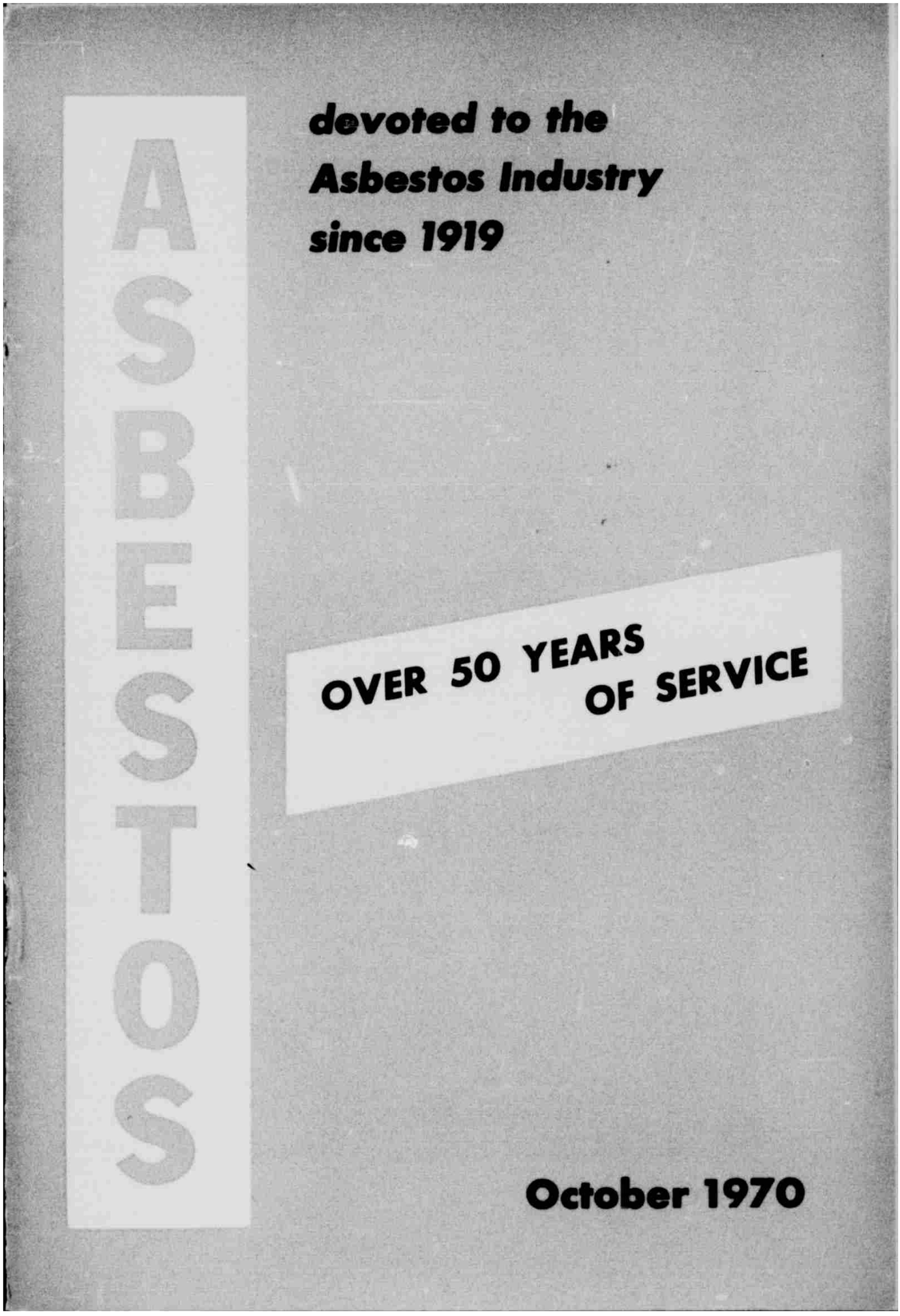
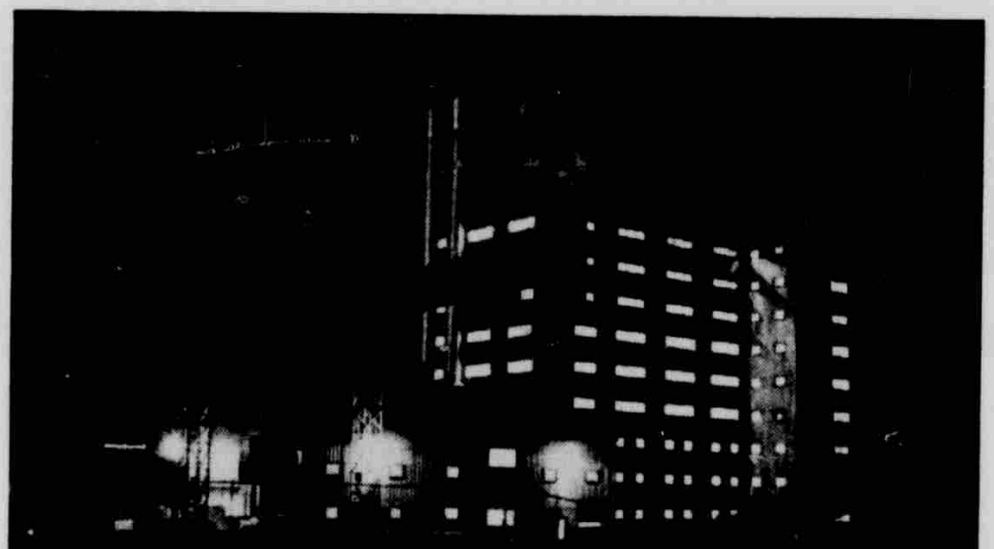


