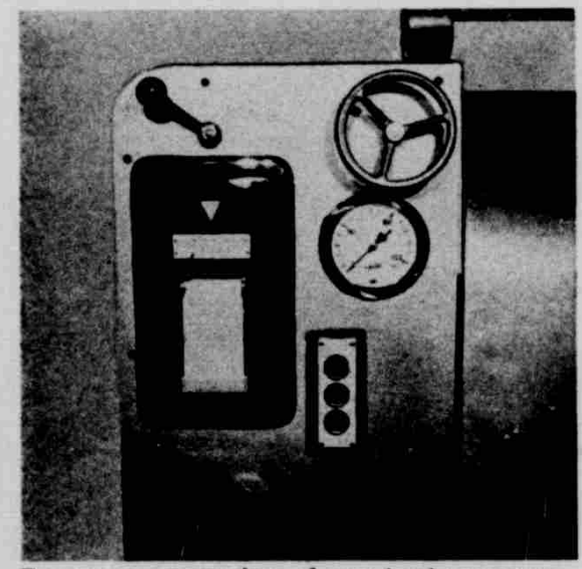
The important end uses for Nicolon include mechanical packings, insulating tapes, brake linings, dryer felts, braided and woven tubing, filter cloth, pressing pads and fire-resistant clothing.

Manufacturers of braided packings are using Nicolon in combination with graphite. The asbestos yarn is chemically opened to encapsulate 40% graphite by weight. The asbestos/graphite packings are virtually unaffected by chemical attack and they resist temperatures of steam up to 1200°F and temperatures to 1000°F in other applications.

STANDCO INDUSTRIES, INC., Houston, Texas, has expanded its line of molded clutch facings for use in heavy equipment and machinery. Heavy-duty gear tooth clutch facings are manufactured in O.D. sizes from 6″ to 44″. According to Standco, its molded clutch facings are available with either a high or a low coefficient of friction.

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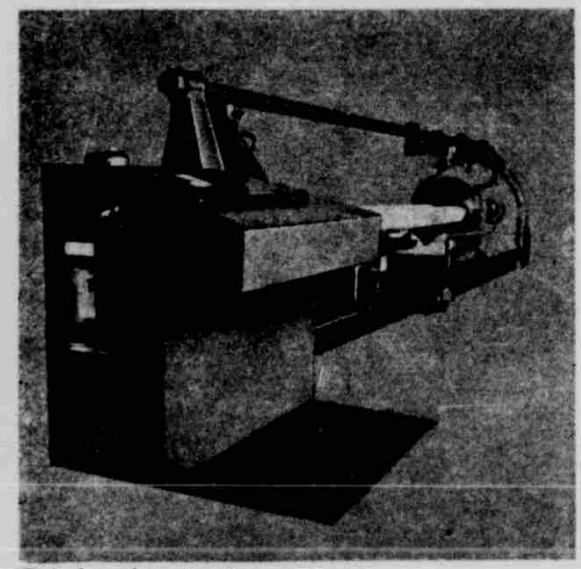
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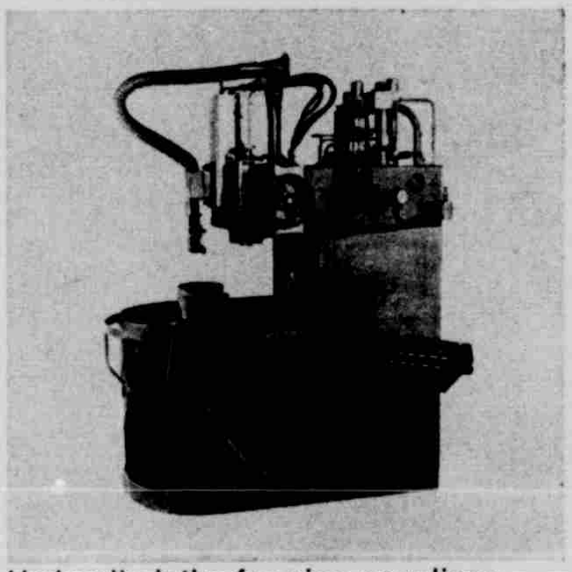
Pressure recorder of our test presses



Bursting test press for pipes



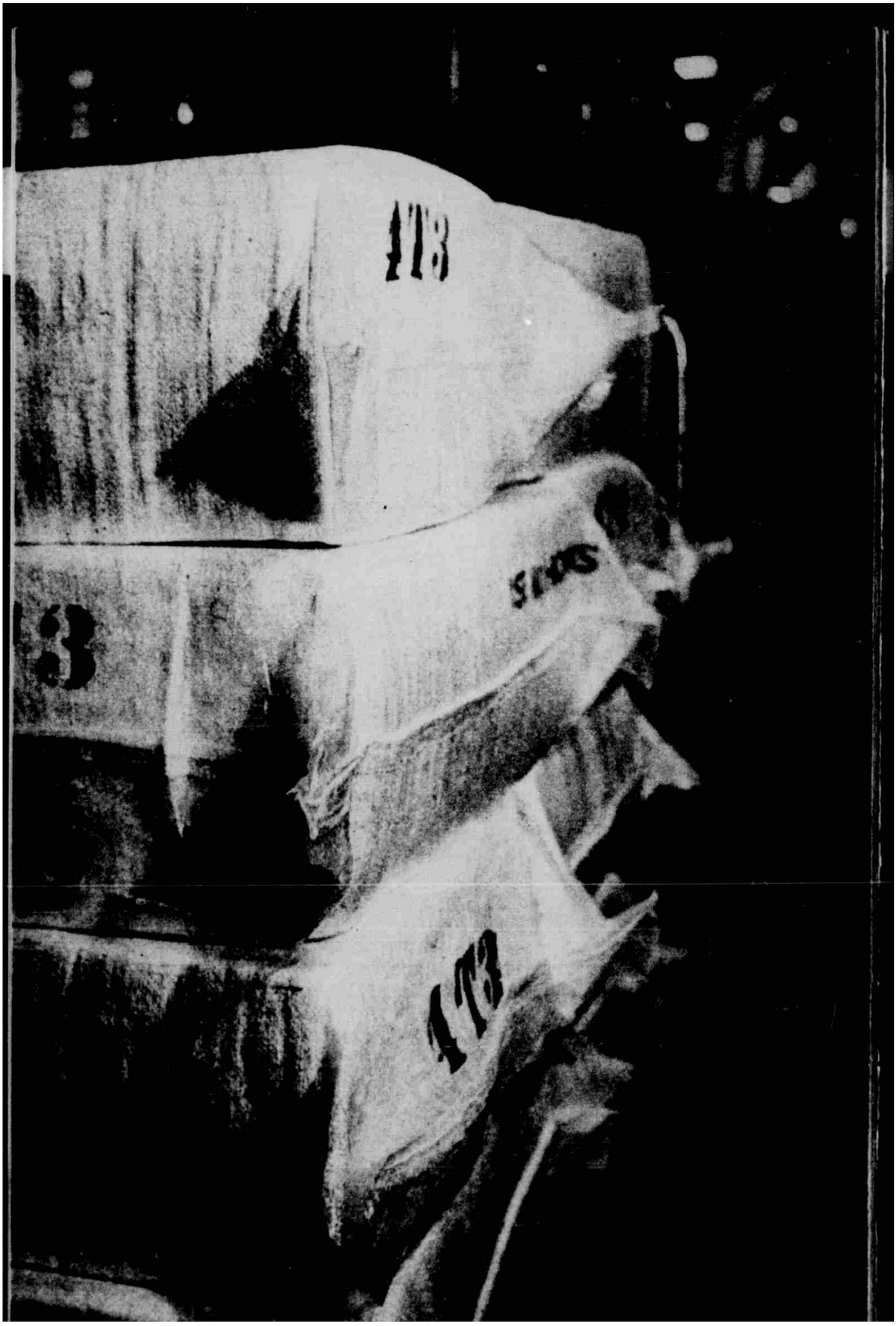
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'Fabrene' protects asbestos best. So make it your bag.

You know those bright-looking reinforced plastic bags you've been seeing lately? They're made of 'Fabrene'. From Du Pont of Canada. And when it comes to packaging and protecting your products, coated 'Fabrene' bags are the best you can get. Because of their extraordinary strength. And they also happen to be rot-proof and resistant to chemicals! 'Fabrene' has these qualities – and many others, too – because it's woven plastic with film which is extruded on top of the base weave. So the weave is locked in place and really protects the contents. We know that seeing is believing. But trial is even more convincing. So next time you order asbestos, ask your supplier to send it to you bagged in coated 'Fabrene' oriented polyolefin material. It's for the best.

'FABRENE'
ORIENTED POLYOLEFIN MATERIAL

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SPECIALIZED PROMOTION

The following is the third in our series of "Specialized Promotion" articles, established to give *you* an opportunity to relate special efforts taken to promote specific asbestos-based products or lines of products, or particular processes.

We would welcome, from any of our readers, other stories of this nature. All of you at one time or another have entered into projects or campaigns to inform the consumer of a new product or technique or to increase the demand for an already-established material or service.

We earnestly solicit your participation. Take advantage of this chance to relate what you had hoped to achieve with a particular endeavor; what media or methods utilized to reach a certain market; and the effectiveness of the promotional effort.

We look forward to all of our readers taking part—and keeping the Asbestos Industry alert to what has been and is being accomplished, and how these accomplishments have contributed toward the progress and growth of our Industry.

J-M Products In The "Design 1970" House

(The materials printed in italics are asbestos products.)

On two weekends during last May, the all-electric "Design '70" House, in Jamestown, North Carolina, was opened for public inspection.

It was built as part of the National Lumber and Building Material Dealers Association's "Design '70" Program to demonstrate the findings of the Association's Research Council on homeowner needs and preferences in the coming decade. The house was designed by John Bloodgood, formerly Architectural Editor of "Better Homes & Gardens," and co-sponsored by Reed Supply Company, Thomasville, North Carolina, and Johns-Manville Corporation.

J-M supplied many of the products used in the home. Some were newly-developed materials and others were products that had already earned their place in customer preference over the years.

For example, the home was a showcase for *Stonehenge,* a panel resembling "cultured stone." It has the look of slate but does not have the structural weaknesses of natural stone. It was used in the "Design '70" House as an exterior accent panel near the front door.

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Wallace & Gale Co.
115-119 So. Gay St.

BUFFALO, N.Y. 14210
Meyers Chemicals Inc.
290 Larkin St.

CHICAGO, ILL. 60645
Donald R. Fitzgerald Co.
5875 N. Lincoln Ave.

CINCINNATI, OHIO 45203
C. L. Zimmerman Co.
N 303 Cincinnati Union Terminal

CLEVELAND, OHIO 44102
Chem-Materials Co., Inc.
6400 Herman Avenue

DETROIT, MICH. 48219
Gerald J. Fahey
16772 Plainview Road

FORT WORTH, TEXAS 76106
Lehman-Phillips, Inc.
2550 Glendale Ave.

