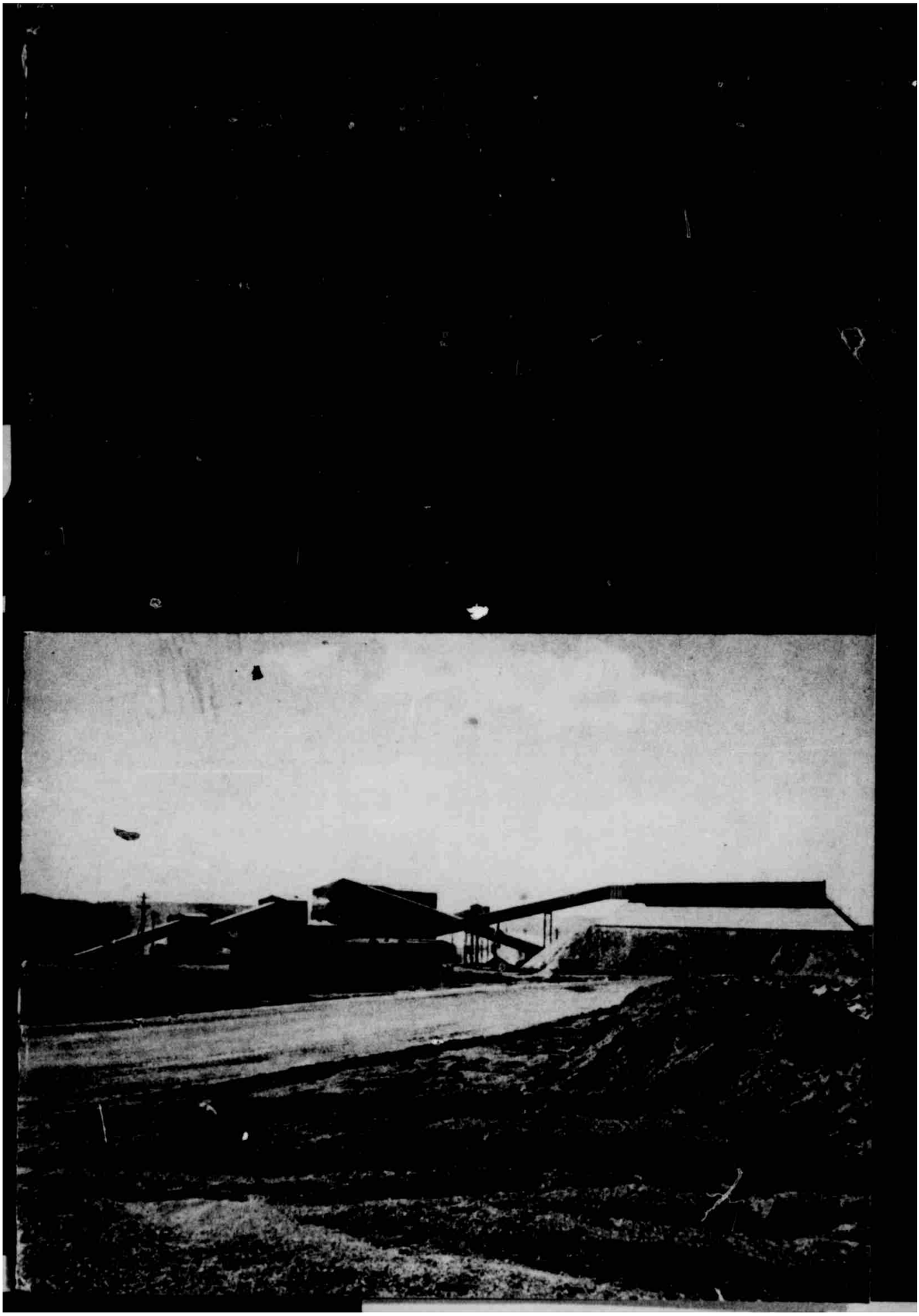
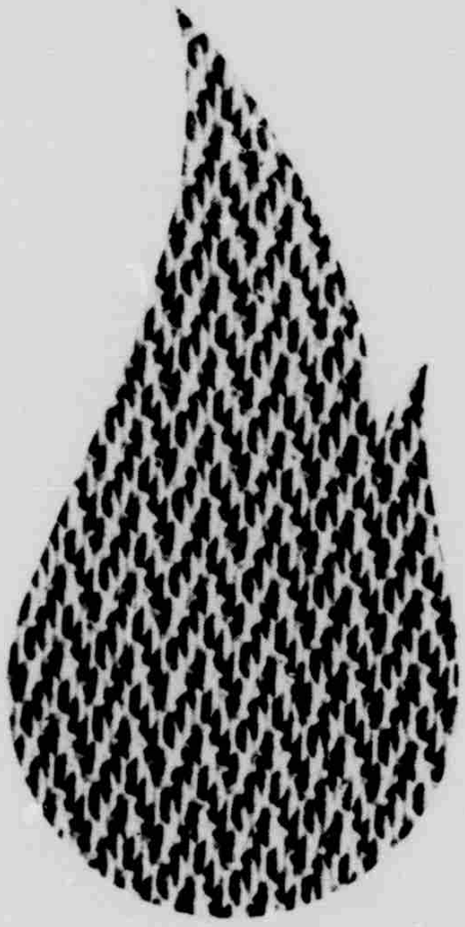


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ASBESTOS

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XI: American Asbestos Company American Asbestos Textile Corporation

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

In recording the history of American Asbestos Company and American Asbestos Textile Corporation it should first be made clear that the latter company is not a direct descendent of the former, even though they successively occupied the same buildings at Norristown, Pennsylvania.

The original American Asbestos Co. was organized July 21, 1909, by J. Gillmur Tyson. He had the financial support of several local businessmen, including his father-in-law, W. F. Jacoby and Isaac C. Weber. The first officers included Mr. Jacoby as President, Mr. Weber as Treasurer and Mr. Tyson as General Manager. In 1911 and 1916, respectively, Mr. Jacoby and Mr. Weber withdrew from the company, leaving Gillmur Tyson as the only original member of the firm.

Gill Tyson served his apprenticeship in the industry under Harry Everham, who was at that time Secretary of Keasbey & Mattison Company. When Gill Tyson left K&M to found the American Asbestos Co. he took with him several K&M employees including Jesse Zearfoss, who became Factory Superintendent of the company. It would, therefore, be fair to say that American was an offshoot of K&M.

It is interesting to note that the main manufacturing building at Norristown was originally the car barns of the local trolley company. Trolley cars in those days were drawn by horses and were commonly referred to as "horse cars."

American Asbestos Co. was originally and primarily a manufacturer of asbestos packings. This again confirms the premise that "the steam engine is the father of the asbestos textile industry". The company soon installed asbestos carding, spinning and weaving equipment in order to produce its own basic requirements for asbestos textiles.

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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.

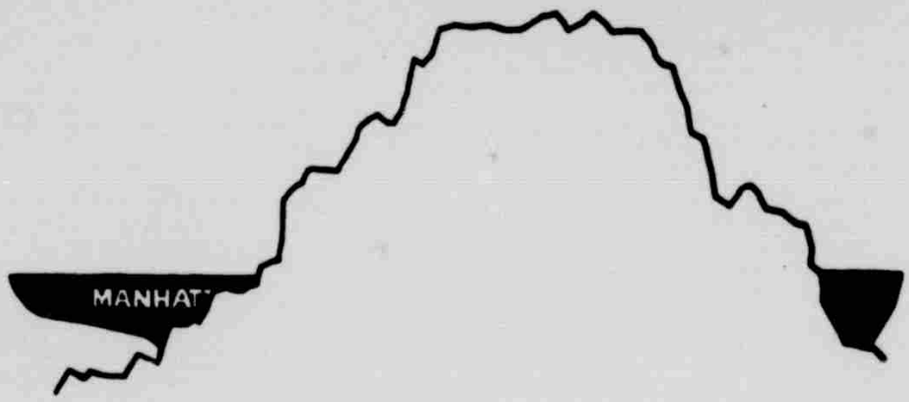
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It should be recalled that in 1909 the automobile had just emerged from the days of the horseless carriage. Gillmur Tyson was quick to recognize the growth potential in the automotive industry and was in a favorable position to undertake the manufacture of woven asbestos brake lining, under the brand name of "TesTbesTos."

In 1915 J. Carroll Johnston joined American as a salesman. According to Mr. Johnston, by 1915 the firm's principal sales effort was in woven brake lining and woven clutch facings and the packing line was rather neglected.

Mr. Johnston moved up to Assistant General Manager in 1916 and served in that capacity until 1922. In that year he resigned to found the Atlas Asbestos Company in Norristown, Pa. The business soon outgrew the original quarters and in 1924 moved to the present location at North Wales, Pa. Atlas was also a weaver of brake lining tapes. In addition it specialized in asbestos fine tapes (.010"-.030" gauge) and for many years has been a major weaver of so-called "decimal tapes." In more recent years Atlas also has been an important weaver of the glass tapes used by the electrical industry and of asbestos and glass stove wicking.

The war years, 1914-1918, saw a greatly expanded demand for asbestos textile products of all kinds, necessitating a substantial addition to the original American Asbestos Co.'s plant at Norristown.

In 1930 J. Gillmur Tyson, Jr., joined the company as Assistant Treasurer. He succeeded his father as head of the firm in 1937. Very little is known of the operation of the company in the period between World War I and World War II. The second world war created an unprecedented demand for asbestos textiles. Mr. Tyson saw an opportunity to dispose of his company which had been operating with indifferent success even during this period of peak demand. He sold the plant to the Philadelphia Asbestos Company, November 13, 1942.

It, therefore, becomes necessary to turn back a page and record the founding of a thermal insulation contractor which is still very much a going concern.

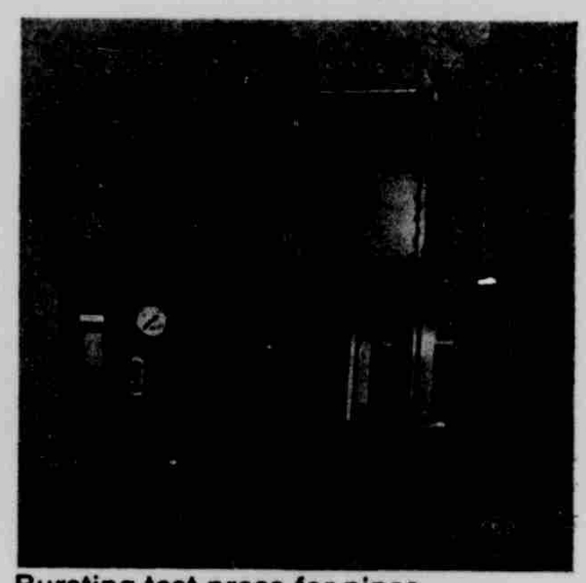
In 1921 Edmund R. Teubner, Jr., was Philadelphia District Manager for Keasbey & Mattison. On October 21 of that year he founded the Philadelphia Asbestos Co. with the

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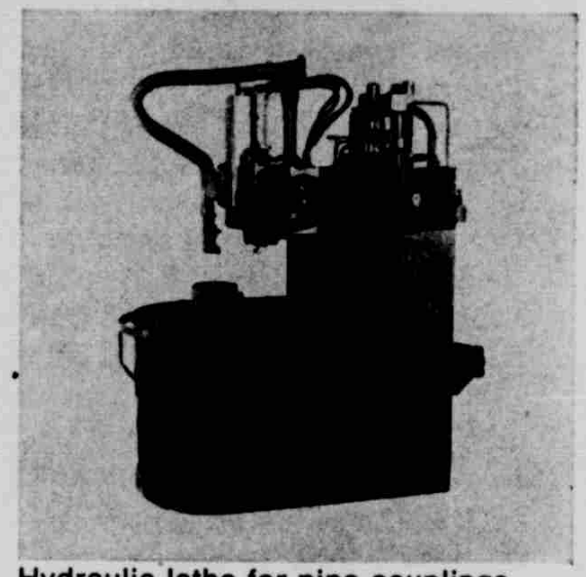
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backing of John J. Liner and John Davis. Ed Teubner was President right from the start. The company, then as now, was an insulation contractor specializing in marine applications.