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ASBESTOS

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QAMA HOSTS YOUR EDITOR

The plane landed on schedule at Montreal International Airport and I was met by Mr. John A. Gossip, Director of Information Services with the Quebec Asbestos Mining Association. Thus began an extensive tour, hosted by QAMA, through some of the large asbestos mining and milling complexes in the Province of Quebec.

Phase I, a visit to the Jeffrey Mine and No. 5 Mill of Canadian Johns-Manville Co. Ltd., began at the office of Yvan Couture, Director of Public Relations, who briefed us on the tour and introduced many C.J-M people including Gerry Pichě, Senior Project Engineer, and Marc Gosselin, Community Relations Manager, who was later to show us the Jeffrey crushers.

I donned my "hard hat" (which was to be an official part of the dress throughout the entire 2-day visit in Quebec) and began the tour under the capable direction of James A. Goodwin, Manager-in-Training. We proceeded to the garage and were shown the washing areas, saw expert mechanics at work and were privileged to see Jeffrey's first of four 200-ton trucks. Yours truly, who stands about 5'6", was just about at eye-level with the axles of the immense vehicle. It was interesting to notice the three sections of the garage—with each roof higher than the preceding roof. As Jim Goodwin put it, "The garage grew as 'Topsy' grew!"—constructed in stages to accommodate first the smaller trucks, then the 100-ton trucks and finally the 200-ton vehicles.

Upon boarding a bronco (jeep), we headed toward the next destination—the perimeter of the huge, 800-foot deep open pit. The birds-eye view permitted an overall picture of the entire pit operation including the many ore-hauling trucks, power shovels, air drills, surveying techniques and the laying of the groundwork for future rock blasting. We wended our way into the mine and drove down to the bottom of the pit, thus permitting excellent "close-ups" of asbestos fiber veins in the rock as well as of mining equipment and processes "in action."

The next guide, John Kirstein, took us through the modern, amazingly dust-free, 12-story asbestos mill. Mr. Kirstein pointed out and explained the function of each piece of machinery in the mill. First, the fans and nylon filter-bags

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that are parts of the elaborate systems for removal of asbestos dust from the air. Then through the airlock and on to view the variety of operations involving drying, fiberizing, screening, aspirating, grading, testing, classifying, bagging and so forth.

We proceeded, under the expert guidance of Marc Gosselin, to the primary crushing operation, situated at the edge of the pit. The ore is carried up a skipway, fed into the "hungry and ill-mannered" jaw crushers, and is then processed through secondary and tertiary crushing.

From the crushing plant we sighted the area where the explosives had been strategically placed earlier in the day. Suddenly—sirens sounded and then there was silence, followed by a rushing bright "ribbon" of flame and then the blast, toppling thousands of tons of rock and making available a fresh supply of ore for hauling. It was an exciting event to behold!

During the day we saw the first stages of construction of C.J-M's new manufacturing plant, the present surface facilities and the site of the "new home" for these facilities, all of which, except the mill, are to be relocated as part of the company's $75 million, 5-year mining program now in progress. According to Yvan Couture, the program is designed to provide optimum flexibility in ore availability; to sustain an optimum annual rate of removal of ore, waste and overburden; and to level off the production of asbestos fiber.

It was, all in all, a most informative day, thanks to the interest of and the many courtesies extended by so many of the men at Canadian Johns-Manville.