HAYWARD, CAL. 94544
Central Solvents & Chemicals Co.
31702 Hayman St.

KENT, WASH. 98031
Central Solvents & Chemicals Co.
7601 South 190th St.

NEW ORLEANS, LA. 70126
D. F. Condon Co.
Box 26012
Chef Menteur Station

NEW YORK, N.Y. 10007
Whittaker, Clark & Daniels, Inc.
100 Church St.

PHILADELPHIA, PA. 19140
Charles A. Wagner Co. Inc.
4455 N. 6th St.

PORTLAND, ORE. 97302
Central Solvents & Chemicals Co.
10821 North Lombard St.

ST. PAUL, MINN. 55114
MacArthur Co.
936 Raymond Ave.

SALT LAKE CITY, UTAH 84110
Central Solvents & Chemicals Co.
407 West 17th South St.

SANTA FE SPRINGS, CAL. 90670
Central Solvents & Chemicals Co.
13900 Carmenita Road

SPOKANE, WASH. 99206
Central Solvents & Chemicals Co.
6308 East Sharp Avenue

58-68

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Other exterior products used were *Togany* sidewalls, used in combination with board-and-batten construction and brick, and J-M's *American Colonial* roof shingles. These are mineral-based products but have the look of wood. They each have a Class "S" rating, the highest fire rating granted by Underwriters' Laboratories. The board-and-batten siding appeared as an accent on the two front wings of the house and utilized J-M's *Flexboard,* an asbestos-cement sheet.

Micro-Aire duct, another J-M product, was used in conjunction with the central air-conditioning and heating system. The duct provides, in one unit, the four basic requirements of modern air-handling systems—air distribution, thermal insulation, sound absorption and a vapor-air barrier.

The house was insulated with J-M's Snap-Pak fiber glass building insulation, a new product just introduced to the public within the past year. The foil-faced insulation is perforated so it may be torn into convenient lengths thereby saving installation time and it is available in elliptical packages thus salvaging storage space and allowing ease in handling.

J-M's line of plastic laminates, Melamite, was used in the kitchen and bathrooms in a variety of colors and patterns.

Profile lay-in ceiling units were one of the most dramatic decorative elements of the home. Used in the family room, the vaulted three-dimensional panels absorbed sound and lent architectural distinction to interiors. They are made of light-weight fiber glass and may be easily lifted out to gain access to hidden ducts and wiring. The same can be said of Whispertone, the flat acoustical panel that was used in the suspended ceiling system in the recreation room on the lower level.

Carpeting from Johns-Manville was also featured in the "Design '70" House. The Beech Creek pattern covered the floors in the living and dining rooms and in three bedrooms. The family room, kitchen and recreation room were the areas selected for Easy Care carpeting.

All in all, the "Design '70" House was a successful venture. Some 4500 visitors toured the 4500 square foot home. They commented, in particular, on the excellent floor plan which, in a basic "H" shape, featured the living area to the left of the front entrance, the sleeping wings on the right and an open deck at the rear that was protected on three sides by the house itself.

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NEWS

FOR
ASBESTOS-CEMENT
MANUFACTURERS

SCAPA sets the standards

by which other felts are judged

The SCAPA range of A.C. felts
—the new development of the '70's—offers.

* RELIABILITY
* REPEATABILITY
* SERVICE

We develop—make—and
sell A.C. felts... that's all!



SCAPA TEXTILES LTD.

IMPROVED BAUER-McNETT FIBER CLASSIFIER

The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc., is now marketing the newly-improved Bauer-McNett Fiber Classifier. The Classifier is designed for wet classification of organic and inorganic fibers and is capable of separating any sample of fiber into a number of smaller groups, each containing fibers of approximately the same length.

In the Asbestos Industry the Bauer-McNett Wet Classification Test for Asbestos Fiber has been used for many years and provides a very accurate method for determining the length distribution and fines content of the various Grades of milled asbestos fiber. Standard procedures for such tests have been established by the Quebec Asbestos Mining Association and are described in "Testing Procedures for Chrysotile Asbestos Fibre (Second Edition, 1966)" and, quite recently, "ASTM Method D2589 for Bauer-McNett Classification of Asbestos Fiber" has been adopted giving official sanction of the American Society for Testing and Materials to this test method for asbestos fiber.

Recent Improvements

Each of the unit's individual classification tanks is now equipped with its own agitator drive, thus assuring constant agitator speed. The tanks are of one-piece, molded polyurethane construction and are lightly colored to facilitate fiber identification. Pneumatically-sealed screens are easy to remove and the heavier weight screen construction reduces the possibilities of warping as well as providing longer service life.

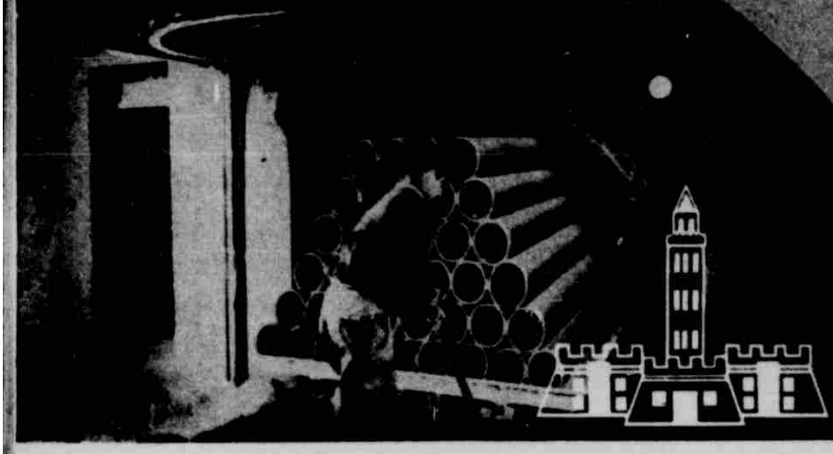
The frame consists of steel tubing welded into a single sturdy unit. An anti-splash cover is now standard on the constant-level tank. A deeper drain pan is also provided on the new model.

Optional equipment available include vacuum sample cups, automatic control consisting of solenoid valves operated by electrical timers, and a new tank overflow alarm.

For additional information or a copy of Bulletin P-8-C describing the Classifier, contact The Bauer Bros. Co., Springfield, Ohio 45501, and Brantford, Ontario, Canada.

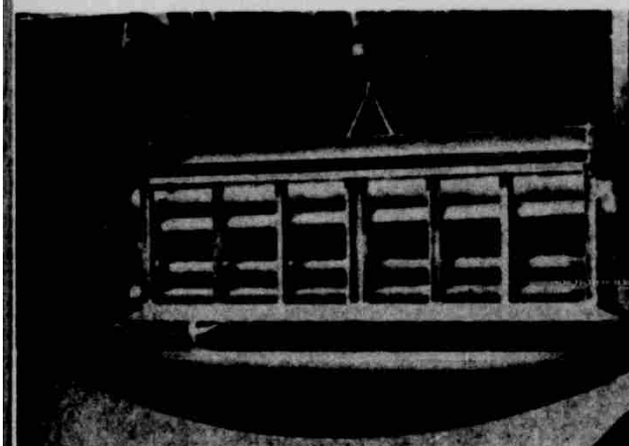
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES



AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

ASBESTOS CEMENT ENGINEERING CO.



MODERN PLANTS FOR MAKING ASBESTOS CEMENT CORRUGATED AND FLAT SHEETS



Plants projected, delivered and started.
Agents required.
Ask for Modern Catalogues.

AUTOMATIC CORRUGATING AND STAPLING MACHINES

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VADUZ – LIECHTENSTEIN
(SWITZERLAND)
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CABLES: ASBESTENGINEER VADUZ
TELEX: 57871 Treuhand AG



TIAC NATIONAL CONVENTION

The 8th National Convention and Annual Meeting of the Thermal Insulation Association of Canada was held in New Brunswick in September and the following officers were elected for the year 1970-71: President, A. D. Guildford of Guildfords Ltd.; Vice President, I. Kaplan of Kaplan Insulations Ltd.; and Secretary-Treasurer, J. N. Steel of Hilton Insulation & Supply Ltd. The newly-elected Directors are W. L. Berestovy, R. S. Beveridge, J. Dansereau, J. Findlay, W. Heggie, N. Kulikowski, R. D. Lewis and C. Y. Thompson.

Mr. D. Merlin Nunn, Q.C., Industrial Relations Advisor to the Construction Association of Nova Scotia, spoke on the subject of "Understanding Construction Labor Relations."

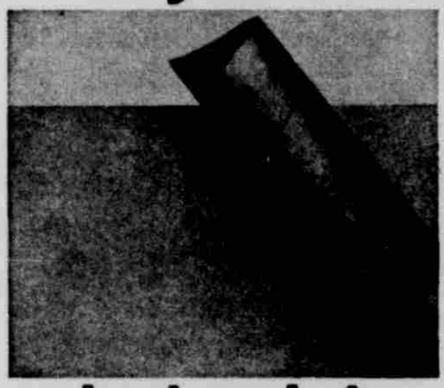
"The 70's and How They May Affect Our Industry" was the title of an address presented by Mr. Mark Stein, Immediate Past President of the Canadian Construction Association. Mr. Stein advised that in the years between 1970 and 2000 the world's population will double and the construction industry will have to meet this rapid growth with sufficient residential, commercial, industrial and institutional buildings. Infinitely more important, said Mr. Stein, is that it will be essential to combat the pollutants contained in human and industrial wastes.

Separate Seminars were held for the various membership sections, i.e., Contractors, Suppliers and Manufacturers. Mr. Theodore Brodie, President of the National Insulation Contractors Association, addressed the Contractors Seminar on the recent developments in NICA's endeavors to coordinate upon industry training through indentured apprenticeship plans, environmental controls and management programs in areas of joint trusteeships of national funds for these purposes.

Mr. W. E. Hodgson, Manager of Industrial Insulations for the Products Division of Canadian Johns-Manville Co. Ltd., was appointed by TIAC's Manufacturers Section to Chair a Committee to study Environmental Control and to work with other groups in Canada and the United States toward the development of a program for future action by all sections of the industry.

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If you use asbestos for





sheet gaskets **brake linings**

or just about any other product, we have the fibre grade you need. You can specify from 43 different grades, so you're sure of getting fibres of the correct length and with the proper degree of openness for your products.

Lake Asbestos fibre is supplied in pressure-packed bags which are easy to handle . . . occupy little storage space . . . save on shipping costs. For more information or test samples, write to: Asarco International Corporation, P.O. Box 608, Black Lake, Quebec, Canada—distributors for Lake Asbestos of Quebec, Ltd.

SALES AGENTS

ARGENTINA, Buenos Aires
"Insud" Cia. Sudamericana
de Industria y Comercio S.A.

BRAZIL, Rio de Janeiro
Sao Paulo "Brasimet" Comercio
e Industria S.A.

CALIFORNIA, Los Angeles
E. B. Taylor Company

CANADA, Montreal
Federated Metals Canada, Ltd.