World War II saw the nation embarked on the greatest shipbuilding schedule in the history of the maritime industry. Two of the largest shipyards in the Philadelphia area were the New York Shipbuilding Company, Camden, New Jersey, and the Sun Shipbuilding & Dry Dock Company, Chester, Pa. Philadelphia Asbestos Co. was the major shipboard insulation contractor for both of these war-expanded shipyards. As a matter of fact, Philadelphia Asbestos had its own warehouses and assembly areas on the premises of both of these shipyards.

During World War II asbestos cloth was used as lagging over thermal insulation by the shipbuilding industry, much as it is today. Philadelphia Asbestos' requirements for asbestos cloth increased by leaps and bounds and the company found it difficult, if not impossible, to obtain adequate yardages from its established suppliers most of whom were also competitors. In desperation Ed Teubner decided to purchase the plant of the American Asbestos Co. at Norristown, Pa., even though he fully realized it was in a deplorable state of disrepair. In November 1942 the Norristown plant became a part of Philadelphia Asbestos Corporation.

The new company was operated by Anthony J. Scanlan, President and head of the Sales Department, and John W. Weber, Vice President. Ank Scanlan served as Treasurer of the Asbestos Textile Institute in 1953 and 1954 and as Vice President in 1959 and 1960. (He was better known to the general public as head football coach at Holy Cross College, Worcester, Massachusetts.)

John Weber had been selected to rebuild and re-equip the Norristown plant because of his intimate knowledge of textile equipment and processes. He is a nationally recognized expert in asbestos carding and good carding is essential to any successful textile operation. Without good carding the subsequent operations of spinning, twisting and weaving (or braiding) cannot possibly be efficient. Mr. Weber soon had the mill in sufficiently good condition to weave asbestos cloth to meet U.S. Navy and Coast Guard specifications. John Weber is currently Chairman of the Board and Chief

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Executive Officer of American Asbestos Textile Corporation.

Following World War II the shipbuilding industry came to a standstill. Philadelphia Asbestos had to turn to industry in general to keep the Norristown plant in operation. By 1950 it became apparent the textile mill would have to operate as a separate entity if it were to successfully compete in the general market. American Asbestos Textile Corporation was formed October 23, 1950. Ank Scanlan continued as President until his death, February 13, 1965. Shortly thereafter, John Weber was elected President.

In 1962 Joseph W. Christenbury came from the Southern Asbestos Works of H. K. Porter Company to head American's Textile Sales Department. He assembled a team of asbestos textile salesmen and succeeded in keeping the Norristown plant operating at near capacity. Joe Christenbury is now Vice President in charge of Sales. He is also active in ATI and currently serves as a member of the Board of Governors and the Asbestos Advisory Committee.

By 1962 Turner & Newall Limited had decided to liquidate the venerable Keasbey & Mattison Co. K&M's asbestos textile mill was located at Meredith, New Hampshire, at the southern end of beautiful Lake Winnipesaukee. American contracted to purchase the textile mill. In so doing they acquired the able services of John L. Rainey, Andrew Whitfield, D. F. Quealy and numerous other men with experience in the asbestos textile industry.

In 1957 Michael J. Scanlan, son of the President, joined the company. After serving his apprenticeship in the Norristown office, Mike was assigned to the Chicago territory as a salesman. He currently serves the company as Vice President and Treasurer at Norristown headquarters.

The year 1962 also saw American Asbestos Textile embark on its first foreign venture. An affiliate company, also a manufacturer of asbestos textiles, was formed in Toluca, Mexico, known as Hilados Y Tejidos de Asbestos S.A.

In 1967 John Rainey arrived at the Norristown headquarters as Vice President of the corporation. He was elected Executive Vice President in 1968 and President in 1970. He served as President of the Asbestos Textile Institute in 1967 and 1968. Dan Quealy became Superintendent of the Meredith plant. He served several terms as Chairman of ATI's

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Technical Committee.

In 1968 American further expanded its asbestos textile operations by starting up a new plant in the neighboring town of Milford Square, Pa. The new plant is primarily a spinning mill and is unique in several respects. It has an ultra-modern system for removing asbestos dust from the air in the working areas. The spinning equipment is of the latest type and produces unusually large yarn packages at very high spindle speeds.

Today, American Asbestos Textile Corporation is a dynamic company, growing steadily and serving a broad segment of American industry.

Next Issue . . .

Chapter XII: Standard Brake Lining Co.

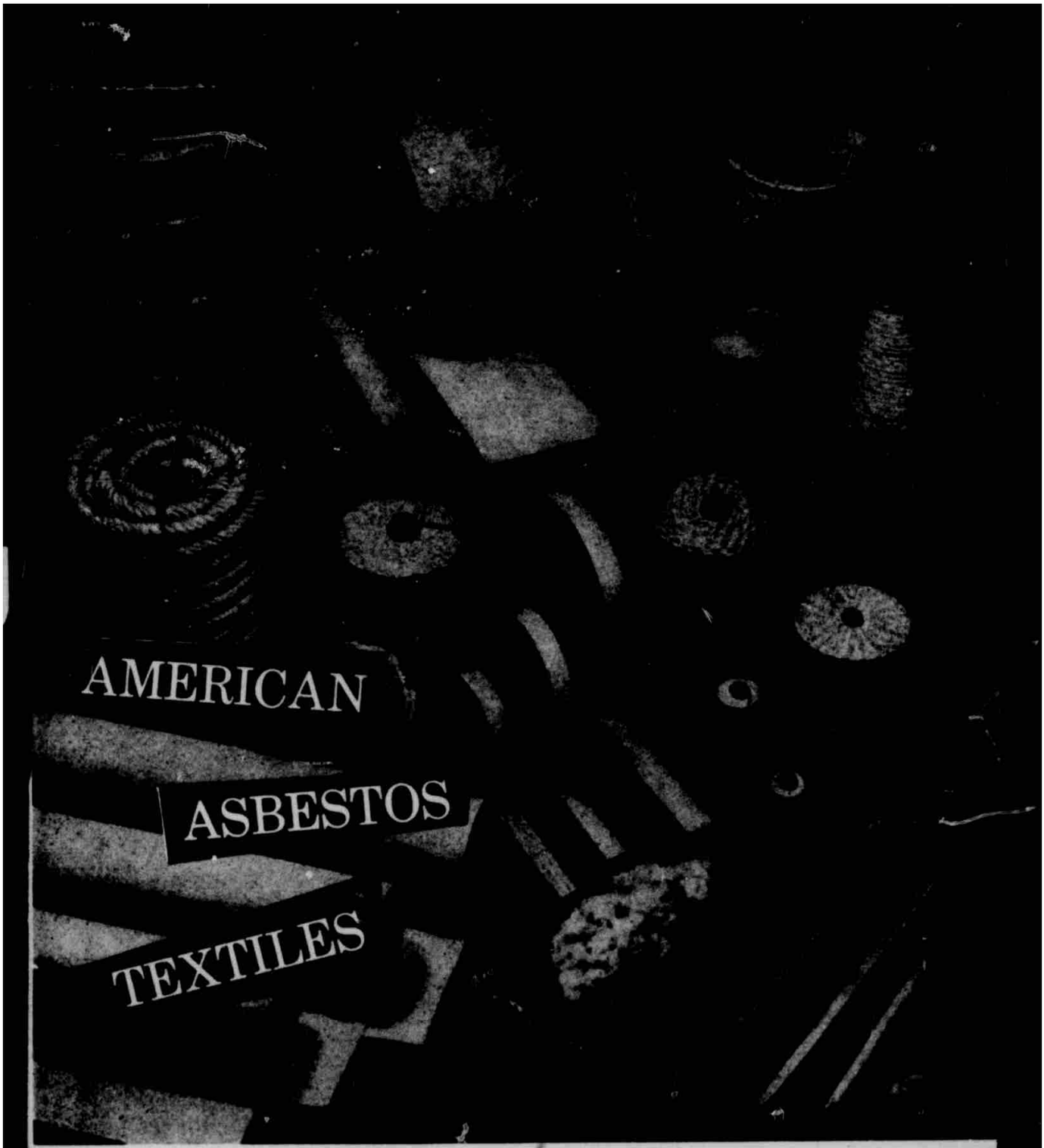
Chapter XIII: Asbestos Textile Co.

THE COVER

Beginning with this issue, a photograph will be printed on each front cover of ASBESTOS. In the series of illustrations, we will endeavor to cover many facets of the Asbestos Industry such as mining and milling operations; manufacturing facilities; dust control techniques; grading, testing and research methods; various applications of asbestos fiber and asbestos-based products; etc.

This issue's front cover is a view of National Gypsum Company's asbestos operation at Thetford Mines, Quebec, Canada. Does National Gypsum believe in the value and effectiveness of its product? Indeed it does! All of the buildings at the asbestos operation are covered with Gold Bond corrugated asbestos-cement panels, including the 5-story mill (left) and the 10,000 ton rock storage building (right). And National is its own biggest customer for its middle Grades of fiber—for use in the manufacture of asbestos-cement building products. With three plants, National is the largest U.S. producer of asbestos-cement siding, flat sheets, plain and prefinished panels, and corrugated panels.