Soon we were on our way to Thetford Mines. Enroute, we detoured for a roadside view of Lake Asbestos' open-pit mine. I paused for a moment to mentally recall what I had read of the earlier days of this property (prior to 1954) and tried to depict, in my mind's eye, that the area was once covered by a large lake. It must have been quite a project to drain Black Lake and a very challenging and exciting time to have been engaged in the business of mining asbestos.

After a most comfortable, much needed night's rest in Thetford Mines, we headed toward Black Lake and were heartily and warmly greeted by Mr. Michael J. Messel, President of Lake Asbestos of Quebec Ltd., and enjoyed a most

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interesting chat with Mr. Messel and with Lionel C. Piuze, Vice President. I must interject at this point that many favorable comments were offered (and gratefully received) about ASBESTOS Magazine. Several comments were, in fact, made throughout the 2-day tour to the effect that ASBESTOS *is* informative and useful, that its pages are often consulted and that they frequently contain much desired information. Most welcome observations, indeed!

With hard hats firmly positioned we were ably guided by Jean-Louis Grondin, Maintenance Control Superintendent, through LAQ's mining and milling operations. Again I experienced a breathtaking reaction as I viewed the pit from the "edge at the top" and drove into the vast "hole," stopping at the various benches. Again I was impressed and enthusiastic to see the mining equipment at work, the effective crushers, the drying and storage facilities, the methods employed to control asbestos dust and the many kinds of milling machinery utilized to assure complete fiberization and total separation of fiber from rock. As before, the grading and packing techniques proved interesting as yet another supply of asbestos fiber was readied for shipment, graded to specification.

The graded fiber, both at Jeffrey and at Black Lake, is pressurized into standard-size, 100-pound oblong blocks and then bagged. Some bags are made of paper, some of jute and some are "poly" bags, whichever the order specifies. Much of the asbestos is now shipped in "containers"—specially designed boxes—which can be hauled over the road or transported by rail. The uniform size and rectangular shape of the pressurized packages allow maximum utilization of space in the containers—and using the containers minimizes the time consumed in loading, unloading and reloading procedures between points of origin and destination.

Grateful acknowledgments must be extended to those at Lake Asbestos for their graciousness and hospitality. Their kind considerations made my stay at Thetford and Black Lake most enjoyable.

Following the visit to Lake Asbestos we spent a delightful and enlightening time with M. P. Carson, Vice President-Sales with Asbestos Corporation Ltd., William J. W. Smith, Vice President and Sales Manager for Bell Asbestos Mines

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Ltd. and Paul A. Filteau, General Manager of QAMA. Again, favorable comments about ASBESTOS Magazine were happily received and many worthwhile suggestions were offered to further enhance the value of ASBESTOS to the Industry.

John Gossip had one last item on the agenda before returning to Montreal. And so, we headed toward the immense relocation program underway in Thetford, a joint venture between three levels of government and Asbestos Corporation. Some 200 homes are in the process of being relocated to an area remote from mining operations. We stopped to see the houses that have yet to be moved. One structure was being stripped, piece by piece, from its foundation and on another plot a home was already removed from its basement and situated atop a transport vehicle, waiting to be carried to its "new neighborhood." We then rode to the relocation site and noted the houses that are already established on newly-constructed foundations. As with all such operations, much construction equipment is evident, and there are dirt piles and "mud, mud" everywhere. When the relocation project is completed the new residential area will be quite attractive.

At Bill Smith's suggestion, on the way to the relocation area we stopped to view the progress of the sinking of the new shaft at the Bell Mine. This is a very costly, 5-year venture and upon completion the shaft will provide access to the ore body and will put into operation the most modern asbestos mining techniques and equipment available.

In summation, the tour was well-planned, inclusive and informative and "packed full" of things to do and see and interesting people to meet.

There is no way to amply express my appreciation for the many courtesies extended except to say, "Thank You—to each and every person who was a part of the fascinating tour!" It was a genuine pleasure to personally meet those with whom I have frequently corresponded, and to see, first hand, some of the places and operations about which I have read and written. A special "thank you" must be given to John Gossip and to Paul Filteau of the Quebec Asbestos Mining Association for their interest and painstaking efforts to arrange such an enjoyable and comprehensive tour.

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter III: H. K. Porter Company, Russell Works

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

The Russell Manufacturing Company was a pioneer weaver of asbestos brake lining and asbestos clutch facings. Rusco has earned a prominent place in the history of the asbestos textile industry. There are few American textile manufacturers with a longer record of continuous production.

The Russell family emigrated to America in 1639 and settled in Middletown, Connecticut, in 1678. Samuel Russell made a sizeable fortune in the early 1800's in the China Clipper trade. Together with Samuel D. Hubbard he founded Russell Manufacturing Company. The company was incorporated June 29, 1834. A mill was constructed on the banks of the Pameacha River. A water wheel furnished power to run the factory.