CANADA, Toronto
Federated Metals Canada, Ltd.

COLOMBIA, Bogota
Holanda, Colombia, S.A.

ILLINOIS, Chicago
Jensen-Souders and Assoc., Inc.

MASSACHUSETTS, Allston
D. H. Litter & Co., Inc.

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

NEW YORK, New York
D. H. Litter & Co., Inc.

OHIO, Cleveland
A. C. Mueller Co., Inc.

PENNSYLVANIA, Conshohocken
Van Horn, Metz & Co., Inc.

LAKE ASBESTOS

ASARCO

ASARCO INTERNATIONAL CORPORATION
a subsidiary of American Smelting and Refining Company

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NEW "ASBESTOS RULE" IN QUEENSLAND

Queensland will be the first State in Australia to introduce a Rule controlling work with asbestos, according to a press statement issued July 9, 1970, by The Honourable John Herbert, Minister for Labour and Tourism. The purpose of "The Asbestos Rule," which will take effect from July 11, 1971, is to prevent the occupational disease known as "asbestosis." The Rule provides that measures must be taken to eliminate all asbestos dust within working areas where asbestos is used in any form. It applies to every process involving asbestos, any article comprised wholly or partly of asbestos, any article that has contained or has been contaminated by asbestos, and any work involving the use or handling of asbestos, except a process or work in connection with which asbestos dust cannot be given off. The requirements include the installation of exhaust ventilation, the use of protective screening to isolate a work area, and the wearing of protective clothing and respiratory equipment. The penalties for non-compliance can be up to $100.00 for the first offense and up to $200.00 for a second offense.

According to Mr. Herbert, the Rule is based to a large extent on recent United Kingdom Factory Regulations but it is more extensive in that it applies not only to factories but also to construction sites and to other places where asbestos is being used. It was unanimously recommended by the Factories and Shops Health Welfare and Safety Board and the promulgation of it was supported by the Building Construction Industry Safety Council. Both of these bodies had representatives of employer organizations and trade unions.

H. K. PORTER COMPANY, INC. will close most of the manufacturing operations at its *Riverside Works, Fabricated Metals Division,* Riverside, New Jersey. While certain processing operations will continue, it is contemplated that approximately 90% of the current employees will be terminated by the end of this year.

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Important Reduction of Maintenance with new

HAZEMAG Impactor



K-Type Crusher capacities ranging from 20 to 350 tph.

Hazemag m.b.H.
Muenster IW
West Germany

HAZEMAG

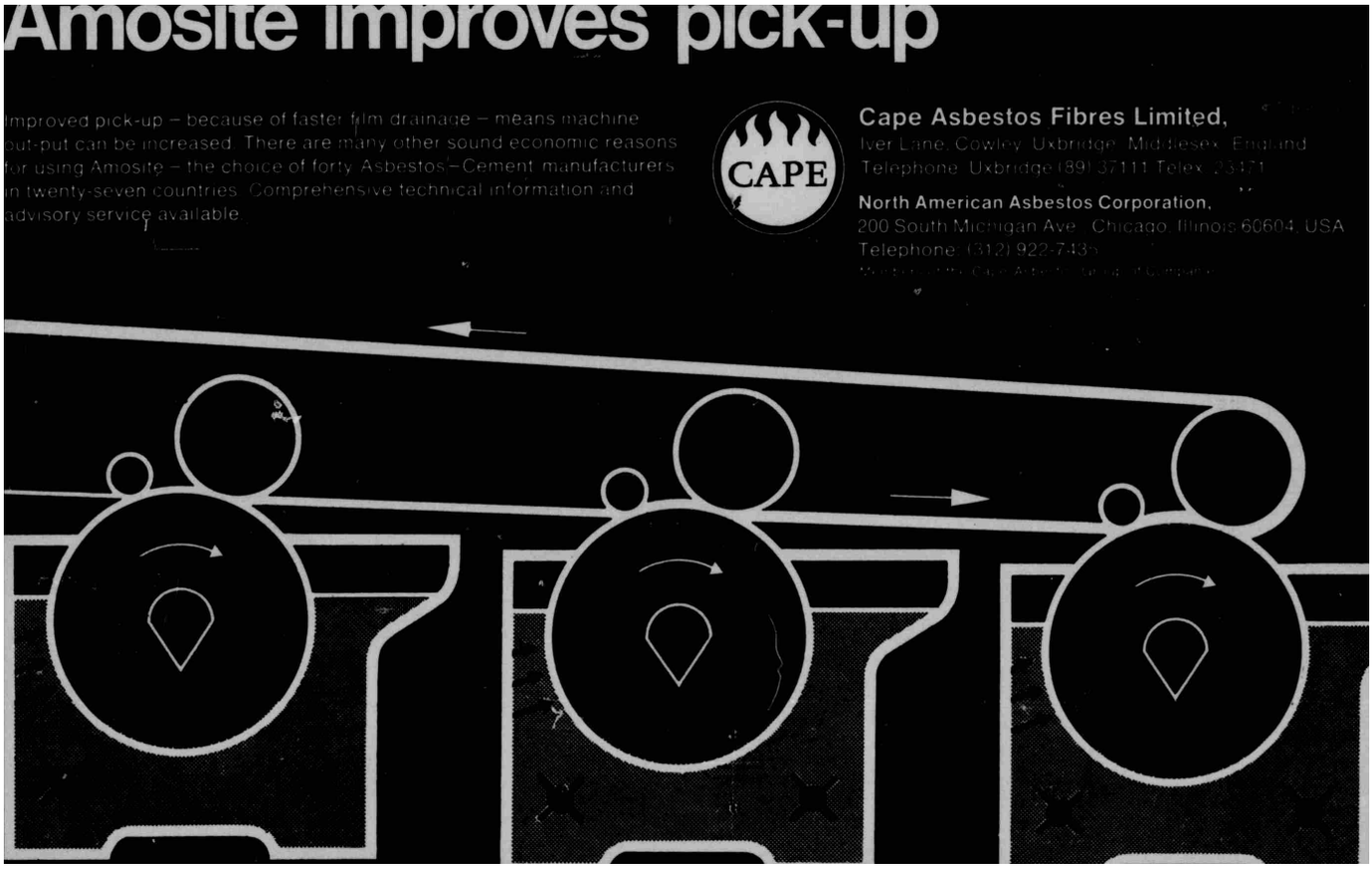
Hazemag USA Inc.
P. O. Box 1064
Uniontown, Pa. 15401

Noyes Bros. Pty. Ltd.
Sydney,
Australia

Hazemag (Canada) Ltd.
98 Columbus Street
Pointe Claire, P.Q.

Industrial Machinery
Supplies (Pty.) Ltd.
Johannesburg, So. Africa

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Amosite improves pick-up
Improved pick-up – because of faster film drainage – means machine out-put can be increased. There are many other sound economic reasons for using Amosite – the choice of forty Asbestos-Cement manufacturers in twenty-seven countries. Comprehensive technical information and advisory service available.
CAPE
Cape Asbestos Fibres Limited,
Iver Lane, Cowley, Uxbridge, Middlesex, England
Telephone: Uxbridge (89) 37111 Telex: 23171
North American Asbestos Corporation,
200 South Michigan Ave., Chicago, Illinois 60604, USA
Telephone: (312) 922-7435

NORDBERG/REX CHAINBELT MERGER APPROVED

In special meetings held in Milwaukee, Wisconsin, the shareholders of Rex Chainbelt Inc. and Nordberg Manufacturing Company voted to approve the merger of the two companies. Nordberg will operate as a Division of Rex.

Officials of the two firms stated that the combined effort of both companies in the areas of technology, manufacturing and marketing will increase their diversified product lines and will result in better service to customers.

Rex Chainbelt operates 22 divisions in 35 plant locations in the United States and Canada and has either total or partial ownership of 18 overseas manufacturing affiliates. Rex is a leading manufacturer of automated unit and package handling systems, fluid power products, municipal and industrial water pollution control systems, engineered bulk material handling systems, construction machinery, aerospace and industrial fasteners and mechanical power drives and conveyor components.

Nordberg has plants in Milwaukee and Clintonville, Wisconsin, and in Toronto, Canada, as well as extensive foreign operations. A leading manufacturer of mineral and rock crushing equipment, screens, grinding mill and mine hoists, the firm also makes heavy-duty diesels and gas turbines, railroad track maintenance machinery, hydraulic valves, presses and components.

MOTOR VEHICLE FACTORY SALES

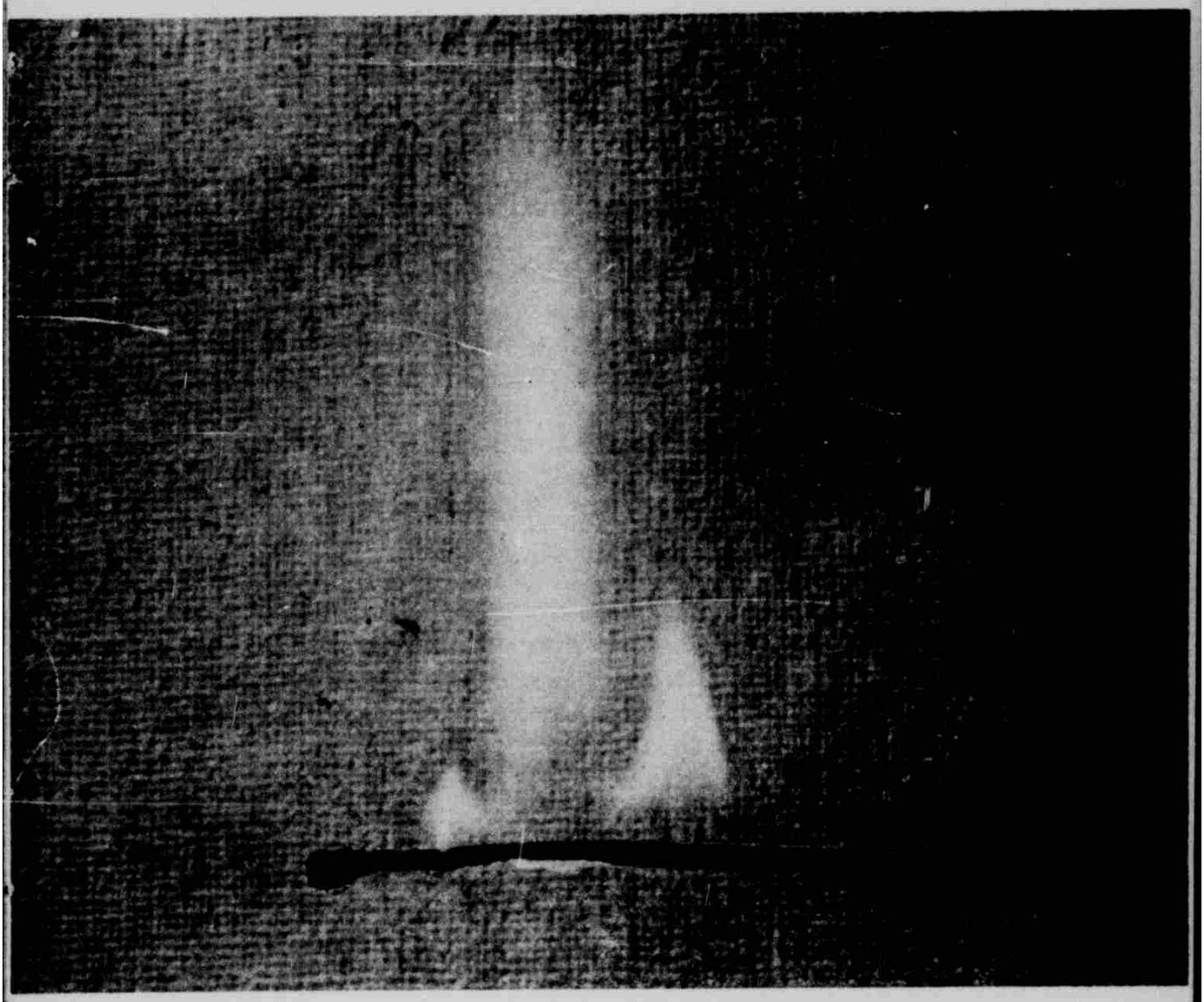
AUGUST 1970 motor vehicle factory sales from plants in the *United States* totaled 413,385 (passenger cars—272,362; trucks and buses—141,023). The cumulative total for the *First Eight Months of 1970* was 5,914,756 compared with 6,543,072 for the same period last year.