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J-M TO RELOCATE

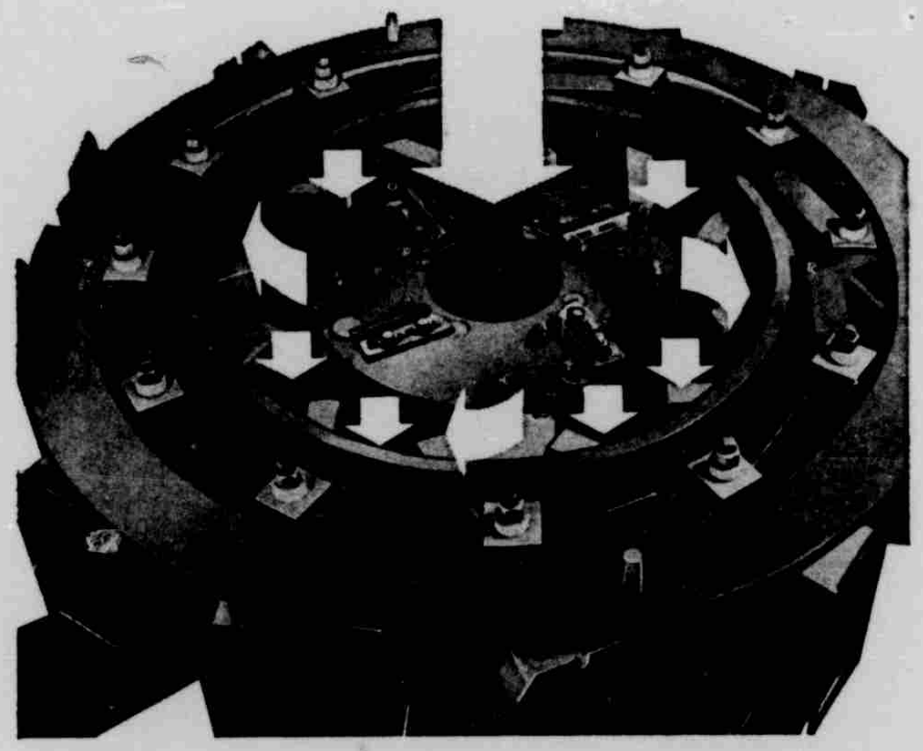
The headquarters operations of Johns-Manville Corporation now in New York City; Finderne, New Jersey; and other locations in the United States will be consolidated in Denver, Colorado, by September, 1972. The key influencing factor in the decision was the need to combine the company's administrative and service functions to bring about improved operating efficiency. According to W. R. Goodwin, J-M President and Chief Executive Officer, "Working with architect and space planning groups and with real estate consultants, we intend to develop at Denver one of the most outstanding corporate headquarters facilities in the U.S."

Approximately 1500 persons are employed at the present J-M headquarters in New York City and in the research, engineering, data processing and accounting operations at Finderne. J-M will continue some offices in the New York area to maintain long-established relationships with the business and financial communities.

COMPANY EXPANSIONS

Modular Sciences, Inc., a majority-owned subsidiary of Certain-teed Products Corporation, will build a new $1 million housing plant at Hillsborough, North Carolina, for the production of modules, panels and components for single-family homes, town houses and garden-type apartments . . . . Johns-Manville Corporation increased production capacity 40% at its plant at Waukegan, Illinois, to assure meeting future needs of the replacement market for heavy-duty brake blocks . . . . R/M International will establish a manufacturing facility in Australia to provide clutch facings for the Automotive Industry in the country . . . . Surveyer Nenniger & Chenevert Inc. formed a West German subsidiary, SNC Ingenieurgesellschaft mbH, with an office in Dusseldorf . . . . Turner & Newall Ltd. will re-activate its asbestos-cement pipe-making machine at the Enugu Works of Turners Asbestos Cement (Nigeria) Ltd. The machine will produce pipes up to 4 meters in length and 18" in diameter.

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TBA RECEIVES AWARD

Turner Brothers Asbestos Co. Ltd., a subsidiary of Turner & Newall Ltd., was presented the Queen's Award to Industry for 1971 for its overall Export achievement and technological innovations in asbestos textile technology. Over 40% of TBA's total sales in 1970 were to overseas markets in 119 countries.

M. S. BADOLLET HONORED

Marion S. Badollet, well known authority on asbestos, received a Medal of Honor and a gold pin from the University of Missouri-Rolla for 50 years of "Research and Education."

Mr. Badollet is the worthy recipient of many honors and awards including a Certificate of Merit from the Dictionary of International Biography and the Alumni Award from Vincennes University. He was formerly Chief of the Asbestos Fiber Section of Johns-Manville's Research Center and has been Consultant at the Health Research Institute at Fairleigh Dickinson University.

AGREEMENTS/JOINT VENTURES

Sprout, Waldron & Co., Inc., entered into an agreement with A. O. Smith Corporation, Kankakee, Illinois, for exclusive sales rights for industrial models of Permaglas Storage Units and Sweep Arm Unloaders . . . . Small & Parkes Ltd., a subsidiary of The Cape Asbestos Co. Ltd., finalized an agreement with Gardiner Holdings and British Brake Lining, newly-acquired subsidiaries of Quinton Hazell Automotive Ltd., Sydney, Australia. The subsidiaries have been entrusted with the main Australian distributorship for both Don and Capasco friction materials . . . . Johns-Manville Idaho, Inc., announced a joint venture agreement with Sun Valley Company, Inc., for the development of an ecologically-sound, year-round recreational community adjacent to the Sun Valley, Idaho, resort area.

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ATI GENERAL MEETING

H. E. Sunbury, Executive Secretary of the Asbestos Textile Institute, submitted the following report on the Institute's second meeting of the year held at Cherry Hill Inn, Cherry Hill, New Jersey, June 9-10, 1971.

Special joint meetings of the ATI Technical and Fiber Testing Committees with Sub-Committee A-4 of ASTM Committee D-13 were held to finalize the revision of ASTM Specification D-1118, "Test for Magnetic Rating of Asbestos." Other committees met as usual.

The guest speaker following the ATI dinner on Wednesday evening was William P. Raines, Vice President and Director of Public Affairs, Johns-Manville Corporation. As Secretary of the newly-organized Asbestos Information Association/North America, Mr. Raines explained that the principal objectives of AIA/NA are to provide an authoritative channel of communication; to publicly rebut irresponsible and inaccurate information and/or criticism; and to publicize the many indispensable uses for asbestos products.

President L. E. Moody welcomed a new member to ATI in his announcement that Manufacturas Multiples S.A., Caracas, Venezuela, had joined the Institute since the last meeting.

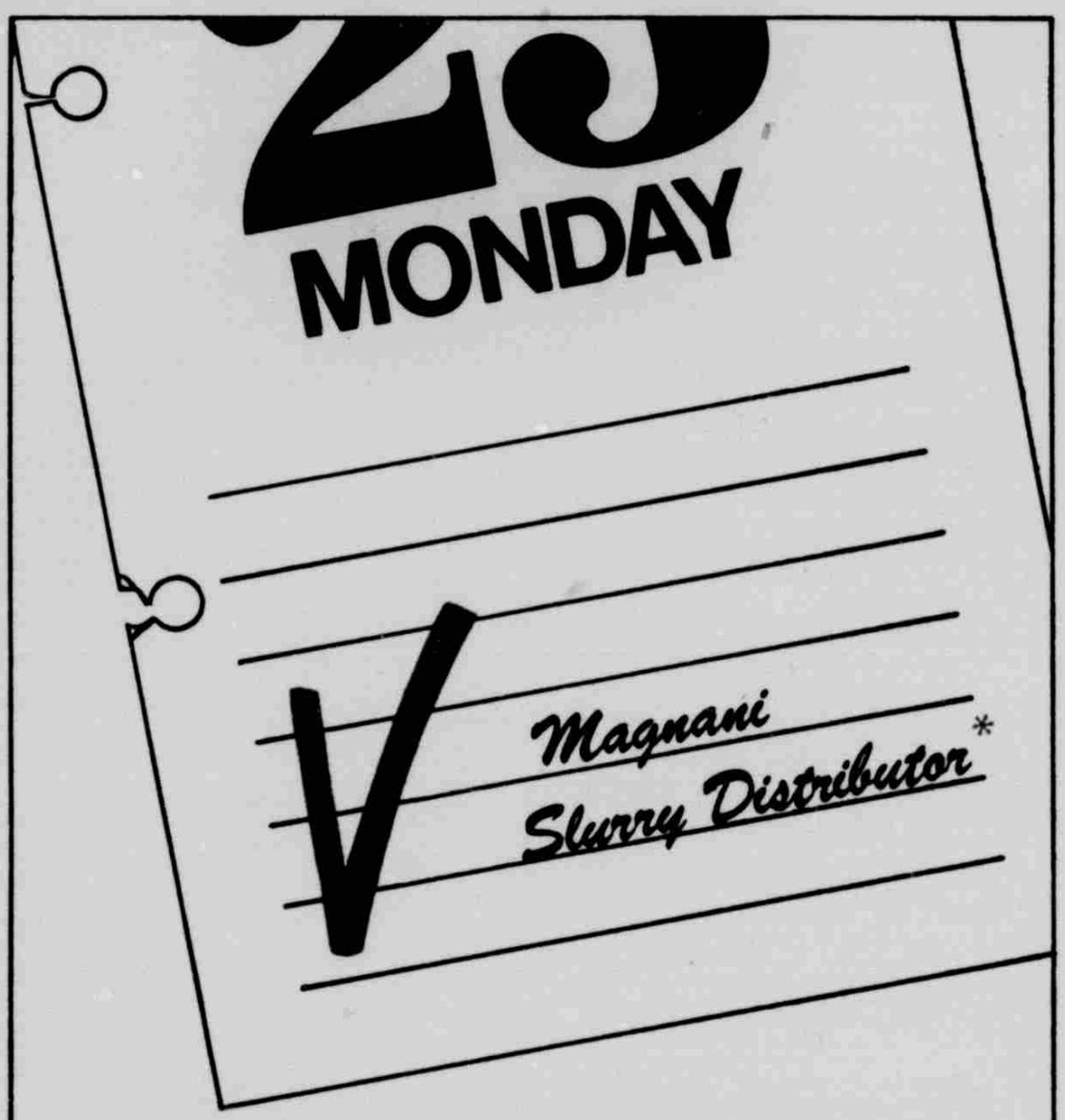
Two new folders are now available from ATI (P. O. Box 239, Pompton Lakes, New Jersey 07442): "Recommended Health Safety Practices for Handling and Fabricating Asbestos Textile Products" (free) and "Measurement of Airborne Asbestos Fiber by the Membrane Filter Method" ($1.00 postpaid).

E. A. Farrell, Sales Manager, Lake Asbestos of Quebec Ltd., reviewed the world market for all grades of asbestos fiber stating it continues to grow at an annual rate of about 5% and production is now keeping up with demand.

Special guests at the General Meeting on Thursday were the Editor and Publisher of ASBESTOS, Mrs. D. M. Fagan and Mr. C. J. Stover, respectively. Mrs. Fagan reported there has been a good response to the current series of articles by J. A. Bettes, Jr., entitled "History of the Asbestos Textile Industry in the U.S." and urged members to send in their orders for reprints of the entire series.

The next ATI General Meeting will be held at the Savannah Inn & Country Club, Savannah, Georgia, October 6-8, 1971.

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ASBESTOSIS & MESOTHELIOMA LITERATURE

The following publications are available from the Pneumoconiosis Research Unit of the Council for Scientific and Industrial Research, South African Institute for Medical Research, P. O. Box 4788, Johannesburg.

Asbestosis—bibliography of the world's literature abstracted and indexed 1960-68, by Sylvia Williams; submitted to the University of South Africa as partial requirement for a Degree in Bachelor of Library Science.

Reprints—Three articles published in the November 1970 issue of "Environmental Research" are available as reprints: Radiological Features of Diffuse Mesothelioma, by A. Solomon; Radiology of Asbestosis, by A. Solomon; and Asbestosis in South African Asbestos Miners, by G. K. Sluis-Cremer.

NEW COMPANIES

EnvirCo, 3810 Westheimer, Houston, Texas, has been formed to meet the growing needs of municipalities and industries for more effective pollution control equipment. EnvirCo will design, manufacture and sell engineered devices to remove particulate matter from air exhausts and systems to improve the efficiency of treating waste streams.