Right from the start Russell Mfg. Co. specialized in the weaving of narrow fabrics. Original products included harness web, muleback banding and jute webbing. Over the years Rusco has kept pace with the ever-changing demand for narrow fabrics. Rusco was for many years the nation's largest weaver of slide fastener (zipper) tape and of venetian blind tape.

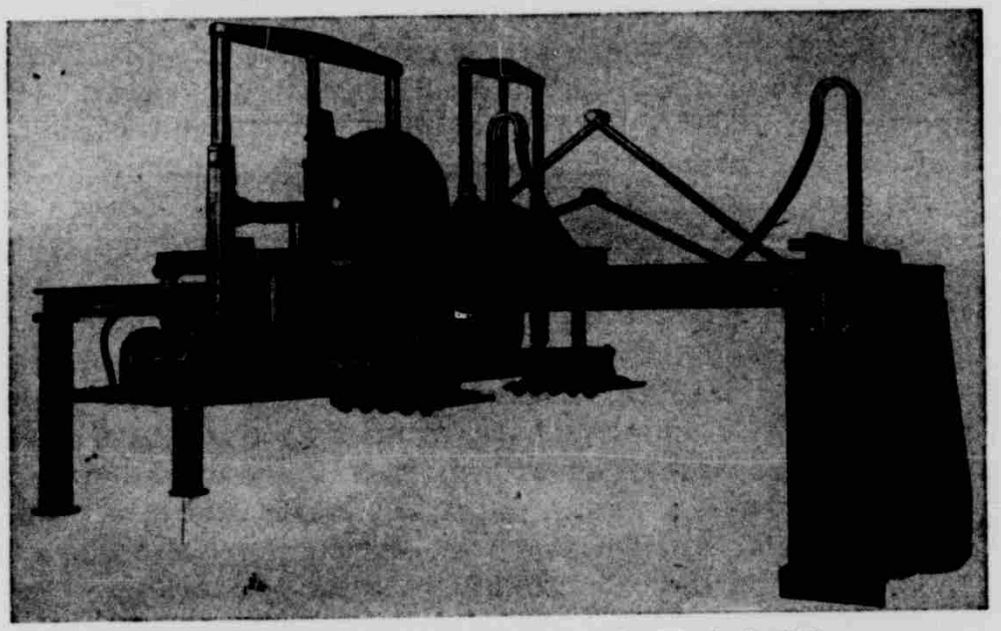
Russell products contributed to victory in five wars. The list of products is much too comprehensive to enumerate in this brief resume. Rusco cartridge belts were worn by soldiers in the Spanish-American War. These belts had intricately woven cartridge loops. They were the grandfather of the woven machine gun belts used during World War I. Rusco wove in excess of 22,000,000 machine gun belts during World War II. The improved design of these cotton tapes enabled the Army to produce a lighter and more maneuverable weapon. The Rusco cover for the famous Norden bombsight was one of the most cleverly designed and fantastically complicated woven structures the writer has ever seen.

There are no records available to tell us precisely when Russell Mfg. Co. first started to weave brake lining tape

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from asbestos yarn. Shortly after the turn of the century, Rusco was sending brake lining tape to the Royal Equipment Company in Bridgeport, Connecticut, to be impregnated. As some of our readers may know, Royal Equipment Company was the original name of the Raybestos Company. It is uncertain whether these early types of brake lining tape were woven from cotton or asbestos yarns.

About 1905 Rusco set up to do its own impregnating. At about the same time Royal Equipment started to weave its own brake lining tape. These two pioneer companies thus became self-sufficient in their efforts to serve the needs of the rapidly-developing automobile industry.

As has frequently happened in American industry, a company reaches a peak of manufacturing and sales efficiency and then starts to coast. The depression following the 1929 stock market crash found Rusco with an obsolete plant and heavy bank indebtedness. The company was forced into receivership in 1932. The need for new management was imperative. The management team of George Williams, Carl Sherer and Amor Smith came from the Marmon Motor Car Company to take charge. By 1936 they had succeeded in putting Rusco back on the track and in the black. By 1940, the year prior to the U.S. entry into World War II, Rusco sales had grown to $4,400,000. In the first year of the war, sales nearly doubled to $8,700,000. However in justice to the management triumvirate, it should be mentioned this remarkable growth in sales was not entirely the result of war demand for Rusco products. A program of modernization and new product development had added a wide variety of elastic fabrics, glass fabrics and endless cotton belts to the Rusco line.