Motor vehicle factory sales from plants in *Canada* totaled 46,087 for *AUGUST 1970* compared to 61,739 in August 1969. The cumulative total for the *First Eight Months of 1970* was 839,915 against 835,803 for the like period in 1969.

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UNIROYAL

Asbeston protects naturally or unnaturally.



Naturally; since we combine asbestos with other natural fibers. And unnaturally; since we also can combine asbestos with man-made fibers including glass, acrylic, polyester and nylon.

As yarn or fabric, Asbeston® comes in the widest variety of weights and sizes for every application. For details, write to Uniroyal Fiber and Textile, 350 Columbia Road, Winnsboro, South Carolina 29180.

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MARKET CONDITIONS

General Business.

While there are some signs that the economic upturn, so widely predicted for the second half of this year, has actually begun, the improvement thus far has been so slight as to be barely noticeable and figures for September indicate that continuing price increases are responsible for most of the improvement in gross national product. Despite sluggish business and rising unemployment, inflation is still with us. The General Motors strike continues and there are no signs of an early settlement. Full effects of the strike are now being felt by major and minor suppliers to GM, forcing cut-backs in production and lay-offs of shop workers and office personnel.

With few exceptions, third quarter earnings reports of corporations indicate a severe squeeze on profits even though a fair number of companies show little or no change in sales volume. The aerospace companies have been particularly hard-hit by the slump in that industry and conditions show no signs of near-term improvement. As businesses in general are going through a "belt-tightening" process they are cutting down on expenses in every possible direction. Many of the problems of the airlines can be traced to a substantial reduction in travel by businessmen who normally comprise a substantial percentage of airline passengers. Wage cuts or lay-offs of salaried personnel are becoming widespread as industry struggles to reduce overhead.

While there are relatively few cases where managment is "pushing the panic button" there is growing evidence that good managers are taking positive action to insure their companies' abilities to weather a somewhat longer period of contraction in sales and profits than was forecast a year or more ago.

ASBESTOS

welcomes the following new advertiser:

PACIFIC ASBESTOS LIMITED, pages 46-47

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HUXLEY DEVELOPMENT CORPORATION

Suppliers of Raw Asbestos



OVER TWENTY YEARS OF SERVICE
to the
ASBESTOS INDUSTRY



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CABLES: WESTOFF
TELEX: 420195

TIME & LIFE BUILDING
ROCKEFELLER CENTER
NEW YORK, N. Y. 10020

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CONSTRUCTION NEWS

From: McGraw-Hill Information Systems Company

SEPTEMBER 1970 contracts for future construction work were valued at $5,398,471,000, 6% higher than the comparable year-ago month.

Nonresidential Building contracts were valued at $1,943,-997,000, 3% below last September. Contracting offered a mixture of trends with commercial building up, industrial building down and education projects steady.

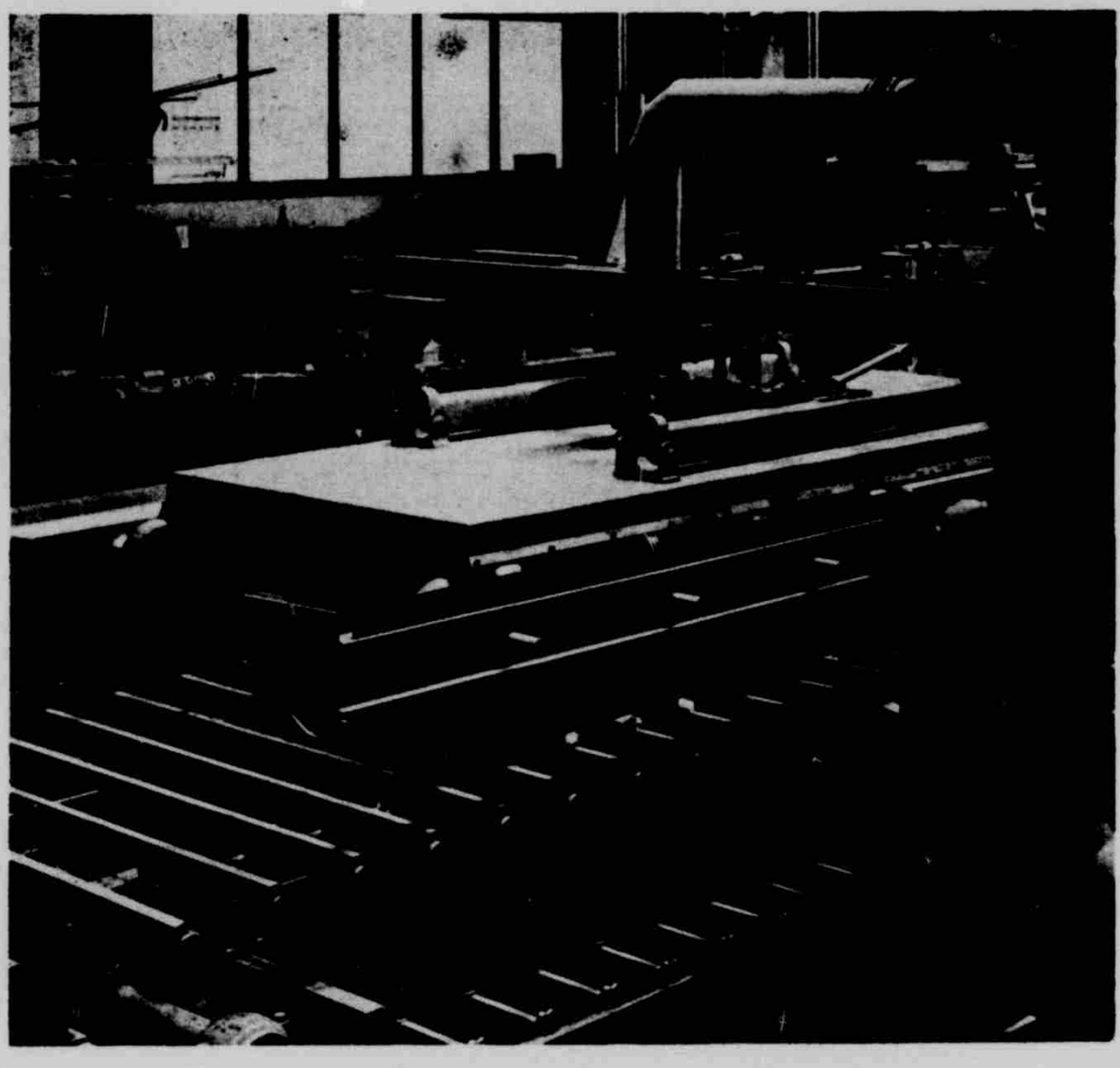
Residential Building contracts were 13% above the year-ago value, totaling $2,176,435,000. Both one-family homes and apartments participated in the gain.

Nonbuilding Construction contract value advanced 10%, to $1,278,039,000. A large increase in electric utility projects overbalanced a small advance in highway contracting.

FIRST NINE MONTHS OF 1970—At the end of the third quarter 1970's total to date was $52,057,985,000 and held a narrow lead of 1% over the same period in 1969. The cumulative total of nonresidential building contract value was $19,182,761,000 at the end of nine months, 2% below the same 1969 period. Residential building contract value, at $18,340,016,000, trailed last year's total by 6%. Nonbuilding construction contracts reached $14,535,208,000, up 15% from the like period last year. Duing the months immediately ahead, construction markets will be showing further improvement in housing and continued sluggishness in nonresidential contracting. These opposing trends will hold the Dodge Index in the vicinity of 190 for a while.

THE 1971 CONSTRUCTION OUTLOOK reports that nationwide construction will advance nearly 10% in 1971, to $74.35 billion, with housing in the lead by a wide margin. The seasonally-adjusted Dodge Index (1957-59= 100) of future construction contract values is expected to climb to 209. Although a temporary sag in business capital spending is expected in 1971, it will be more than offset by consumer spending and the pent-up demand for housing. Copies of the entire report are available from the F. W. Dodge Division, 330 West 42nd Street, New York, New York 10036.

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SM 1010

NOBODY LIKES

coarse manners or rough handling.

Neither do the steel moulds.

Come along with us the gentle way and use our lowering device.

Your steel moulds will be grateful to you!

J.M.VOITH A.G.
ST. POELTEN-AUSTRIA

POB 168 TELEX 015 510 CABLE VOITHWERKE

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J.M.VOITH A.G.
ST. POELTEN-AUSTRIA

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THIS & THAT

EUCLID, INC., Cleveland, Ohio, a subsidiary of White Motor Corporation, has added a sixth vehicle to its line of rear-dump haulers. The new 75-ton version, designated the R-75, is suitable for application at open-pit mines and in general contracting. The floor, front, sides and integral cab guard plate are constructed of high strength alloy rated at 100,000 p.s.i. The cab of the R-75 has standard operator comfort features including safety glass throughout and a 5° forward-slanted windshield tinted to reduce glare. It is fully insulated for sound and temperature control and has six adjustable ventilators.

With the addition of the new hauler, Euclid now has vehicles available with capacities ranging from 13 tons to 105 tons. The company also has under development a huge 210-ton-capacity, turbine-powered hauler designed primarily for open pit mining.