AWT Systems, Inc. (Advanced Waste Treatment Systems) was jointly announced by Hercules Inc., a leader in advanced waste water treatment technology, and Procedyne Corporation, an authority on physical disposal and processing of waste solids. AWT is owned 80% by Hercules and 20% by Procedyne.

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NEW FABRIC DUST COLLECTOR

Fisher-Klosterman, Inc., Louisville, Kentucky, has added new automatic fabric collectors to its line of dust collecting equipment. The new series ACF offers 99.9% efficiency in collecting particles as small as 0.5 microns and features a mechanical shaking system, rapid bag attachment capability and continuous operation when more than one module is used.

CASELLA DUST SAMPLER

The Willson Products Division of ESB Inc., Reading, Pennsylvania, issued a new leaflet, W7123, on its Casella M.R.E. Gravimetric Dust Sampler. The sampler is the standard instrument prescribed for use in sampling mine dusts under the new Federal Coal Mine Health and Safety Act, and is also suitable for industrial hygiene dust measurements. The literature introduces the T200 M.R.E. Cassette Mailer with Mine Data Card. After dust sampling, the cassette-enclosed filter is returned to the U.S. Bureau of Mines for recording.

MOBILE LABORATORIES

Scott Research Laboratories, Inc., Plumsteadville, Pennsylvania, a subsidiary of American Bioculture, Inc., announced three models of its new Mobile Air Pollution Laboratories. Model AQ is housed in a 31-foot bus and is a fully-equipped air quality monitoring laboratory complete with a meteorological weather station and living accommodations for two people. It is suitable for the measurement of carbon monoxide, methane, sulfur and nitrogen dioxides, etc. Model AE contains the Automobile Emission Analysis System for on-the-spot measurement of exhaust gases. Model SE is a fully-equipped trailer housing instrumentation to measure source emission pollutants such as stack gases in power and steel plants and incinerators.

Next Issue . . . .

The Birth of Scapa Textiles Ltd.

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SHEET PLANTS

Variable speed sheet machines with 2-3-4 sieve cylinders — Automatic cutting bench and pneumatic corrugators — Stacker — Sheet maturing tunnel — Rotating and bridge type Destacker — Mould lubricator.

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PROCESSING & CONSTRUCTION EQUIPMENT

CENTRIFUGAL REEL

Sprout Waldron & Company, Inc., Muncy, Pennsylvania, issued a new bulletin detailing its centrifugal reel designed for efficient screening of difficult-to-handle materials. The unit consists of two rotating reels within an enclosed housing and is effective on materials that tend to blind or float over screens of flat or sloping sieve-type sifters.

AIR IMPACT PULVERIZER

Trost Equipment Corporation, Newtown, Pennsylvania, offers grinding data on 150 materials in a new brochure on its line of fluid energy pulverizers. The literature contains a full description of the unique mills and their advantages over conventional grinding methods.

CASE CONSTRUCTION BACKHOES

J I Case Company, Racine, Wisconsin, is producing a 20,500 pound Model 780 CK backhoe to meet the demands of loader-backhoe users for a genuinely heavy-duty excavator. It is the heaviest and most powerful two-wheel-drive machine in the 18½ foot class . . . . The Hydra-Guide was announced as a new hydraulic guidance system for Case Construction King backhoes. It automates the digging portion of the cycle by automatically providing the ideal geometric and hydraulic power relationships between bucket, boom and dipperstick.

MARION METAL DUMP BODIES

A new series of special application engineered dump bodies from Marion Metal Products Company, Cleveland, Ohio, is designed for delivering materials up to 15 feet above ground level. The largest unit in the series is capable of dumping 21 tons in the lowered position.

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Sao Paulo "Brasimet" Comercio e Industria S.A.

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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.



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MARKET CONDITIONS

GENERAL BUSINESS

While Government spokesmen seem to be trying to read "recovery" into every slight improvement in the recognized economic indices, the truth of the matter is that, aside from the increase in new housing starts (which may be aborted by rising interest rates), the improvement in general business which started late last year is proceeding at an agonizingly slow pace. Unemployment continues at over 6% of the labor force and while inflation in consumer prices shows signs of slowing, recent wage increases in the can-making and aluminum industries are definitely inflationary and prospects of similar settlements in the copper and steel industries make it a certainty that substantial increases in the prices of base metals and metal products will be necessary in months to come. Markets for capital goods remain depressed as many companies are delaying expansion moves until they can see a substantial increase in utilization of presently idle facilities. With the normal "summer lull" just beginning, the prospects of a sharp upturn in business over the next few months are very dim indeed.

ASBESTOS FIBER

Demand for Arizona filter fiber continues very strong and some grades are in short supply. Indications are for a continuance of this situation for the balance of 1971.

[Comments on the asbestos fiber market in Canada and on the international level will be published in the next issue.]

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles—Further slowdowns in industrial activity and reduced purchasing by government agencies have resulted in somewhat reduced demand for asbestos textile products, bringing supply closely into balance with demand. Should the predicted improvement in general business develop, a stronger market could result later this year.

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NEWS

FOR
ASBESTOS-CEMENT
MANUFACTURERS

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sell A.C. felts... that's all!

SCAPA TEXTILES LTD.

Asbestos Brake Lining—While O.E.M. sales seem to be slowing slightly the replacement market is very strong and total volume should remain at satisfactory levels.

Asbestos Paper—Inventory build-ups in anticipation of the March price increases led from a strong first quarter to a decline in April and May. The outlook is for improvement in volume as inventories are depleted. A steel strike could hurt this market should it come to pass.

Asbestos Felt—Demand for asbestos felt has strengthened and producers are quite optimistic about prospects for the remainder of this year.

Asbestos Millboard—The market demand for this material is following the same pattern as that of asbestos paper.

High Pressure Insulation—The continuing construction of public utility power plants is a plus factor which makes the market for high pressure insulation strong and prospects for the future are quite good.

Asbestos-Cement Shingles, Roofing & Siding—Despite the upsurge in residential building, demand for these products is not strong and there are no signs of a pick-up in the immediate future.

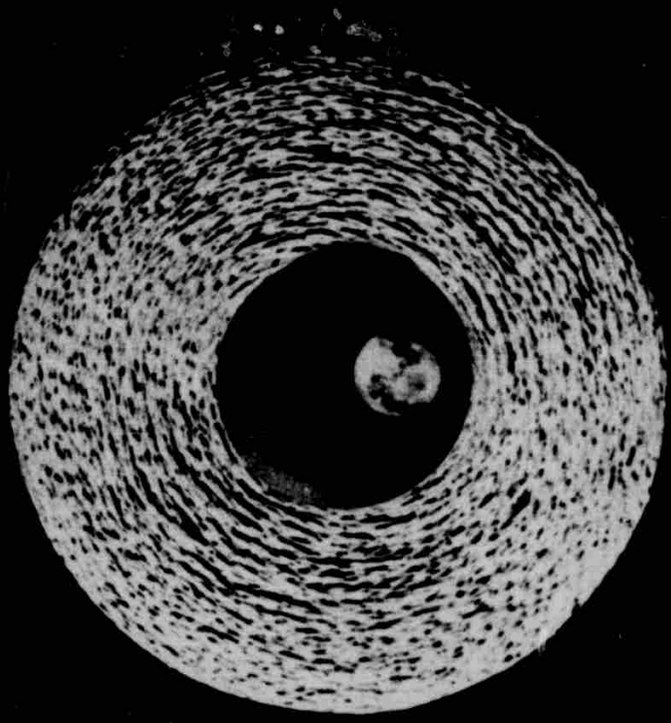
Asbestos Corrugated & Flat Sheets—The contraction in industrial construction is expected to continue for an indeterminate period and, under these conditions, the market for corrugated and flat sheets will suffer. However the drop-off in sales from those of 1970 has, fortunately, not been so severe as the drop in industrial building.

Asbestos-Cement Pipes—Sales of asbestos-cement pipes have been healthy since the beginning of the year and are expected to continue at satisfactory levels for some time to come.

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

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WE SET OUR SIGHTS FOR THE MOON AND MADE IT



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Amosite gives water a structure

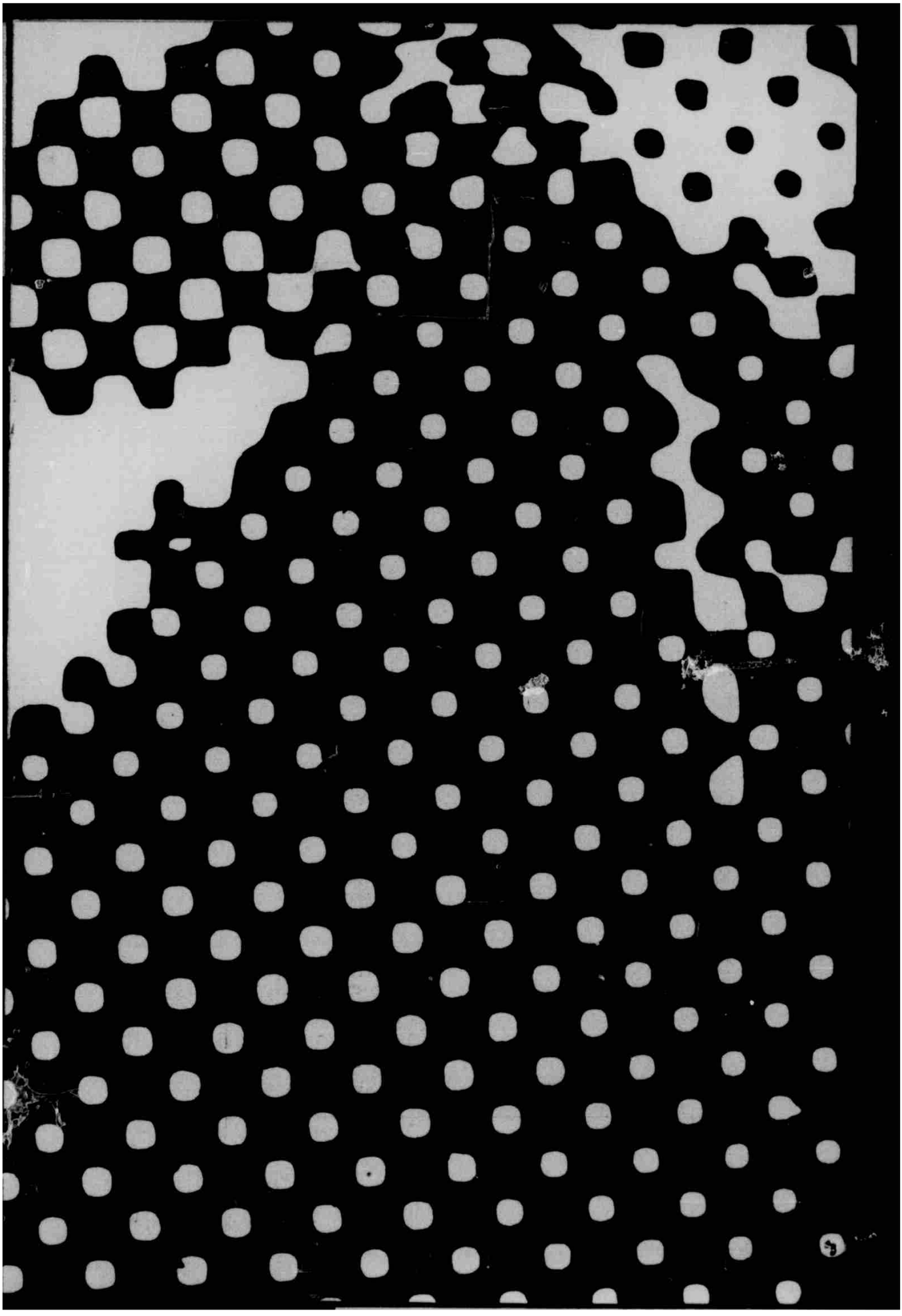
The wet bulking properties of Amosite are most effective in dispersing and suspending finely divided solids in aqueous slurries – a feature of particular importance in the manufacture of calcium silicate products. Comprehensive technical information and advisory service available.