No living Rusco veteran seems to recall when the company first started to spin asbestos yarn. Up until 1934 the asbestos yarn mill was located in the town of Rockfall, Connecticut. The Mill Superintendent was W. L. Truesdale (the father of W. H. Truesdale who was one of the Founders of Carolina Asbestos Company). In 1934 the receivers sold the Rockfall plant in order to conserve the capital assets of the company. For the next ten years Rusco was the world's largest buyer of asbestos-metallic yarns. Raybestos-Manhattan, Southern Asbestos, Carolina Asbestos and other mills actively competed for the business.

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During World War II asbestos cloth became one of the most critical of all war-shortage materials. The entire capacity of the industry was inadequate to meet the needs of the largest shipbuilding program in history. About 1941 or 1942 Mr. J. Franklin Burke started an asbestos spinning and weaving mill at Northfield, Vermont. The mill wove Navy specification asbestos cloths for the balance of World War II. At the conclusion of the war, in 1945, shipbuilding came to an abrupt halt. The J. Franklin Burke plant was left with no alternative market for its products. At about the same time, Mr. Burke died, most unexpectedly. The mill was put up for sale by the administrators of his estate. Russell Mfg. Co. grasped the opportunity to again become self-sufficient in the manufacture of one of its basic raw materials, asbestos yarn. The Northfield plant was purchased by Rusco about 1945 and continued in operation until 1959.

In 1955 the company was again reorganized. Mr. Leslie R. Runton came from the Smith Carpet Company, Yonkers, New York, to accept the Presidency. He brought in R. W. Williams as Vice President. He also recruited Milton E. McCrosson, a 1925 graduate of the Philadelphia Textile Institute, as Manager of Textile Operations. In 1960 Milt McCrosson was elected a Vice President. Although his responsibilities did not include asbestos products, they are of interest to those of us in the textile industry. Old line products included a tremendous variety of cotton tapes and cotton belts. More recent products include a full line of woven glass tapes, used in the electrical industry. Modern products include a patented, solid-woven, cotton-nylon conveyor belt used in coal mines. Drive tapes are currently furnished to computer manufacturers, photo copy machine manufacturers and the U.S. Post Office.

In 1931 Mr. H. Clifford Morton graduated from Wesleyan University with an M.S. in Chemistry. He immediately joined Rusco as a research chemist and served in that capacity until 1936. Cliff Morton left Rusco in 1936 to accept a position as Chief Chemist of Ferodo and Asbestos, Inc., at New Brunswick, New Jersey. The New Brunswick plant was at that time an important manufacturer of top-quality, woven brake lining. In 1945 Cliff Morton returned to Rusco as Director of Research. Soon afterward he was appointed Superintendent of Manufacturing and, in 1960, Vice Presi-

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dent of the Friction Materials Division.

Under Cliff Morton's supervision, the sale of brake lining and clutch facings exceeded the spinning capacity of the Northfield plant. Carolina Asbestos Company furnished most of the additional yarn requirements. Concurrently, the Rusco plant at Bennettsville, South Carolina, was standing idle. This plant had previously woven venetian blind tape, for which there was a greatly-reduced demand. In 1959 it was decided to transfer the asbestos carding and spinning equipment from Northfield to Bennettsville. This move provided room for expanding yarn production. About 1960 the asbestos tape looms and the glass tape looms were moved from Middletown to Bennettsville. The woven tapes still had to be returned to Middletown for treating and finishing.

During the years 1956 through 1965 Rusco went through a period of reorganization, modernization and improved profitability. In 1965 the H. K. Porter Company was desirous of expanding its position in the friction materials industry. Porter already owned the Thermoid Company and its several branch plants, including the Southern Asbestos Works at Charlotte, North Carolina. In 1965 Porter made the Rusco management what was considered an attractive offer. The Board of Directors sold Russell Manufacturing Company to H. K. Porter Company, Inc., who promptly made Rusco a part of its Thermoid Division operations.

Ensuing chapters of this "History of the Asbestos Textile Industry in the United States" will appear in future issues of ASBESTOS.

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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LIBERTY LEASING COMPANY, INC., Chicago, Illinois, has been named the sole national leasing representative for two major manufacturers of air and water anti-pollution equipment. *The Water Pollution Control Division of Keene Corporation,* Aurora, Illinois, and *Clean-Air-Ator Corporation,* Oklahoma City, Oklahoma, are now offering equipment under the "Anti-Pollution Lease Plan" recently introduced by Liberty.

The plan offers to industry new options in long-term financing under two different methods: (1) an extended takedown plan under which equipment is introduced in gradual stages over a ten-year period; (2) a standard three-to-five year lease for immediate installation of essential equipment. Longer term leases of up to ten years for larger amounts of equipment are also available under the option.