INSULATION HYGIENE PROGRESS REPORT, Fall 1970, has recently been published, reporting further progress in various phases of the IIHRP (Insulation Industry Hygiene Research Program). Among items of particular interest is the announcement of the development of disposable respirators which are not only effective but also acceptable to insulation workers in the field. Such respirators will soon be readily available for use in the trade. It is also reported that, starting in September, Johns-Manville Corporation is marketing its line of asbestos cement in plastic bags which will permit the addition of water and mixing of the cement inside the bag. During June, the Mount Sinai School of Medicine presented a four-day course on all aspects of the health effects of asbestos. Forty-three physicians and scientists from the United States and six other countries attended the course which constituted an historic first in occupational medicine.

ASBESTOS will be pleased to handle requests for this and future reports.

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CRUSHERS HEWITT-ROBINS has been published, as Catalog 3100-A, by the *Hewitt-Robins Bulk Handling Equipment Division of Litton Industries*. It describes the Division's line of jaw, impact, roll and hammermill crushers, including portable crushing plants and conveyor systems. Also provided in the publication are application data, illustrations and cutaway drawings of features, photographs of typical installations and complete tables on specifications, dimensions, capacities and product analyses.

GENERAL AUTOMATION, INC. defines more than 100 esoteric words coined by the computer industry in its new brochure titled the *"Glossary of Commonly Used Computer Terms."* The brochure covers the word gamut from "access time" to "zero suppression" and definitions provide cross references, synonyms and/or antonyms, and table illustrations where necessary. In defining abbreviations, root words are given in addition to the explanation.

A copy of the Glossary may be obtained free of charge upon request to General Automation, Inc., 706 West Katella Avenue, Orange, California 92667.

H. K. PORTER COMPANY, INC. declared the regular quarterly dividend of $1.375 per share on the 5½% cumulative sinking fund preference stock. The dividend was payable October 30 to stockholders of record October 9.

" Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

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PRODUCTION - IMPORTS - EXPORTS

(Published by Dominion Bureau of Statistics)

Canada—Producers' shipments of asbestos during *July 1970* totaled 164,799 short tons (124,045 tons from Quebec plants and 40,754 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for July 1969 was 126,370 tons.

August 1970 shipments amounted to 140,961 tons (116,107 tons from Quebec and 24,854 tons from Newfoundland, Ontario, British Columbia and the Yukon). The total for the previous August was 139,196 tons.

Canada imported 219,987 square feet of vinyl-asbestos floor and wall tiles, valued at $21,000, during the First Half of 1970. Total imports for the same period in 1969 amounted to 1,134,801 square feet, valued at $69,000.

Exports From Canada

JULY 1970

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	562	33,888	12,922
Eastern Europe	..	30	986	243
Middle East	..	105	2,046	211
Africa	..	..	992	590
Asia	7	236	7,810	9,620
Oceania	..	..	7,583	1,812
So. & Cen. America & Antilles	..	70	9,066	3,840
United States	1	1,529	12,428	33,029
	8	2,532	74,799	62,267

The total amount of unmanufactured asbestos exported in *July 1970* was 139,606 short tons, valued at $21,070,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 194,000
Asbestos-Cement Building Materials	191,000
Asbestos Basic Products, Other	73,000
	$ 458,000

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Exports From U.S.A.

(Figures from U.S. Bureau of the Census) — JULY 1970

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	144	$ 29,349
Non-spinning Fibers	s. tons	1,157	175,651
Waste & Refuse	s. tons	833	90,803
		2,134	$ 295,803
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,067,688	$ 106,342
Other Asbestos-Cement Articles	Lb	1,673,712	215,417
Asbestos Gaskets	Lb	14,845	32,214
Asbestos Packing	Lb	352,925	565,847
Asbestos Heat or Sound Insulation		..	179,073
Asbestos Textiles & Yarns	Lb	1,102,024	292,176
Asbestos Protective Clothing		..	7,543
Mfrs. Other than Friction Materials		..	200,073
Clutch Facings & Linings for Auto. Use	No	96,778	144,188
Clutch Facings & Linings, Other	No	20,824	18,174
Brake Linings for Automotive Use	Lb	446,079	300,712
Asbestos Brake Linings, Other	Lb	328,063	216,615
			$2,278,374



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SOUTH COLUMBIA ST. AND RAILROAD
WOODBURY, NEW JERSEY 08096

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PROGRESS AT ASBESTOS PROPERTIES

Msauli Asbes Limited, Johannesburg, Republic of South Africa, for the financial year ending June 30, 1970, removed 2,042,787 tons of overburden and crushed 415,147 tons of ore to produce 30,181 tons of fiber. The percentage of fiber recovered was 7.27%. Sale of fiber was valued at R2,114,345 and the estimated profit figure was R93,290. Capital expenditure during the twelve-month period reached R1,094,224.

Report from Freeport Sulphur—Freemex, S.A. (wholly-owned subsidiary of Freeport Sulphur Company) and its Mexican partner, Industrias Penoles, S.A., are in the process of conducting laboratory work which will be supplemented by testing of bulk samples from the asbestos-bearing property in southern Mexico. If the tests are successful and a commercial operation proves feasible, the company expects to market the fiber in Mexico and elsewhere.

Thus far, drilling in one of three locations has outlined an estimated 25,000,000 tons of rock which can be mined by open-pit methods. Two other locations show promise. At all three locations, surface geology and outcroppings suggest that substantial additional tonnages exist outside the drilled areas. Further drilling is being done to obtain a more accurate measure of tonnage, quality and grade.

The project is being conducted by Compania Minera Pegaso, S.A., in which Freemex owns 49% interest and Industrias Penoles has 51% interest.

Golden Gate Explorations Ltd., according to a filing statement with the Vancouver Stock Exchange, is seeking the financial backing of a major company to conduct further drilling on its asbestos prospect near Haines Junction, Yukon Territory. It is hoped that an incline shaft will be sunk into a known asbestos zone from which shaft drifting and cross-cutting will be carried out. As stated in a report by P. H. Sevensma, Consulting Engineer, diamond drilling has indicated 3,000,000 tons of commercial Grade asbestos. (The Northern Miner)

High Asbestos Endowment—According to an interesting article entitled "Mineral Endowment of the Canadian Northwest—A Subjective Probability Assessment" that appeared in the September 1970 issue of the CIM Bulletin, ". . . Favorable rocks for the occurrence of asbestos are commonly very small intrusive bodies, some less than a mile long in their largest outcropping dimension. The currently expressed opinion is that the entire belt from the headwaters of the Stikine River (and possibly farther to the southeast) to the Clinton Creek deposit and beyond to recently discovered occurrences in Alaska has a high asbestos endowment. This is supported by the response pattern. This 'central belt,' which comprises about 45,000 square miles, has a forecast asbestos endowment of approximately $50,000 per square mile (value of fiber content in rock)."

Next Issue . . . The Year in Review

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1967 CENSUS OF MANUFACTURES

Report MC67(2)-32E from the U. S. Bureau of the Census includes statistics concerning **Asbestos Products** (SIC Code 3292) and **Gaskets and Insulations** (SIC Code 3293).

The Industry under SIC 3292 comprises establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials, and other commodities composed wholly or chiefly of asbestos. It does not cover asbestos paper, steam and other packing, pipe and boiler covering and gaskets. The value of shipments and other receipts of the Asbestos Products Industry in 1967 totaled $575 million, including shipments of primary asbestos products valued at $506.6 million, shipments of other (secondary) products valued at $36.8 million, and miscellaneous receipts, mainly resales, of $31.6 million. Shipments of primary products represented 93% (specialization ratio) of its total product shipments (both primary and secondary). Shipments of primary products represented 90% (coverage ratio) of these products valued at $564.6 million shipped by all industries ($144.4 million for asbestos friction materials, $24.0 million for asbestos-cement shingles and clapboard, $25.0 million for asphalt floor tile, $153.5 million for vinyl-asbestos floor tile, $214.1 million for asbestos textiles and other asbestos and asbestos-cement products, and $3.6 million for other asbestos products). In 1967 there was a total of 138 establishments and 21,300 employees with a payroll of $144,000,000. Value added by manufacture totaled $308,100,000, cost of materials amounted to $263,900,000 and capital expenditures (new) reached $18,900,000. Manufacturers' inventories at the close of 1967 were valued at $111,000,000.

The Industry under SIC 3293 comprises establishments primarily engaged in the manufacture of packing for steam, water and other pipe joints, packing for engines, air compressors, etc., insulating materials for covering boilers and pipes, and gaskets. Value of shipments and other receipts of the Gaskets and Insulation Industry in 1967 totaled $352.8 million. Shipments of gaskets and insulations (primary products) represented 82% (specialization ratio) of its total product shipments (primary and secondary) and represented 81% (coverage ratio) of these products valued at $340.5 million shipped by all industries. There were 301 establishments reported in 1967 with a total of 18,500 employees and a payroll of $115,300,000. Value added by manufacture totaled $205,500,000, cost of materials reached $150,200,000, and capital expenditures (new) amounted to $9,200,000. Manufacturers' inventories at year end totaled $54,200,000.

Further breakdown data and additional information are given in "Report No. MC67(2)-32E—Abrasive, Asbestos, and Miscellaneous Non-Metallic Mineral Products," available at 45c a copy from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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NOTES FROM 1969 ANNUAL REPORTS

REPUBLIC OF CYPRUS

The Annual Report of the Senior Mines Officer, Nicosia, Cyprus, for the year 1969 has been issued.

There were 5 permits in force at the close of the year for asbestos prospecting, covering an area of 5 square miles.

Cytechno Co. Ltd.

Cytechno continued its prospecting activities for asbestos. A team of experts from Russia and another from Canada carried out, independently, the first phase of an exploration program.

Cyprus Asbestos Mines Ltd.

No prospecting was done by Cyprus Asbestos Mines as its known ore reserves are estimated to last for many years to come. Operations continued smoothly and there was sufficient unskilled labor available for the company's needs.

During the year 4,452,599 tons of rock were quarried at the Amiandos Mine. Three mills were in operation that treated 1,460,500 tons of raw material and produced 12,033 tons of long Grade fiber and 9,330 tons of short Grade fiber. At year end, 3,093 tons of long Grade and 2,608 tons of short Grade fibers were held in stock. Shipments totaled 22,146 tons, valued at £997,829 and included Grades designated as 3S, HSH, 6F and P50. Major destinations included the countries of the United Kingdom, Denmark, Belgium, Sweden, Austria, West Germany and Ireland.

Expenditure on plant machinery and equipment amounted to £182,816. The estimated total expenditure for the year was £1,060,042 of which £938,889 was spent within the Island. Monthly wages paid by Cyprus Mines averaged £20,234.

The asbestos-cement factory at Moni utilized 191 tons of asbestos to manufacture 29.9 tons of flat sheets, 1180.2 tons of corrugated sheets and 265.0 tons of molded goods. Sales of manufactured goods totaled 1371.4 tons, valued at £52,728.