Cape Asbestos Fibres Limited,
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North American Asbestos Corporation,
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CONSTRUCTION NEWS

May 1971 contracts for future construction showed continued strength and totaled $7,554,700,000, 42% above the depressed May 1970 value. The seasonally-adjusted Dodge Index was 141 (1967=100), down from 161 in April which was an all-time high index produced by an unusual concentration of very large projects. According to Dodge economist George A. Christie, "Care must be taken not to read too much expansiveness into the large May-to-May increase of 42% since May 1970 marked a three-year low for the Dodge Index."

Nonresidential building contract value totaled $2,263,539,000, a 32% increase over May 1970.

Residential construction value was 61% above the year-ago amount and reached an all-time high of $3,310,180,000.

Nonbuilding construction contracts totaled $1,980,981,000, 27% higher than a year ago.

Cumulative construction contract value for the first five months of 1971 totaled $31,010,363,000: Nonresidential, $9,892,611,000, down 5%; Residential, $12,685,359,000, up 36%; Nonbuilding, $8,432,393,000, up 4%. This year's 5-month total was 11% above that for the same period in 1970.

1971 Outlook—In a recent up-dating of the "1971 F. W. Dodge Construction Outlook," Mr. Christie raised his previous estimate of 1971's construction potential. Faced by a big advance in housing, a 13% gain is expected in total contract value. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

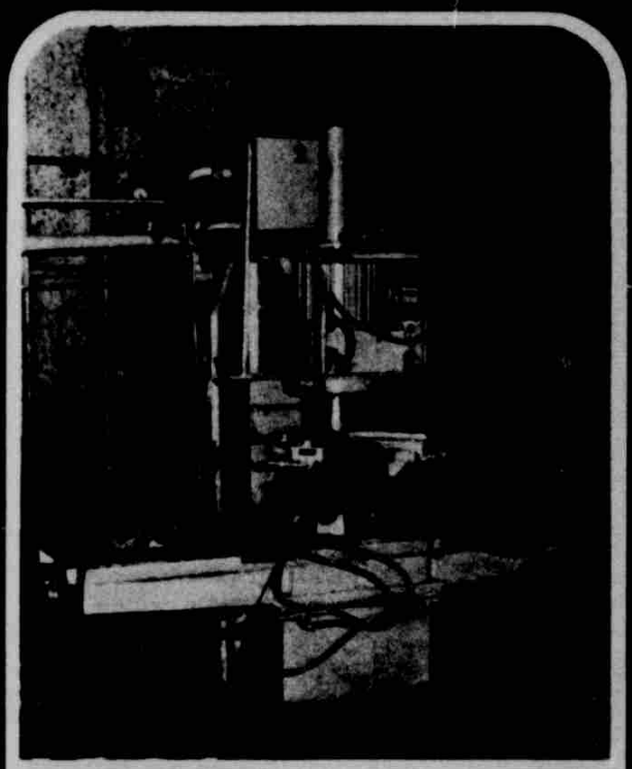
MOTOR VEHICLE FACTORY SALES

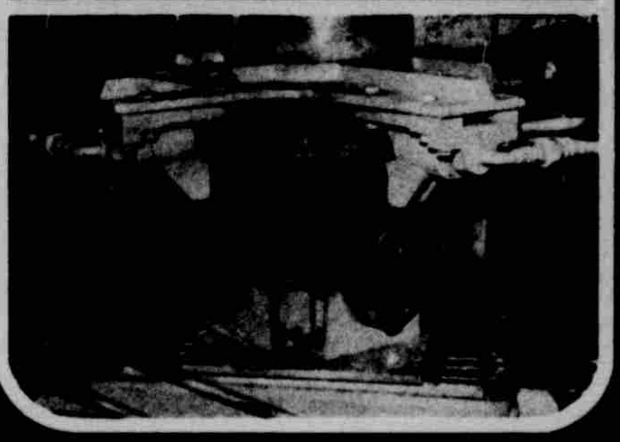
APRIL 1971 motor vehicle factory sales from plants in the *United States* totaled 921,636 (passenger cars—750,400; trucks and buses—171,236). The cumulative total for the First Four Months of 1971 was 3,761,614 compared with 2,992,778 for the same period in 1970.

Motor vehicle factory sales from plants in *Canada* totaled 122,079 in April 1971. The cumulative total from January-April 1971 was 475,419 against 455,529 for the like period in 1970. [Automobile Manufacturers Association]

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RIVA-CALZONI
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PRODUCTION—IMPORTS—EXPORTS

Australia—The following statistics were issued by the Bureau of Mineral Resources, Geology and Geophysics, Canberra, and cover the period *January-June 1970.*

Production of Chrysotile asbestos, all in New South Wales, totaled 408 short tons.

Imports reached 31,459 short tons, valued at $4,470,000: Chrysotile, 25,837 tons, valued at $3,813,000; Amosite, 4,641 tons, valued at $572,000; and Other Types, 981 tons, valued at $85,000.

Exports of All Types and Grades amounted to 242 tons, valued at $67,000.

Canada—Producers' shipments of asbestos during *March 1971* totaled 131,891 short tons (106,815 tons from Quebec plants and 25,076 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for March 1970 was 121,164 tons.

The cumulative total for *January-March 1971* reached 329,765 tons, compared to 303,562 tons during the same three-month period of 1970. [Dominion Bureau of Statistics, Ottawa]

Cyprus—Production of asbestos during the *First Quarter of 1971* totaled 4,884 short tons, valued at £278,390. [Mines Department, Ministry of Commerce and Industry, Nicosia]

Republic of South Africa—The Department of Mines, Johannesburg, issued the following production and export statistics for asbestos for the *Year 1970.*

Production of asbestos totaled 287,416 metric tons (Amosite, 97,380 tons; Cape Blue, 131,812 tons; Chrysotile, 52,801 tons; Transvaal Blue, 5,423 tons). The total for the Year 1969 was 258,174 tons.

Exports of asbestos reached 255,802 metric tons, valued at R31,474,145, compared to 233,750 tons, valued at R28,801,897, for the previous year. The breakdown of the total for 1970 is as follows: Amosite, 95,002 tons, R10,614,773; Cape Blue, 123,016 tons, R17,487,-710; Chrysotile, 32,992 tons, R2,607,515; Transvaal Blue, 4,792 tons, R764,147.

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

FEBRUARY 1971

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	1,228	$ 235,678
Non-Spinning Fibers	s. tons	1,631	229,317
Waste & Refuse	s. tons	1,682	178,629
		4,541	$ 643,624
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,838,748	$ 292,039
Other Asbestos-Cement Articles	Lb	440,119	74,647
Asbestos Gaskets	Lb	41,052	69,468
Asbestos Packing	Lb	376,359	622,853
Asbestos Heat or Sound Insulation		..	202,611
Asbestos Textiles & Yarns	Lb	1,152,496	218,848
Asbestos Protective Clothing		..	8,461
Mfrs. Other Than Friction Materials		..	174,969
Clutch Facings & Linings for Auto. Use.	No	89,209	90,962
Clutch Facings & Linings, Other	No	81,627	30,503
Brake Linings for Automotive Use	Lb	526,066	353,823
Asbestos Brake Linings, Other	Lb	170,677	134,908
			$ 2,274,092

EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics

FEBRUARY 1971

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,401	27,209	11,675
Eastern Europe	..	15	1,431	450
Middle East	..	221	560	340
Africa	..	..	650	1,627
Asia	2	189	7,189	6,607
Oceania	..	..	6,089	1,811
So. & Cen. America & Antilles	..	136	7,303	1,595
United States	6	1,005	16,243	30,574
	8	2,967	66,674	54,679

The total amount of unmanufactured asbestos exported in *February 1971* was 124,328 short tons, valued at $19,250,000.

Manufactured Asbestos Goods:	
Asbestos Brake Lining & Facings	$ 65,000
Asbestos-Cement Building Materials	308,000
Asbestos Basic Products, Other	127,000
	$ 500,000

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BIRTHDAY GREETINGS TO . . .

Richard B. Hazard, Vice President-Rubber & Packing Sales, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, August 17.

Mrs. Joan Holtze, Corporate Secretary, North American Asbestos Corporation, Chicago, Illinois, August 18.

Daniel L. Juhl, President, Raybestos-Manhattan (Canada) Ltd., Peterborough, Ontario, Canada, August 18.

Albert H. Fay, Vice President-Research & Marketing, National Gypsum Company, Buffalo, New York, August 19.

R. G. Soothill, Honorary President, Turner & Newall Ltd., London, England, August 19.

William D. Raddatz, President, Amsco Division, Abex Corporation, New York City, August 20.

Harry O. Christianson, Vice President-Special Assignments, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, August 23.

M. Thompson, Secretary, Scapa Group Ltd., Blackburn, Lancashire, England, August 23.

John Dowling, Secretary-Treasurer, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, August 26.

Allan E. Daly, Vice President-Automotive Sales, Scandura Inc., Charlotte, North Carolina, August 31.

Richard W. Hunt, Vice President, Asbestos Distributors, Inc., Port Chester, New York, August 31.

V. Eugene Petrie, Director of Engineering, Panacon Corporation, Cincinnati, Ohio, August 31.

J. J. Spangenberg, Treasurer, Johns-Manville Corporation, New York City, August 31.

Harold McNabb, President, Pipe & Plastics Group and Vice President & Director, Certain-teed Products Corporation, Valley Forge, Pennsylvania, September 1.

L. D. Norton, Director, Turners Asbestos Cement Company Ltd., Trafford Park, Manchester, England, September 1.

Michael J. Scanlan, Vice President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, September 1.

Adam M. Wyant, Secretary, National Gypsum Company, Buffalo, New York, September 1.

Alexander J. Gillespie, Jr., Secretary & General Counsel, American Smelting and Refining Company, New York City, September 2.

J. P. McCormick, Managing Director, Turners Asbestos Cement (Northern Ireland) Ltd., Ballyclare, Ireland, September 2.

William C. O'Brien, General Sales Manager, Industrial Products Division, GAF Corporation, New York City, September 2.

John B. Swaney, Controller, Asbestos Corporation of America, Garwood, New Jersey, September 4.

M. Ward Burleson, Vice President & General Manager, Industrial Insulations Division, Johns-Manville Corporation, New York City, September 7.