Keene's Water Pollution Control Division specializes in the design and manufacture of process equipment for municipal water pollution control plants. The company also provides equipment and custom design facilities to companies in private industry, particularly where the separation and treatment of oily wastes prior to discharge into receiving sewers or streams are concerned.

Clean-Air-Ator's afterburner has been specifically designed and engineered to stop pollution originating in incineration. The equipment converts noxious fumes into an odorless and colorless mixture of carbon dioxide and water vapor. Extreme temperature completely incinerates all the impurities before they can reach the outside air.

Early this year, industry was spending at the rate of $2 billion annually on environmental control. Reliable estimates indicate the figure may reach $10 billion a year henceforth for both governmental and private efforts to eliminate air and water pollution.

NATIONAL GYPSUM COMPANY's Board of Directors declared a regular quarterly dividend on the company's common stock of 26¼¢ per share payable October 1 to holders of record September 10.

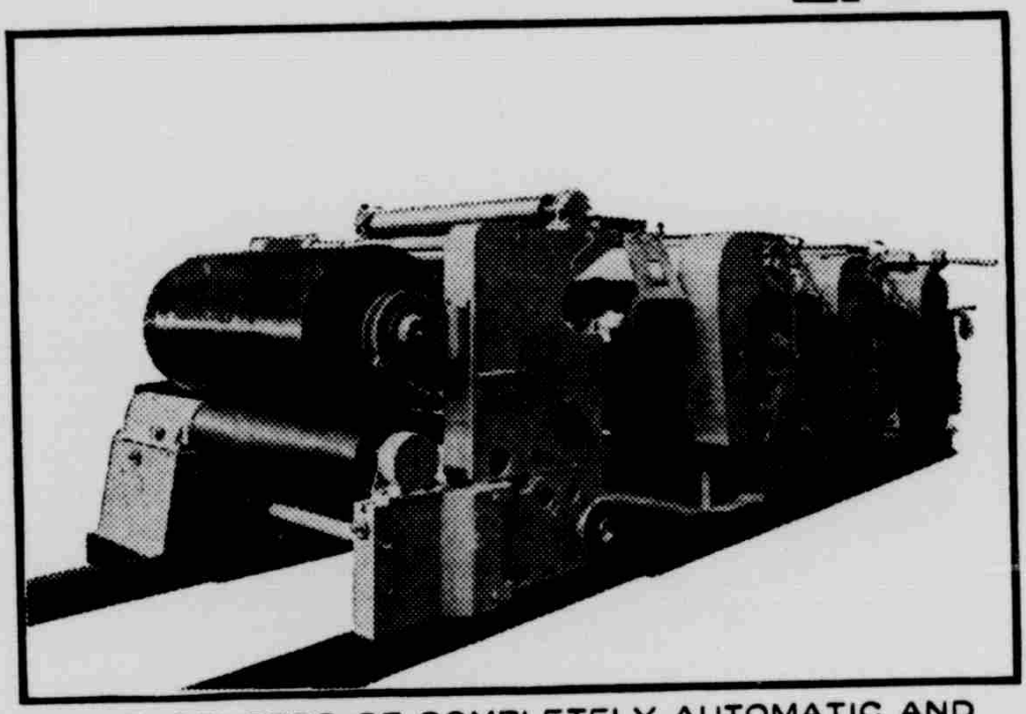
The Board also declared a regular quarterly dividend of $1.12½ per share on its preferred stock payable September 1 to holders of record August 11.

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ASP/HAG/19

asbestos cement *plants*





MANUFACTURERS OF COMPLETELY AUTOMATIC AND UP-TO-DATE PLANTS FOR

asbestos cement

- PRESSURE PIPES
- CORRUGATED SHEETS
- FLAT SHEETS
- SOCKET PIPES

HYDERABAD ASBESTOS

CEMENT PRODUCTS LTD.

PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

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Control and Safety Guides

Under the new Asbestos Regulations, in force in the United Kingdom since May 1970, the protection of workers from industrial disease which might arise from the inhalation of asbestos dust became a statutory obligation wherever asbestos materials are used in such a way as to give rise to the emission of dust dangerous to the health of employees. The *Asbestosis Research Council* and major asbestos manufacturing companies in the United Kingdom have had considerable experience in devising safer methods of production and processing of asbestos materials. For the assistance of those who will now be similarly concerned with the control of working conditions in accordance with the "Asbestos Regulations 1969," the Council's Environmental Control Committee has prepared a series of "Control and Safety Guides," based on the experience of its members in the varied sectors of the Asbestos Industry.

There are presently seven Guides in existence and Guide No. 8 on the handling of friction materials is in preparation.