The Mines Department, in an effort to contribute as much as possible toward the improvement of safety and health in the mining industry, offered a shield to be kept for one year by the company having the best safety record during the year. The shield will remain in circulation for ten years and will finally be kept by the company that has retained it for the greatest number of years. In 1969 Cyprus Asbestos Mines received the shield for the 4th time since the start of the contest nine years ago. The company holding second place is Cyprus Sulphur & Copper Co. Ltd., with three awards. It will be interesting to see which company wins the shield this year as 1970 is the final year in which the shield will be in circulation.

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Pacific Asbestos Limited

Applications are invited for seven senior staff positions for a new mining development in Australia.

Our subsidiary, Chrysotile Corporation of Australia Pty. Ltd. is currently building a mill with production facility scheduled for completion at the end of 1971. Initial production will be 70,000 tons of asbestos fibre annually and will consist mainly of Groups 4, 5, 6 and 7. The property has drill proven ore reserves of 27 million tons and a possible reserve of 90 million tons.

The open-pit mine is located in settled farming country 11 miles from Barraba in New South Wales.

Canadian standard, modern air-conditioned houses are under construction for our staff. The population of Barraba is 1,400 and the community has good amenities that include a golf course, schools, hospitals, churches and pubs.

The area is located 1,500 feet above sea-level and has an average annual rainfall of 27 inches. It has less than 40 nights of frost a year and the mean daytime temperatures are 60° July and 91°F in January. Excellent road and air connections are available to Sydney, a major metropolis of 2½ million people, which is located 350 miles to the south. Tamworth, with a population of 30,000 is an hour away by hard surface road.

Experience in the Canadian asbestos industry or equivalent qualifications are mandatory. These positions are permanent.

MILL SUPERINTENDENT

Required immediately. Reporting to the General Manager, he will be responsible for all aspects of mill operations. Experience during the pre-production phase a definite asset. The successful applicant will be an engineer with several years of supervisory experience in an asbestos mill.

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MECHANICAL SUPERINTENDENT

The Mechanical Superintendent will report to the Chief Engineer and be responsible for all maintenance on the property. He will prepare maintenance schedules and procedures and train personnel. Several years of similar experience in asbestos operations are required.

QUALITY CONTROL SUPERINTENDENT

An engineer is required with experience in the testing and evaluation of asbestos fibre. He will be responsible for instituting methods of quality control and executing the control function. He will report to the General Manager and be responsible for controlling the quality of all production and working with customers.

SALES MANAGER

This position is for a technically oriented person, preferably with experience in asbestos sales in the Pacific area. He will be responsible for the administration of sales under contract, developing new markets and working with customer representatives.

MILL FOREMEN

Three mill foremen are needed to train and supervise Australian operating personnel in the mill. Several years of successful operating experience in asbestos milling is mandatory.

All applications will be kept strictly confidential.

Write:

Pacific Asbestos Limited
Suite 911, 159 Bay Street
Toronto 1, Ontario

ATTENTION: Mr. Ross D. Lawrence

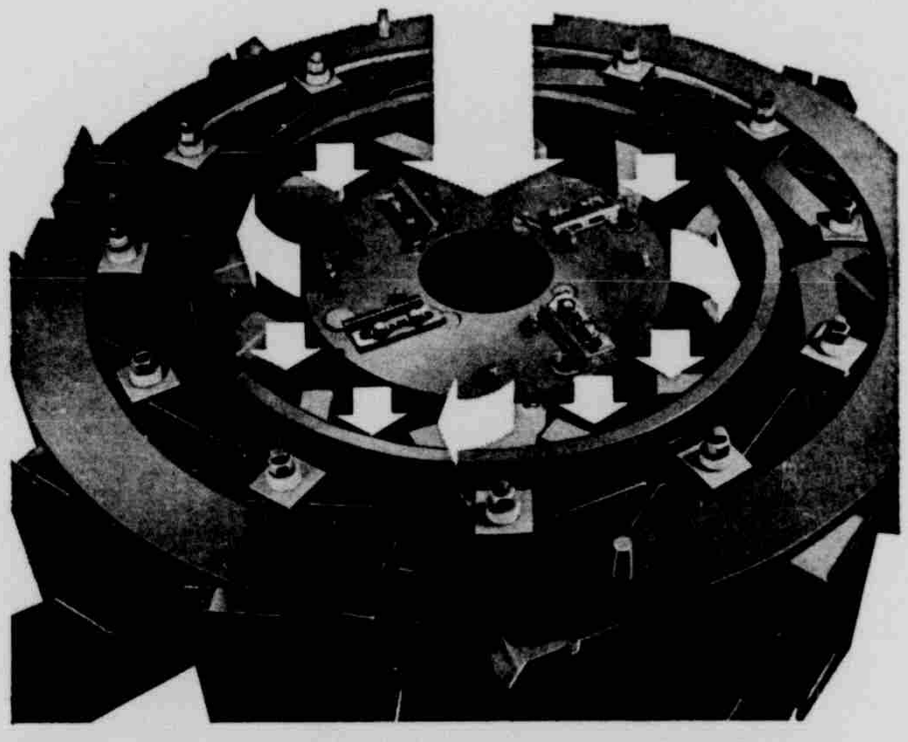
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BIRTHDAY GREETINGS TO . . .

Faustin J. Solon, Jr., Vice President—Advertising & Public Relations, Johns-Manville Corporation, New York City, December 18.
George J. Pecaro, President, The Flintkote Company, White Plains, New York, December 20.
Harry C. Redstone, Executive Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.
Leland M. White, Departmental Vice President—Research, Uniroyal, Inc., New York City, December 21.
Robert L. Clark, Chairman, The Clark Asbestos Company, Cleveland, Ohio, December 22.
James H. Binns, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 23.
A. J. Matlin, Director of Engineering-Panacon, Philip Carey Company, Cincinnati, Ohio, December 23.
Donald G. Hamme, Director of Research, National Gypsum Company, Research Center, Tonawanda, New York, December 24.
John Clarke Dempsey, President, Armor Products, Inc., New York City, December 27.
J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.
M. J. Warnock, Chairman of the Board, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.
F. P. Parkes, Chairman, Small and Parkes Ltd., Hendham Vale Works, Manchester, England, December 29.
Robert G. Lillibridge, Director of Research & Engineering Planning —Panacon, Philip Carey Company, Cincinnati, Ohio, December 31.
John E. Burke, President & General Manager, Sturtevant Mill Company, Dorchester, Massachusetts, January 1.
John L. Cole, Works Superintendent, Wunderlich Ltd., Sydney, Australia, January 1.
C. R. Harris, Project Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, January 1.
Noel W. Hendry, General Sales Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, P.Q., Canada, January 2.
Octave Mousseau, Vice President & Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, P.Q., Canada, January 3.
Lawrence B. Row, Corporate Director of Management Services, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, January 7.
Charles E. Tennesson, Jr., President & Chief Executive Officer, Panacon Corporation, Cincinnati, Ohio, January 8.
Andrew J. Wallner, Director of Traffic, Johns-Manville Corporation, New York City, January 10.
Roger Lewis, Chairman, Asbestos Corporation Ltd., Thetford Mines, P.Q., Canada, January 11.
A. Smith, General Sales Manager-Asbestos, Thermoid Division, H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, January 13.

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

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Simplicity fibrizes longer, cleaner fibres faster with far fewer fines

Simplicity's D'CENTEGRATOR fibrizes so thoroughly, the longer fibres are not "dirtied". The break-up action is pictured above schematically (our asbestos fibrizers actually have 12 bars). On-the-job performance also indicates a higher recovery rate and lower percent of fines. Both lower initial and maintenance cost make this 60 t.p.h. unit (2" cubical feed) an outstanding producer. Write or call about a test.



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CANADIAN PUBLICATIONS

Digest of Environmental Pollution Legislation in Canada has been published by Canadian Industries Ltd. under the auspices of the Canadian Council of Resource Ministers. It replaces "Water Pollution Control, a Digest of Legislation and Regulations in Force in Canada."

Previous reports had dealt only with water pollution legislation but this Digest, updated and expanded by the staff of CIL, represents the first comprehensive compilation of existing legislation in Canada on air, soil and water pollution. The publication was officially released at the Ninth Annual General Meeting of the Council, held in New Brunswick.

The two-volume, 800-page Digest is available, at $10.00, from the Secretariat of CCRM, 620 Dorchester Boulevard West, Room 830, Montreal 101, P.Q., Canada.

Dominion Bureau of Statistics, Ottawa, Canada, has issued, as Catalog No. 26-201, a *General Review of the Mineral Industries (Mines, Quarries and Oil Wells), 1966 and 1967*. Copies are available from the Bureau at 75c each. In 1967, asbestos ranked 7th among the ten leading mineral commodities. The 34 tables in the Review include such data as total production; production by Provinces; tonnage of ore mined and rock quarried (from 1926 through 1967); number of establishments; cost of fuel, electricity, materials and supplies; and salaries and wages.

Products Shipped by Canadian Manufacturers 1967 (Catalog No. 31-211) is also available from DBS at 75c per copy. The quantity of asbestos-cement boards and sheets shipped in 1967 amounted to 33,955,284 lbs. The figure for vinyl-asbestos floor tile was 200,503,318 square feet. Shipments of goods of own manufacture were valued at $4,089,379 for asbestos-cement boards and sheets, $1,525,732 for asbestos packing, $23,280,788 for vinyl-asbestos floor tile, and $1,922,117 for other asbestos products (including clutch facings). Among the products for which data were kept confidential are asbestos cloth, asbestos paper, asbestos-cement pipe and asbestos-cement shingles.

Canadian Mines Handbook 1970-1971—The day of the small mine in Canada is definitely *not* over but the years 1970 and 1971 do mark the dawning of a new age of the "really big" mines in Canada. One of the mills that falls into the category of a "big" operation is Canadian Johns-Manville's 33,000-ton mill at Asbestos, Quebec. This and many other facts are recorded in the latest edition of the "Canadian Mines Handbook," available at $6.00 per paper-bound copy and at $7.00 for a leatherette-bound copy from *The Northern Miner Press Ltd.*, 77 River Street, Toronto 247, Ontario.

Details and developments concerning over 4,000 Canadian mining companies are covered in the Handbook such as property holdings, corporate information, financial statements, production and export statistics, locations and other pertinent data concerning mine offices. The Handbook also contains an 8-year price range of stocks listed on the various Stock Exchanges in Canada.

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The Asbestos Factbook

Have you often searched through many volumes to obtain facts about asbestos? Could you use a compact and informative 28-page booklet that is a handy, complete and up-to-date reference on the subject of asbestos?

If the answer is "yes" then *The Asbestos Factbook* is for you! It will be useful when preparing luncheon talks and training sessions; educators will welcome it; and it would readily answer many of the inquiries received by members of the Asbestos Industry. Many companies in the Industry will want to circulate copies to their sales, marketing, public relations and advertising people.

The Asbestos Factbook contains individual chapters on: The Origin of Asbestos, Terse Asbestos Facts, Where Asbestos Is Found, The Uses of Asbestos and Asbestos Products, Chemical Compositions of Various Types of Asbestos, descriptions of The Quebec Standard Asbestos Testing Machine and of the QAMA Standard Procedures for Bauer-McNett Testing, and Asbestos Grades of Canada, Arizona, California and South Africa.