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20124 MILANO (Italy)
TELEX 32293

J. L. (Jerry) Mitchell, Textile Consultant, Charlotte, North Carolina, September 7.
F. M. Connell, Member of Advisory Committee, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, Canada, September 9.
Robert H. Cuje, Vice President & General Manager, Architectural & Engineered Products Division, Johns-Manville Sales Corporation, New York City, September 9.
R. W. Little, Plant Manager, British Canadian Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, September 10.
J. J. Lees, Mill Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, Canada, September 12.
W. B. Coetzer, Director, Msauli Asbes Ltd., Johannesburg, South Africa, September 13.
Robert W. Winson, Manager, Reeves Mine, Canadian Johns-Manville Company Ltd., near Timmins, Ontario, Canada, September 13.
Fred L. Pundsack, Vice President-Research & Development, Johns-Manville Corporation, New York City, September 14.

ACTION ON STANDARDS

Abrasive Wheel Safety Code—Revision of the Safety Code for The Use, Care and Protection of Abrasive Wheels (B7.1); approved December 29, 1970, by the American National Standards Institute. [Grinding Wheel Institute]

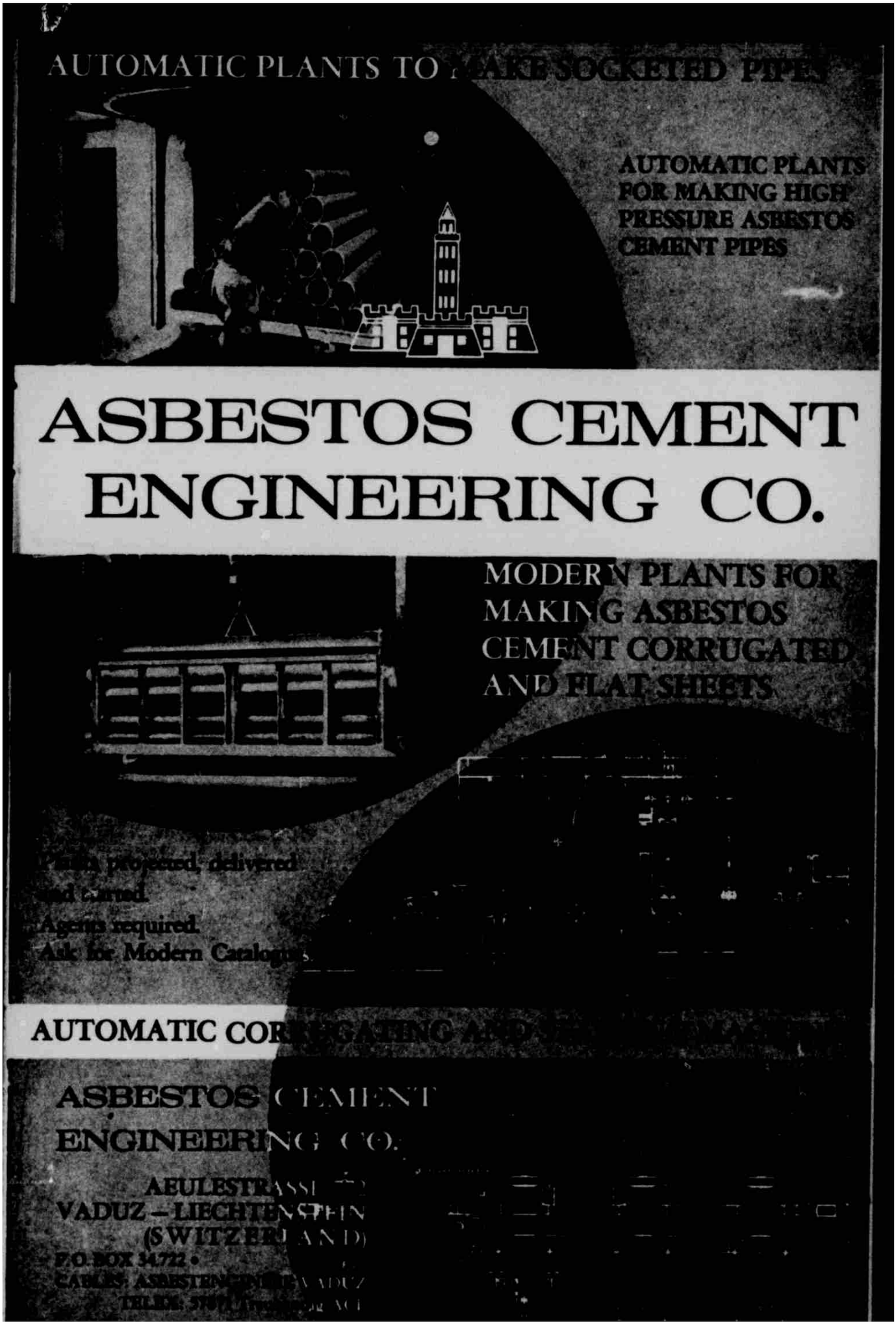
Canadian Standards—Annual Index of Standards as of January 1971 and Cumulative Supplement to the Annual Index of Standards as of March 31, 1971. [Canadian Government Specifications Board]

Indian Standards—Methods of Test for Preformed Block-Type and Pipe-Covering-Type Thermal Insulation, IS:5688-1970, R3.50; and Method of Test for Tensile Strength of Asbestos Fiber, IS:5748-1969, R2.00. [Indian Standards Institution]

Life Safety Code—Code for Safety to Life from Fire in Buildings and Structures; used in conjunction with building codes and as the basis for laws and regulations protecting the public from fire in buildnigs. [National Fire Protection Association; NFPA No. 101; 22nd edition; $2.00]

Mobile Home Standard—Tentative Interim Amendment Number 2 to the Standard for Mobile Homes; based on the recognition that material on structural rigidity testing of mobile homes appearing in the current standard is neither acceptable nor applicable to mobile homes as now constructed. [National Fire Protection Association; effective January 1, 1971]

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MODERN PLANTS FOR MAKING ASBESTOS CEMENT CORRUGATED AND FLAT SHEETS
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NOTES FROM 1970 ANNUAL REPORTS

CASSIAR ASBESTOS CORPORATION LTD.

Net profit in 1970 for Cassiar Asbestos Corporation Ltd. totaled $7,140,312 compared to $6,662,923 in 1969. Earnings per share were $1.31 in 1970 and $1.27 in 1969. Total revenue reached $41,925,416. Fiber sales rose to a new high of 196,387 tons in 1970, valued at $41,321,623.

Cassiar Mine expenditures included $1,307,901 for plant and equipment renewal, $5,270,593 for mill expansion and $3,516,559 for waste removal. During the year under review 4,269,300 tons of waste were removed from the orebody. A total of 917,633 tons of ore were mined of which 900,090 tons were treated in the rock rejection plant to eliminate 222,154 tons of rock. Shear blasting in the hanging wall waste continued to prove successful and the slope of the pit walls is gradually being steepened to about 45°. The mill treated 689,388 tons of ore and concentrate and produced 85,871 tons of fiber.

Probable ore reserves within presently planned pit limits and to a depth of 340 feet below the lower adit are estimated at 23,000,000 tons. A diamond drilling program will be carried out in 1971 to test the ore zone to a depth of 700 feet below the adit and to confirm the location and attitude of the hanging wall and footwall contracts.

Clinton Mine capital expenditures for plant and equipment amounted to $2,676,365 and waste removal cost $2,073,600. During the year, 1,480,522 tons or ore were mined and delivered to the mill. The rock rejection plant was by-passed for most of the year and only 144,611 tons of rock were rejected. Preliminary tests indicate that further crushing of the ore will permit full-time use of the rock rejection circuit which, in turn, will provide additional mill capacity. A total of 4,536,738 tons of waste were removed at a cost of $2,073,600. The mill treated 1,335,087 tons of ore and produced 104,386 tons of fiber. Although the spinning circuit proved useful in maintaining the quality of the regular grades, little spinning fiber was produced since most of the ore was from the lower grade footwall zone.

Probable ore reserves to a depth of 200 feet below the adit are estimated at 20,500,000 tons. A diamond drilling program will be carried out in 1971 to outline in more detail the probable ore reserves in the Bear Creek extension and to further investigate a zone lying below the planned pit limits in which a few holes from earlier drilling returned low grade ore sections.

The Transport Division will undergo some changes due to an announcement that the Pacific Great Eastern Railway will have a line into Dease Lake by late 1974 and the line to Fort Nelson will be completed by the fall of 1971.

Asbestos Wharf/North Vancouver—Cassiar Asbestos and the White Pass and Yukon Route have jointly acquired an additional six acres of land adjoining the Asbestos Wharf property on the east. The acreage will provide sufficient space to meet the changing conditions that will result from the rail movement via Dease Lake and from a

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SALE OR LEASE

Chaparral Hill Area

194 acres, unimproved,

Tuolumne County, Sonora, Calif.

A geology study made in 1961 indicates the entire deposit is estimated to contain 4,750,000 tons of recoverable asbestos.

●

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Baltimore, Maryland 21201

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probable increase in containerization of overseas shipments.

Kutcho Creek Asbestos Company Ltd.—The trenching and geological work completed in 1970 indicated the fiber content of the southeast and northwest anomalous zones located in 1966 was very low and not of commercial grade. In the main showing, the two zones which were thought to be separated by a band of waste have been shown by trenching to be one zone. This has enhanced the tonnage potential but grade determination will have to await further diamond drilling and underground adit development, tentatively planned for the summer of 1972.

CERTAIN-TEED PRODUCTS CORPORATION

Net sales reported by Certain-teed Products Corporation for the year 1970 were $253,644,455 compared to $233,452,797 in 1969. Net income totaled $945,291 or four cents per share against $6,705,,739 or $1.35 per share in the previous year. Retained earnings at the end of 1970 amounted to $54,400,019.

Beneficial Use of Problem Wastes—Control and disposal of solid wastes is a matter of major concern in improving the environment. T-A Materials, Inc., Palisades Park, New Jersey, a majority interest in which was acquired by Certain-teed early in 1971, has perfected a method of manufacturing high-quality building blocks, bricks and tiles from waste materials such as sand, industrial waste and "frit" (the residue remaining after garbage has been burned in a high-temperature incinerator).

Total Corporate Involvement—Certain-teed has gradually evolved from a company that manufactured and distributed a limited line of building products to a company with unusual capabilities to fulfill U.S. housing and construction needs. Plans are currently underway to acquire substantial acreage near a major metropolitan area for the development of a new community. The newly-formed Urban Development Group is responsible for locating the acreage, planning for efficient land usage, creating a development plan, evaluating profit potential and financial requirements, and programming the construction of a complete urban community. Playing an important part in the function of the Group is Realtec, Inc., a land development firm in Fort Lauderdale, Florida, acquired by Certain-teed in 1970. Realtec and Modular Sciences, Inc., another Certain-teed subsidiary, will develop the property.