Guide No. 1 is concerned with "Protective Equipment in the Asbestos Industry" and includes data on respiratory equipment and protective clothing. Attached to the Guide is the "First List of Approved Dust Respirators" under the Regulations, as circulated by H.M. Factory Inspectorate.

Guide No. 2 is titled "The Application of Sprayed Asbestos Coatings." It covers such information as operations to which the Regulations may apply, measurement of dust levels, general hygiene standards and the definition of asbestos dust.

Guide No. 3 covers "Stripping and Fitting of Asbestos-Containing Thermal Insulation Materials." The new Regulations apply to all factories, construction and demolition sites where operations giving rise to the liberation of asbestos-containing dust occur. Specific chapters in this Guide concern Stripping Thermal Insulation; Erection of Insulation; Transport and Distribution of Insulating Materials; and Site Hygiene.

Guide No. 4 refers to "Asbestos Textile Products, CAF/Asbestos Beater Jointings and Asbestos Millboard." The products covered are asbestos yarn; woven asbestos cloth, webbing and listing tapes; asbestos packings (dry, plaited and stranded; greased, plaited and stranded; proofed; and miscellaneous); asbestos rope lagging; compressed as-

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WATTS, GRIFFIS and McOUAT
Consulting Geologists and Engineers

Canada
WATTS, GRIFFIS and McOUAT LIMITED
Suite 911, 159 Bay Street, Toronto, Ontario (416) 364-6244

Australia
WATTS, GRIFFIS and McOUAT (Australia) PTY. LIMITED
56 Pitt Street, Sydney, New South Wales 27-5764 10 William Street, Perth, Western Australia 22-1500

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bestos fiber and asbestos beater jointings; and asbestos millboard. The booklet advises the precautions that should be taken and the recommended procedures to be followed to eliminate the emanation of dust. It also lists the recommended procedures for the use of asbestos cloth in mattress making, in thermal insulation and for the manufacture of protective clothing and fire protection materials.

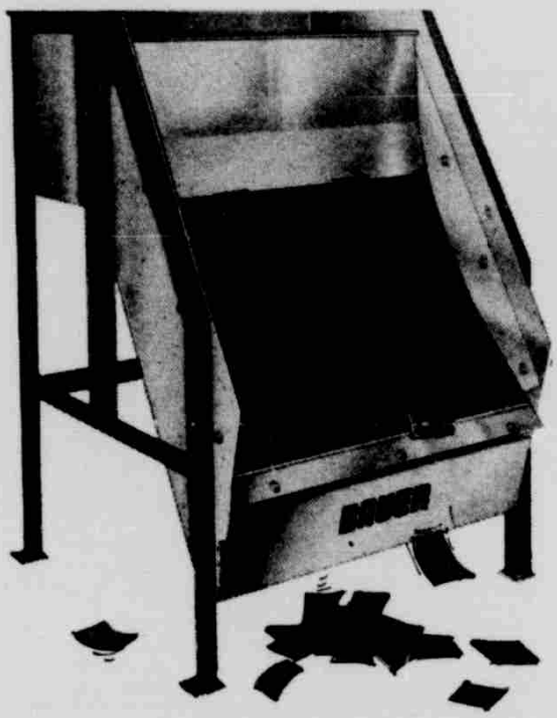
Guide No. 5 is headed "Asbestos-Based Materials for the Building and Shipbuilding Industries and Electrical and Engineering Insulation." Products covered by the recommended procedures are corrugated and flat sheets and all ancillary asbestos-cement building materials; rainwater, soil, flue pipes and cisterns; molded and extruded building products, thermal insulation products, insulation products used in electrical and mechanical engineering; water and sewerage pipes; and asbestos felt and paper.

Guide No. 6 concerns itself with "Handling, Storage, Transportation and Discharging of Asbestos Fiber into Manufacturing Processes." At the request of the Asbestos Fibres Importers Committee the notes in this Guide have been prepared for the guidance of those manufacturers who, using asbestos fibers as an essential ingredient in their product, will be concerned with the application of the required safety measures at least to the stage where the asbestos fiber is incorporated with the process and there is no further risk of the emission of dust as defined in the Regulations.

Guide No. 7, entitled "The Control of Dust by Exhaust Ventilation when Working with Asbestos," sets forth guide lines for those who have not had prior experience with dust extraction equipment and to help them to comply with those requirements of the Regulations concerned with the providing, maintaining and utilization of such equipment. The main sections of the booklet are headed Definition of Asbestos Dust, Typical Dust Control Systems, Low Volume-High Velocity Exhaust Systems, Commissioning and Statutory Inspection and Examination of Exhaust Ventilation Equipment.