Order your copies now of the just published, new edition of *The Asbestos Factbook* — only 75c per copy (bulk rates on request). Write to ASBESTOS, P. O. Box 471, Willow Grove, Pa. 19090.

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MEN ON THE MOVE

GARLOCK INC.

Alexander Kuzmuk has been promoted to President of the Mechanical Rubber Division with responsibilities of directing the manufacturing, marketing and engineering functions of the Division. Mr. Kuzmuk joined Garlock in 1964 as a Senior Industrial Engineer and since that time has received assignments such as Chief Industrial Engineer, Manager of the Industrial Engineering Department, Manager of the Product Planning Department and, most recently, Vice President of Product Planning. The Mechanical Rubber Division is located at Palmyra, New York, 20 miles east of the company's Corporate offices in Rochester.

JOHNS-MANVILLE CORPORATION

Marshall J. Cowan was appointed General Marketing Manager for the Packings and Friction Materials Division and a Vice President of the J-M Sales Corporation. Since joining the company in 1940, Mr. Cowan has held various positions including District Sales Manager in Pittsburgh, Pennsylvania, and in New York City and General Sales Manager of Packings and Textiles at Manville, New Jersey.

PANACON CORPORATION

A. R. Morgan, Jr., was appointed Vice President of Operations for Panacon Corporation, succeeding **Dr. H. H. Anderson** who recently was named President of Briggs Manufacturing Company, a division of Panacon. Mr. Morgan had served as Director of Research since 1968.

RAYBESTOS-MANHATTAN, INC.

Kenneth A. Gainer, formerly Assistant General Manager, has been named General Manager of the Manheim Division, it was announced by Dr. E. P. Stefl, Group Vice President—Operations. Mr. Gainer joined R/M in 1949 as an engineering trainee.

SIMPLICITY ENGINEERING COMPANY

Fred E. Turner is National Sales Manager for the Aggregate and Mining Industries. He has ten years of field experience in these industries, is a member of the Vibrating Screen Manufacturer's Association and President of the Crusher and Portable Plant Association.

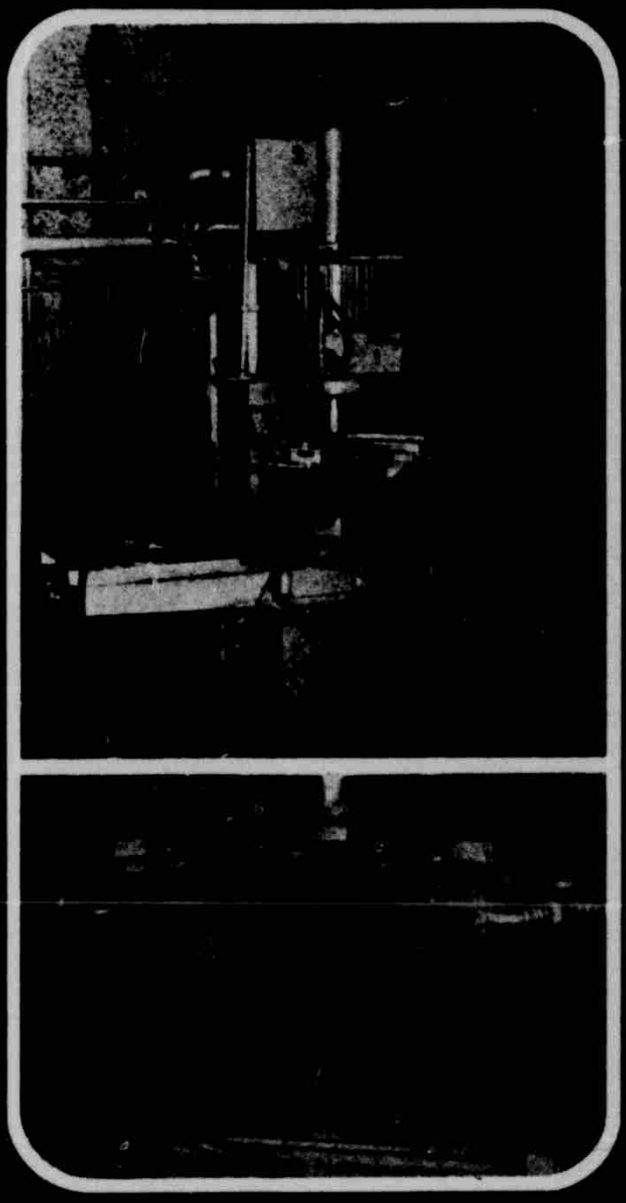
UNIROYAL, INC.

Clarence H. Sigler, Jr., General Manager of the Fiber and Textile Division, was elected a Vice President of Uniroyal. He joined the company in 1942 and has held key sales management and marketing positions including his latest assignment as Director of Marketing for the Division. He will continue to headquarter in New York City.

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MACHINERY and PLANTS
for PIPES and SHEETS
in ASBESTOS CEMENT



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ON THE BASIS OF PATENTS AND PROCESSES OF FIBRONIT, MILAN, ITALY.

ASBESTOS PRICES

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

(As of August 1, 1968) U.S. Dollars

No. 1 Crude	$1,410.00 —	$1,650.00
No. 2 Crude	700.00 —	950.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering-Plastic)	425.00 —	700.00
Group No. 4 (Non-Ferrous Filtering-Plastic)	400.00 —	500.00
Group No. 5 (Non-Ferrous Filtering-Plastic)	385.00 —	425.00
Group No. 6 (Non-Ferrous Plastic)	..	250.00
Group No. 7 (White Shorts)	65.00 —	90.00

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

(As of January 1, 1970) Canadian Currency

Crude No. 1	$ ..	$1,525.00
Crude No. 2	..	825.00
No. 3 (Spinning Fiber)	397.00 —	650.00
No. 4 (Asbestos-Cement Fiber)	218.00 —	369.00
No. 5 (Paper Fiber)	157.00 —	184.00
No. 6 (Paper & Shingle Fiber)	..	114.00
No. 7 (Shorts)	48.00 —	95.00

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

(As of January 1, 1969) Canadian Currency

AAA Grade (Non-Ferrous Spinning Fiber)	$ 845.00
AA Grade (Non-Ferrous Spinning Fiber)	673.00
A Grade (Non-Ferrous Spinning Fiber—Canadian Group 3)	508.00
AC Grade (Asbestos-Cement—Canadian Group 4)	363.00
AK Grade (Shingle Fiber—Canadian Group 4)	249.00
CP Grade (Shingle Fiber—Canadian Group 4)	234.00
AS Grade (Shingle Fiber—Canadian Group 4)	217.00
CT Grade (Shingle Fiber—Canadian Group 4)	211.00
AX Grade (Shingle Fiber—Canadian Group 5)	193.00
CY Grade (Shingle Fiber—Canadian Group 5)	136.00
AY Grade (Shingle Fiber—Canadian Group 5)	136.00

VERMONT Per Ton of 2,000 lbs., f.o.b. Morrisville, Vermont

(As of January 1, 1970) U. S. Dollars

Group No. 3 (Spinning & Filtering Fiber)	$ 366.50 —	$ 393.50
Group No. 4 (Shingle Fiber)	201.00 —	341.00
Group No. 5 (Paper Fiber)	145.00 —	170.00
Group No. 6 (Waste)	..	105.00
Group No. 7 (Shorts, Floats)	48.00 —	87.50
Hooker No. 1 (Packaged in 50-lb. Burlap Bags)	..	402.00
Hooker No. 2 (Packaged in 100-lb. Burlap Bags)	..	201.00

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ASBESTOS STOCK QUOTATIONS

Close—October 23, 1970

Abitibi Asbestos	**$4.85	Grace	27 3/8
Advocate Mines	**$2.15	Gulf & Western	16 1/2
Asarco	26 3/4	G&W (pfd 1.75)	53 1/8
Armstrong Cork	28 7/8	G&W (pfd 3.50)	67 1/4
Armst Cork (pfd 3.75)	49 1/2	G&W (pfd 3.87)	41
Asbestos Corporation	*$28.00	G&W (pfd 5.75)	56
Bendix	24 3/8	Illinois Central	26 1/2
Bendix (pfd 3)	42 1/4	Ill. Central (pfd 3.50)	46 1/8
Carlisle	13 1/2	Johns-Manville	35
Cassiar	*$22.75	Maremont	9 1/8
Cerro Corporation	17 3/4	National Gypsum	21 1/4
Certain-teed	20 3/4	Panacon	2 5/8
C-teed (pfd .90)	20	Porter (pfd 5.50)	60 7/8
Conwest	*$12.12	Raybestos-Manhattan	22 7/8
Flintkote	24 3/4	Royal Industries	7 3/4
F-kote (pfd-A 4.50)	71	Unarco	87/8
F-kote (pfd-B 2.25)	33 1/2	Union Carbide	35 1/2
GAF Corporation	10	Uniroyal	16 3/4
GAF (pfd 1.20)	16 3/4	Uniroyal (pfd 8)	96 1/2
Garlock	16 1/8	United Asbestos	3 3/8

*Canadian currency
**Canadian currency: Close—October 20
(Sources: The Wall Street Journal & The Northern Miner)

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ACTION ON STANDARDS

The Standards Association of Australia has issued *Standard No. AS Z61—Rheological Terminology and Classification*, a glossary of terms and classification of properties relating to the deformation and flow of materials. The Australian Standard has been published to facilitate uniform interpretation of research reports and other industrial documentation in relation to rheological matters. The Standard is divided into two main parts. Part I contains definitions of terms relevant to the properties of liquids and solids under conditions of deformation and flow. Part II outlines a scheme for classifying liquid and solid materials according to the rheological properties they exhibit when subjected to specified idealized tests.

The Association also announced the issuance of *Standard No. CK19—Spectrophotometric Practice*, a Code of recommended practice for the chemical analysis of materials by ultraviolet/visible spectrophotometry. The object of the Code is to standardize the measurement of the light absorptive capacity of a stable colored solution and the relation of the measurements to the concentration of the desired constituent.

A copy of AS Z61 is available at $1.40 each. The cost of CK19 is 60c per copy.

British Standard 3590 on "Sprayed Asbestos Insulation" has been revised to introduce the use of metric units. There are no technical changes to "BS 3590: 1970." It continues to specify standard requirements for the composition, manufacture, preparation of samples and testing of sprayed asbestos insulation. It should be noted, however, that since the original edition of the Standard in 1963 the information on use and application of the material then included has been incorporated in a British Standard Code of Practice, CP 299, devoted solely to this area. Together, the Code and the revised Standard provide essential guidance to those concerned with the application of sprayed asbestos insulation.

British Standard 4624—Test methods for asbestos building products in the past have appeared in individual BSI publications. The new BS 4624, "Methods of Test for Asbestos and Asbestos-Cement Building Products," brings all the tests together in one metric version. Also, a detailed study was made of the methods described in the ISO Recommendations that apply to asbestos-cement products and the tests in this new Standard embody the ISO requirements.