One of the first steps will be to install water and sewer systems and underground power and telephone lines. This will be accomplished by laying pipe using Certain-teed's Badger System. The pipe (asbestos-cement, PVC and underground conduit) will be supplied by Certain-teed's Pipe & Plastic Group. The sewage disposal system will be supplied by Nayadic Sciences, Inc., a company also associated with Certain-teed. The variety of structures will require roofing, siding, sheathing, doors, windows, masonry products, carpeting and a host of other products from Certain-teed's Shelter Materials Group. Certain-teed Saint Gobain Insulation Corporation will supply the insulation, acoustical ceilings, bathroom fixtures and air ducts.

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ASBESTOS STOCK QUOTATIONS

CLOSE—JUNE 22, 1971

Abitibi Asbestos	*$5.00
Advocate Mines	*$2.30
Allied Mining	*$3.55
Asarco	24
Armstrong Cork	34¼
Armst Cork. (pfd 3.75)	56
Asbestos Corporation	*$34.50
Bendix	37¼
Bendix (pfd 3)	59½
Carlisle	15¾
Cassiar Asbestos	*$23.00
Cerro Corporation	16
Certain-teed	28
C-teed (pfd .90)	27¾
Conwest	*$10.625
Flintkote	25⅝
F-kote (pfd-A 4.50)	77¼
F-kote (pfd-B 2.25)	33¼
GAF Corporation	12½
GAF (pfd 1.20)	21⅛
Garlock	16¼
Grace	29⅝
Gulf & Western	26½
G&W (pfd 1.75)	88¼
G&W (pfd 3.50)	111
G&W (pfd 3.87)	55½
G&W (pfd 5.75)	64⅜
Illinois Central	35¾
Ill. Central (pfd 3.50)	59½
Johns-Manville	37¾
Maremont	15
National Gypsum	20⅜
Natl Gypsum (pfd 4.50)	64½
Pacific Asbestos Ltd.	*$1.46
Panacon	3¾
Porter (pfd 5.50)	70
Raybestos-Manhattan	26
Royal Industries	10
Unarco	13½
Union Carbide	45¾
Uniroyal	20⅝
Uniroyal (pfd 8)	104
United Asbestos	4-13/16

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)

TRADE OPPORTUNITIES

Italy—Stimamiglio F. & C., Viale Navigazione Interna 54, Zona Industriale, Padova, is interested in the direct purchase of thermal and acoustic insulation for the building industry and of boards for false ceilings. The firm has an estimated annual turnover of between $10,000-$50,000 and would also consider being an agent for a U.S. company.

England—A civil engineering contractor is seeking arrangements with U.S. companies for the manufacture under license in the United Kingdom of prefabricated industrialized building systems. The company has 1150 employees, was established in 1930 and has a nominal capital of £1,025,000 and an issued capital of £1,003,500. Contact Mr. R. S. Bamber, Rush & Tomkins Group Ltd., Marlowe House, 109 Station Road, Sidcup, Kent.

The Netherlands—A medium-sized distributor and manufacturing firm is anxious to expand its present product range. The materials concerned are asbestos insulating materials, heat insulating materials for boilers and pipes, molded asbestos insulation and laminated asbestos insulation paper. Contact Mr. J. T. van de Waarde, Chamotte Unie N.V., P. O. Box 2, Geldermalsen.

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ASBESTOS PRICES

ARIZONA

PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA

(AS OF AUGUST 1, 1968)

	U.S. DOLLARS
No. 1 Crude	$1410.00 — $1650.00
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 2000 LBS., F.O.B. MINE

(AS OF JULY 1, 1971)

	CANADIAN CURRENCY
Crude No. 1	$ .. — $1615.00
Crude No. 2	.. — 875.00
No. 3 (Spinning Fiber)	412.00 — 675.00
No. 4 (Asbestos-Cement Fiber)	227.00 — 383.00
No. 5 (Paper Fiber)	164.00 — 195.00
No. 6 (Paper & Shingle Fiber)	.. — 120.00
No. 7 (Shorts)	52.00 — 100 00

CASSIAR

PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

(AS OF JANUARY 1, 1971)

	CANADIAN CURRENCY
AAA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	$ 877.00
AA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	697.00
A Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	529.00
AC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
CC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
AK Grade (Asbestos Cement Fiber/Canadian Gp 4)	263.00
CP Grade (Asbestos Cement Fiber/Canadian Gp 4)	248.00
AS Grade (Asbestos Cement Fiber/Canadian Gp 4)	228.00
CT Grade (Asbestos Cement Fiber/Canadian Gp 4)	223.00
AX Grade (Asbestos Cement Fiber/Canadian Gp 5)	208.00
CY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00
AY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00

VERMONT

PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT

(AS OF JANUARY 1, 1971)

	U.S. DOLLARS
Group No. 3 (Spinning & Filtering Fiber)	$ 380.50 — $ 408.00
Group No. 4 (Shingle Fiber)	208.00 — 353.50
Group No. 5 (Paper Fiber)	150.00 — 176.50
Group No. 6 (Waste)	.. — 108.50
Group No. 7 (Shorts, Floats)	43.50 — 90.50
Group No. 8 (Shorts)	.. — 29.00
Hooker No. 1 (Packaged in 50-lb. Woven Poly. Bags)	— 416.00
Hooker No. 2 (Packaged in 100-lb. Woven Poly. Bags)	— 208.00

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MEN ON THE MOVE

AMERICAN SMELTING & REFINING COMPANY

Forrest G. Hamrick, formerly Vice President-Finance, was named Executive Vice President-Finance and will be the chief financial and planning officer. He joined Asarco in 1946.

Simon D. Strauss is now Executive Vice President-Commercial. He began with the company in 1946 and most recently was Vice President-Sales.

THE FLINTKOTE COMPANY

J. L. Gordon and **Monte C. Carpenter** were elected as new Directors to fill the vacancies created by the resignation of R. McLean Campbell and the death of Paul Abbott. Mr. Gordon is Vice President and General Manager of Flintkote's Stone Products Group and Mr. Carpenter is Vice President and General Manager of the company's Building Products Group.

JOHNS-MANVILLE CORPORATION

William L. VanDerbeek was appointed Vice President of the Mining and Canadian Products Divisions. He began his career with J-M in 1939 as an industrial engineer.

William P. Raines was named to fill the newly-established position of Director of Public Affairs and was appointed a Vice President of J-M Sales Corporation. He will be responsible for environmental health relations and corporate public affairs as well as the management of contributions and aid-to-education activities including the J-M Fund. He joined J-M in 1965 as Director of Public Relations, his most recent position.

RAYBESTOS-MANHATTAN, INC.

Dr. E. P. Stefl, former Group Vice President-Operations, was appointed to the newly-created position of Vice President-Administrative Assistant to the President. Part of his responsibility will be R/M's Cassiar asbestos program and representation for the President in the Asbestos Information Association/North America.

Frederick S. Daly will continue as Vice President-Manufacturing. He will be responsible for meeting cost reduction goals and all domestic and Canadian manufacturing divisions will report to him.

Daniel L. Juhl was named President of Raybestos-Manhattan (Canada) Ltd. Prior to this appointment he was General Manager of the Canadian subsidiary.

Roy A. Jann will report to the President as the new Vice President-Sales.

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PACIFIC ASBESTOS CORPORATION

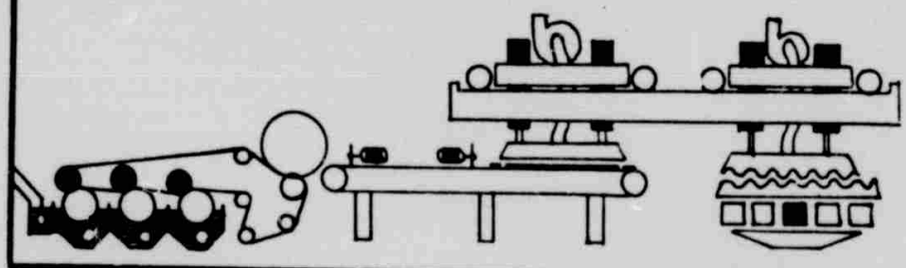
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BOOKS, ARTICLES & PAPERS

ASTM Articles—High Performance Fiber Composites, by A. M. Lovelace, and Fiber Reinforcements for Structural Composites, by J. H. Ross. [Materials Research and Standards, May 1971]

Good Roofing Series—three Technical Bulletins on Upside Down Roofs, Roofing Over Steel Decks, and Roof Mounted Equipment. [Canadian Roofing Contractors Association, Suite 1004, 1010 St. Catherine Street West, Montreal 110, Quebec]

Slope Stability Symposium—Proceedings of the 1970 Symposium on the Theoretical Background to the Planning of Open-Pit Mines with Special Reference to Slope Stability. [R25, about US $35.70; order from the Secretary, South African Institute of Mining and Metallurgy, P. O. Box 69019, Marshalltown, South Africa]

U.S. Industrial Outlook 1971—pinpoints business activity levels for major industries in the U.S. economy in 1971, 1975 and 1980. [$5.00 per copy, includes The Economy at Mid-Year 1971 with industry projections for 1972; Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402]

The U.S. Market for Canadian Minerals—paper presented by H. C. Armstrong to the Toronto Branch of the Canadian Institute of Mining and Metallurgy. [CIM Bulletin, March 1971]

TECHNICAL DOCUMENTS—The following Technical Documents are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22151. Cost per paper copy is designated at the end of each listing. Microfiche reproduction is priced at 95c per document. Prepayment is required. Please specify Report Number when ordering.

AD 709 218—Advanced Modular Shelters for Small and Medium Size Shelter Applications, by J. M. Alexander et al., University of Cincinnati, Cincinnati, Ohio, for the U.S. Air Force. [$3.00]

AD 713 201—Field Fabrication of Continuous Lightweight Reinforced Plastic Pipe, Phase I: Literature Search, by A. E. Molzon, Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, New Jersey. [$3.00]

PB 190 572—A Study of Water Pollution Control in the Textile Industry of North Carolina, by D. I. Gramley, North Carolina Water Resources Research Institute, Raleigh, North Carolina, for the Office of Water Resources Research. [$3.00]

PB 190 788T—Commentary in Soviet Periodicals on Environmental Pollution, Joint Publications Research Service, Washington, D. C., translated from Russian. [$3.00]

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World Wide CONSULTING SERVICES

Working on asbestos projects since 1946, SNC and its associate GECO have grown up with the industry, becoming one of the few consulting organizations with extensive experience in this specialized field.

PROJECTS INCLUDE:

Canada:	Advocate, Baie Verte, Newfoundland Johns-Manville, Mill No. 5, Asbestos, Quebec Johns-Manville, Reeves, Ontario Carey-Canadian, East Broughton, Quebec Flintkote, Thetford Mines, Quebec
Australia:	Woodsreef Chrysotile Corp., Barraba, N.S.W.
South Africa:	Msauli, Barberton
West Germany:	Asbestos Corporation, Nordenham

Feasibility studies have been carried out in Australia, Bolivia, Turkey, Canada, Greece and Mexico.

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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittance should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be shown.

British 1,225,037—Grinding wheels are formed from a mixture of resin, industrial diamonds, copper powder and 8-46% by weight of asbestos fiber as a reinforcing filler; J. W. E. Tride & F. A. L. Turner; assigned to Norton Abrasives Ltd., March 17, 1971; 2 pages.

British 1,225,402—A friction composition of low cost and improved wearing qualities consists of about 50% by weight of iron sand, 24% of a phenolformaldehyde resin, 10% of asbestos, 8% of barite, 6% of polymer of cashew nut shell oil and 2% of lead oxide; assigned to Toyota Central Research & Development Laboratories, Inc.; March 17, 1971; 6 pages.

British 1,227,445—A composition for forming drainage pipe consists of an aqueous mixture of optimum proportions of waste newsprint, asbestos, fly ash, pelleted pitch and optionally diatomite; the mandrel-wound pipe is impregnated with hot pitch; W. L. Hunter, A. J. F. Oxenham & B. J. Hanks; assigned to Reed Paper Group Ltd., April 7, 1971; 3 pages.

Canadian 868,312—A synergistic thickener for polyesters, resin, paraffin oil and the like consists of 20-95% by weight of colloidal Chrysotile, Crocidolite or Amosite asbestos and 5-80% of pyrogenic silica or silica aerogel of optimum surface area; A. Asgeirsson; assigned to Cabot Corporation; April 13, 1971; 11 pages.

Canadian 869,015—In the production of strand materials, an aqueous dispersion of asbestos and sodium alginate is extruded into a coagulating bath where the alginate is congealed, the formed strand partly dewatered in rolls and the dewatered strand twisted and wound; I. Barnett & G. P. Reimschussel; assigned to Johns-Manville Corporation; April 20, 1971; 26 pages.

U.S. 3,576,708—Articles of improved dielectric strength are formed from a mixture of asbestos, a binder and exfoliated vermiculite; R. C. Breiner; assigned to Nicolet Industries, Inc.; April 27, 1971; 3 pages.

U.S. 3,576,940—A multiple-wrapped electrical conductor wire or cable is wrapped last with a layer of braided asbestos impregnated with an intumescent compound to form an assembly that resists open flame temperatures of over 1000°F without shredding or burning; J. G. Stone, G. S. Buettner & C. A. Alm; assigned to Cerro Corporation; May 4, 1971; 6 pages.

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CALENDAR OF EVENTS

Elements of Mining II—Pennsylvania State University, University Park, Pennsylvania; *August 2-4.*

Concrete & Reinforced Concrete in Hot Countries—The RILEM International Symposium, Haifa, Israel; *August 2-5.*

Education & Training Conference and Equipment Exposition—American Management Association, New York Hilton, New York City; *August 3-5.*

Mine Systems Engineering—Pennsylvania State University, University Park, Pennsylvania; *August 16-18.*

Soft Ground Construction—Massachusetts Institute of Technology, Cambridge, Massachusetts; *August 23-September 1.*

Physics & Chemistry of Asbestos Minerals—2nd International Conference, Institute of Earth Sciences, Louvain University, Belgium; *September 6-9.* [Direct requests for registration forms to B. Lincoln, Turner & Newall Asbestos Fibre Laboratory, P. O. Box 22, Trafford Park, Manchester M17 1RU, England]

International Bari Levant Fair—34th annual general fair; Bari, Italy; *September 9-20.*

International Engineering Fair—Brno Trade Fairs & Exhibitions, Brno, Czechoslovakia; *September 11-20.*

Acoustics & Noise Control in Buildings—Pennsylvania State University, University Park, Pennsylvania; *September 12-17.*

Noise & Vibration Control Seminars—sponsored by Bolt Beranek & Newman Inc., *September 8-10* or *13-14* in Montreal, Quebec, and *September 22-24* or *27-28* in Toronto, Ontario.

International Geochemical Exploration Symposium—4th like event organized by The Institution of Mining & Metallurgy; will be held April 17-20, 1972, at the Institution of Electrical Engineers; synopses of papers should be submitted to the Editor of IMM, 44 Portland Place, London WIN 4BR, England, before *September 15.*

Kunststoffe '71 (Plastics Trade Fair)—opportunity for U.S. firms to display the latest developments in plastics machines and tools, semi-finished goods and raw materials, Dusseldorf, Germany; *September 16-23.*

Dust Control & Air Cleaning Exhibition—organized by Technology Exhibitions Ltd., will be held at Olympia, London, England; *September 28-October 1.*

ASTM Committee D-30 on High Modulus Fibers & Their Composites—ASTM Headquarters, Philadelphia, Pennsylvania; *September 27-28.*

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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

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Remember When?

(July 1921 ASBESTOS)

New Advertisers:

Mikesell Brothers Company

Paterson Asbestos Mfg. Co.

This issue contained a short biography of Charles Francis Sloane, the man who was largely responsible for the development of the Arizona asbestos mining industry.

In an article discussing tariffs on imports being considered by the U.S. Congress comparative weekly wage rates for weavers were quoted as follows: United States—$39.00, Germany—$4.35, Japan—$6.00, England—$17.70 and Belgium—$9.63.

And, speaking of wages and prices, the building trades and their employers were negotiating **decreases** in wages on the order of up to 17% below those of 1920. At the same time, statistics indicated the cost of living had declined approximately 30% in Philadelphia, Chicago and Cleveland; 41% in New York; and 46% in Detroit during the period April 1920 to April 1921.

E. H. Garcin, who had recently resigned as President of Asbestos & Rubber Works of America, was re-elected to the Presidency of that company.

The Underwriters' Laboratories was reported to have published a Heater Cord Standard containing a highly detailed specification for Asbestos Jacketing for such cords.

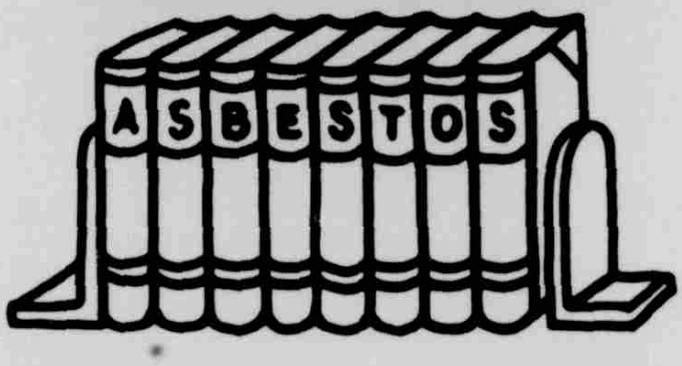
It was reported that the Asbestos Mine Operators of Thetford and vicinity had decided to construct a new, thoroughly modern golf course at Thetford.

A delegation of asbestos mine operators met with the Prime Minister of Quebec in June to urge revocation of the 5% Royalty Tax, imposed by the Province on exports of asbestos.

Johns-Manville, Inc., announced its decision to proceed with construction and equipping of its new plant at Waukegan, Illinois, at an estimated cost of $6 million.

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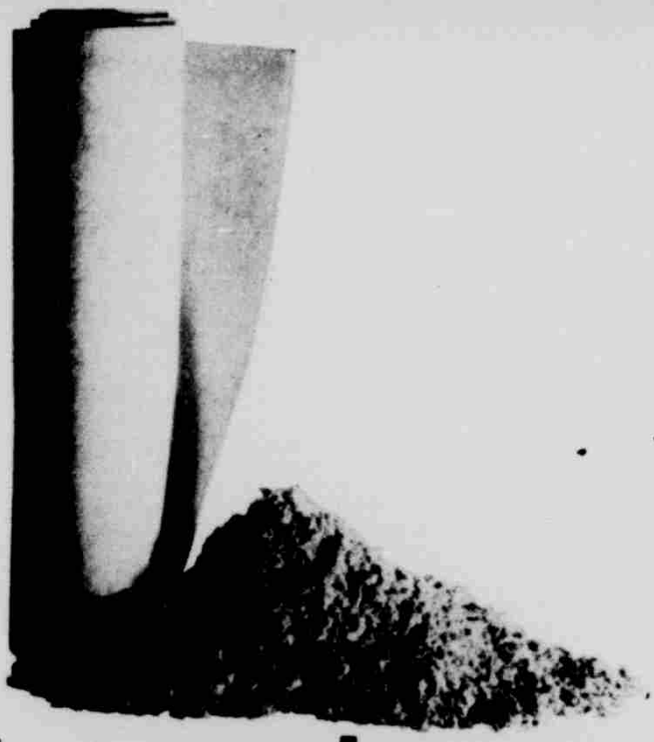
For samples and data contact the warehouse nearest you or write Dept. 00-0000, Carey-Canadian Asbestos, Division of Panacon Corp., P.O. Box 15070, Cincinnati, Ohio 45215.

Carey

Warehouse stocks at:

Atlanta, Thompson-Hayward Chem. Co.
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.
Huntsville, Ala., Thompson-Hayward Chem. Co.
Indianapolis, Thompson-Hayward Chem. Co.
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Nashville, Thompson-Hayward Chem. Co.
New Orleans, Thompson-Hayward Chem. Co.
Oklahoma City, Thompson-Hayward Chem. Co.
Omaha, Thompson-Hayward Chem. Co.
Philadelphia, George A. Rowley & Co., Inc.
Pittsburgh, McCann-Shields Paint Co.
Portland, Durkin Chemicals, Inc.
Seattle, Durkin Chemicals, Inc.
Shreveport, Thompson-Hayward Chem. Co.
St. Louis, Thompson-Hayward Chem. Co.
San Francisco, E. S. Browning Co.
Tampa, Thompson-Hayward Chem. Co.
Trenton, N. J., H. M. Royal, Inc.
Tulsa, Thompson-Hayward Chem. Co.
Wichita, Thompson-Hayward Chem. Co.
Winchester, Mass., W. D. Egleston Co., Inc.

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Two good starts...

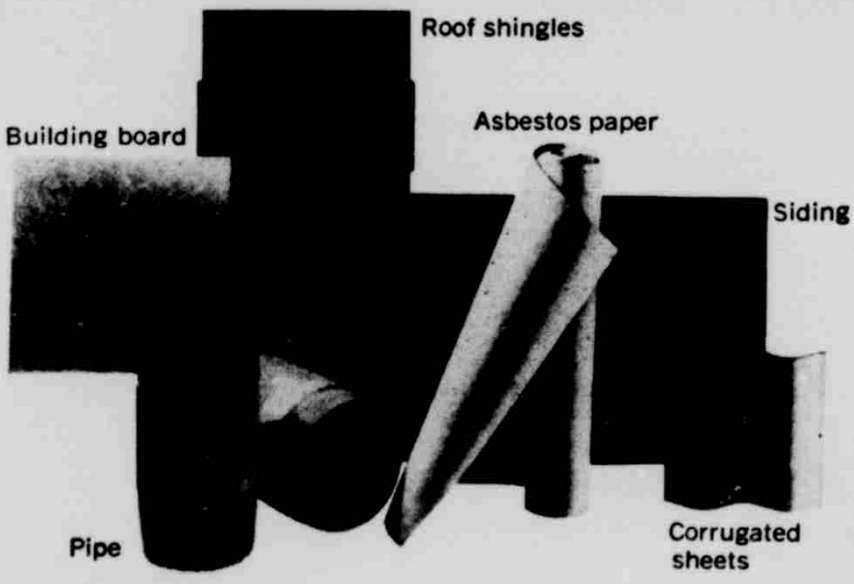
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Our involvement with asbestos fiber starts at our own Vermont mines. We control the quality from start to finish. And our standards are high. Partly for selfish reasons. Because much of the fiber ends up in our own asbestos products.

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