New Indian Standards—The Indian Standards Institution, New Delhi, India, has issued the following new Standards: IS1233-1969—Recommendations For Modular Coordination of Dimensions in the Building Industry (First Revision), R4.00; IS5420 (Part I)-1969—Guide on Precision of Test Methods, Part I on Principles and Applications, R5.00; and IS5328-1969—Method of Test for Determination of Chemical Composition of Asbestos Fiber, R6.50.

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BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

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CALENDAR OF EVENTS

ASTM Committee Week will be held at the Hotel Muehlebach, Kansas City, Missouri, December 6-11. Meetings will be held by Committees C-1 on Cement; C-7 on Lime; C-9 on Concrete and Concrete Aggregates; C-12 on Mortars for Unit Masonry; D-4 on Road and Paving Materials; D-8 on Bituminous and other Organic Materials for Roofing, Waterproofing and Related Building or Industrial Uses; E-6 on Performance of Building Construction; and E-9 on Fatigue.

ASTM Committee Week in January will be held from the 7th to the 15th at Schrafft's Motor Inn and Galt Ocean Mile Hotel, Fort Lauderdale, Florida. The following Committees will convene: C-4 on Clay Pipe; C-26 on Fuel, Control and Moderator Materials for Nuclear Reactor Applications; D-26 on Halogenated Organic Solvents; D-30 on High Modulus Fibers and Their Composites; E-7 on Non-Destructive Testing; E-18 on Sensory Evaluation of Materials and Products; F-8 on Protective Equipment for Sports; and ANSI N-11 on Basic Materials and Materials Testing Involved in Nuclear Applications.

ASTM Committee C-24 on Building Joint Sealants will meet at the Netherland-Hilton Hotel, Cincinnati, Ohio, January 17-19.

Asbestos Textile Institute will hold it's next General Meeting at the Red Carpet Inn in Charlotte, North Carolina, February 3-4.

Earth Science Symposium on Off-Shore Eastern Canada will be held in Camsell Hall, Department of Energy, Mines and Resources, Ottawa, February 22-24. The main objective of the Symposium will be to summarize present knowledge of the continental shelves and slopes of Eastern Canada so that emphasis will be on results rather than on techniques, although descriptions of new techniques will be encouraged. Contact the Chairman of the Program Committee: Dr. Peter Hood, Room 573, Geological Survey of Canada, Ottawa 4, Ontario (Telephone—(613) 994-5652).

The 5th Symposium on Temperature, Its Measurement and Control in Science and Industry will be held in Washington, D. C., from June 21-24. Prospective authors are invited to submit abstracts for consideration to the Program Chairman, Dr. H. H. Plumb, Room B222, Physics Building, National Bureau of Standards, Washington, D. C. 20234. Final deadline for abstracts is *January 4, 1971.* The Symposium is sponsored by the American Institute of Physics, the Instrument Society of America, and the National Bureau of Standards.

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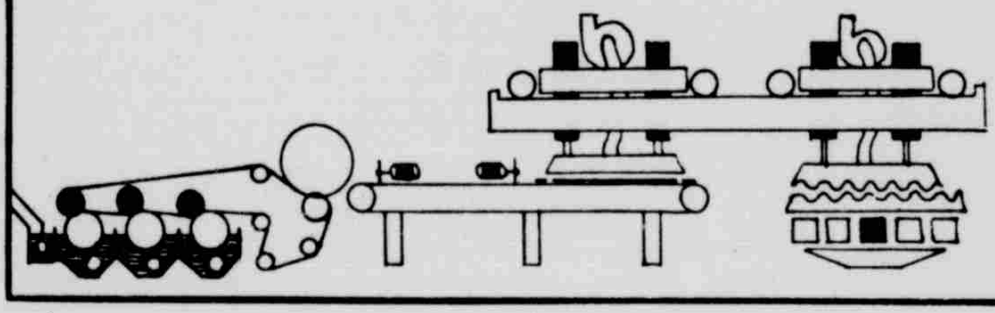
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Remember When?

(November 1920 ASBESTOS)

New Advertisers: A. E. Van Bibber; The Victoria District Industries, Ltd.; National Magnesia Mfg. Co.

A most enlightening article by Alfred H. Stark, Secretary of E. H. Garcin and Co., concerned the characteristics of the then relatively new Amosite asbestos. It pointed up the many desirable features of this material and also the specialized processing methods under development to permit its successful use in a variety of promising applications.

Another article, by Victor S. Welsford, Chairman of African Base Metals Export Co., Ltd., presented a review of the asbestos-producing industry in South Africa at that time.

Based on findings of three years study in large industrial plants, the U.S. Public Health Service reported that an 8-hour day produced a higher efficiency in labor and was more economical than the 10-hour day then widely in effect.

The U.S. Department of Commerce reported that, in 1919, exports of automobiles from the U.S. exceeded $232 million.

Asbestos Corporation of Canada and Jacob A. Jacobs, one time contenders for control of Black Lake Asbestos & Chrome Co., were reported to have joined forces in an effort to force the resignation of the Board of Directors with a view to appointing a new Board of their choosing.

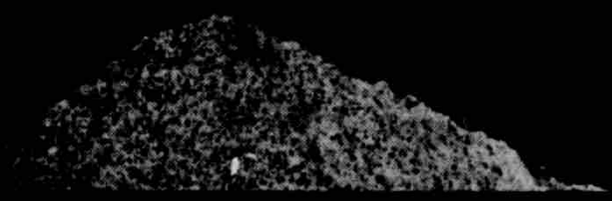
Southern Asbestos Co., Charlotte, North Carolina, increased its capital to $800,000 and Southern Asbestos Co. of Raleigh, N.C., increased its capital from $350,000 to $500,000.

The death of Fred F. Bennett, Manager of the Vimy Ridge Mine of Bennett-Martin Asbestos & Chrome Mines, Ltd., occurred on November 7, 1920, at his home in Thetford Mines, Quebec.

Joseph Poulin was reported as having started erection of a plant for the manufacture of automobile brake lining at East Broughton, Quebec. This was believed to be the first factory of its kind in Canada.

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You'll Find... Unusual Whiteness...Low Iron Content.....Uniform Fibre Length...High Fibre Value (90% on 100 mesh)...



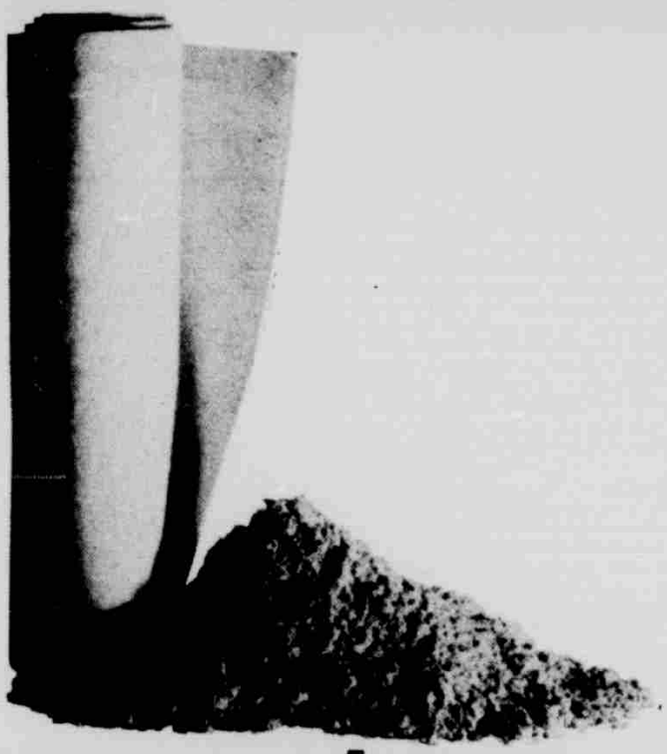
IN Carey 7RF FLOATS

Grit-free Carey-Canadian 7RF-9 is specified in great quantities by resin compounders, joint cement manufacturers and others who have improved their products with these floats.

Get samples and data from the Warehouses below or from Carey-Canadian Mines, Ltd., P.O. Box 15070, Lockland, Cincinnati, Ohio 45215, or The Philip Carey Co. Ltd., Ville St. Laurent, Montreal 9, P. Q., Canada.

Warehouse stock of 7RF asbestos floats at:

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Baltimore	A. B. Kohl Sales Co.
Birmingham	Thompson-Hayward Chem. Co.
Brooklyn	Smith Chem. & Color Co.
Buffalo	Commercial Chemicals, Inc.
Chicago	Chicago Firebrick Co.
Cleveland	Donald McKay Smith, Inc.
Dallas	Thompson-Hayward Chem. Co.
Davenport, Iowa	Thompson-Hayward Chem. Co.
Denver	Plateau Supply Co.
Des Moines	Thompson-Hayward Chem. Co.
Detroit	A. E. Fleming Co.
Hallandale, Fla.	Thompson-Hayward Chem. Co.
Houston	Thompson-Hayward Chem. Co.
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Indianapolis	Thompson-Hayward Chem. Co.
Kans. City, Mo.	Thompson-Hayward Chem. Co.
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Los Angeles	E. S. Browning Co.
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Wichita	Thompson-Hayward Chem. Co.
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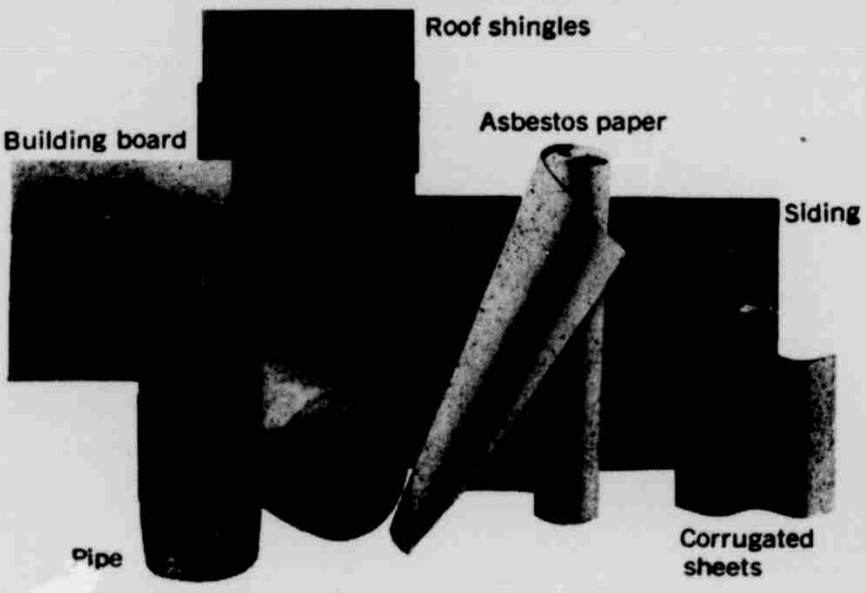
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