Further information or copies of any or all of the Guides may be secured by contacting either the Asbestosis Research Council, P. O. Box 40, Rochdale, Lancashire, or the Environmental Control Committee of the Council at 114 Park Street, London W1Y 4AB, England.

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Recover usable solids. Combat pollution.

Save money, too!

Bauer Hydrasieve. This simple, efficient dewatering device is profitably recovering usable solids in many processing operations. And alleviating pollution problems. And saving money, too. Having no moving parts, this self-cleaning screen needs little or no supervision. It provides continuous dewatering at lowest cost. Ask for Bulletin G-40. **The Bauer Bros. Co.,** a subsidiary of Combustion Engineering, Inc., Springfield, Ohio 45501, and Brantford, Ontario.

CE BAUER

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VIBRA SCREW INCORPORATED, Totowa, New Jersey, has a new, color/sound motion picture which is available, on a loan basis and free of charge, to anyone involved with the problems of dry materials handling. Subjects of the film are the Vibra Screw Bin Activator, together with the company's line of vibrating feeders and the new Vibra-Blender. The firm demonstrates the importance of uninterrupted flow from storage into process. A basic discussion on the most contemporary thinking in hopper design is conducted.

Vibra Screw is a manufacturer of controlled vibration equipment for feeding and hoppering of dry bulk materials. In June of this year the company announced it had acquired, from General Tire & Rubber Company, Akron, Ohio, exclusive manufacturing and marketing rights for Gen-Way Bin Gates, versatile closures designed to provide variable discharge control of gravity-fed dry bulk materials from hoppers, charging cars, traveling lorries and stationary storage bins. The new valve will be called the Vibra Screw "Vari-Gate."

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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Gold Bond uses the best quality control devices known to man: people.

Sure we automated our milling equipment. Five floors of it.

But we want to be certain the particular grade of asbestos you need meets your requirements for uniformity.

So people monitor the automated mills on closed-circuit TV.

And people test each batch.

Our technicians make wet screen analyses to evaluate length and distribution of fibre...viscosity tests on absorptive characteristics... measure grit content...whatever it takes to be sure the asbestos meets your exact specifications. Batch after batch.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P.Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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Asbestos in Bituminous Concrete

The Bureau of Materials, Testing and Research, Harrisburg, Pennsylvania, recently released a report on the installation and evaluation of bituminous surface courses incorporating asbestos fibers in the mix design. Over 19,000 tons of experimental FJ-4A (a sand-asphalt mixture with 1-2% asbestos fibers) were placed on fifteen separate projects throughout the Commonwealth of Pennsylvania during the 1967 and 1968 construction seasons. A portion of each job, except one, was surfaced with Class FJ-1A (the Pennsylvania Department of Highways' standard, sand-asphalt mix) for control purposes and represented 21% of the experimental tonnage. Prior to the initiation of the research project with control features, more than 200,000 tons of FJ-4A had been placed during the period 1962-1967. The use of FJ-4A was terminated after 1968 pending the outcome of the study.

A total of 34 miles of resurfacing was placed in ten counties. With the exception of some alterations at the plant for introducing and mixing the fibers, all other plant and paving operations were standard. Seven projects used limestone fine aggregate, three used gravel, two used river sand, two were placed with limestone and sand blends and one mix was made with diabase.

The report describes the physical conditions surrounding each project and the method of placement. Cost data are supplied for each application along with a compilation of mix design data and extraction results.

The conditions surrounding the mixing and placement of the surface materials were somewhat less than ideal for comparative research purposes, but it was felt the program was sufficiently valid to evaluate the performance of the experimental FJ-4A. An inspection made in the fall of 1969 found little *visual* difference between the two surfaces. But the FJ-4A surfaces did show less reflective cracking, slightly tighter surfaces, a tendency toward crack healing and less drying of asphalt.

It is anticipated that field observations of these projects will continue until definite conclusions can be drawn.

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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.

The Asbestos Cement Felt Division of Scapa Group Ltd

A CALL FOR PAPERS—The urgent need to develop non-traditional solutions to the problem of low-cost housing brought into being the Agrément project in France and Operation Breakthrough in the United States. These two projects are based on the *concept of performance of building components* regardless of materials of manufacture.

To evaluate the success of the performance concept, three organizations are jointly sponsoring a comprehensive state-of-the-art symposium to be held May 2-5, *1972,* in Philadelphia, Pennsylvania. The organizations involved are the American Society for Testing and Materials, and two groups based in France—The International Union of Testing and Research Laboratories for Materials and Structures, and the International Council for Building Research Studies and Documentation.

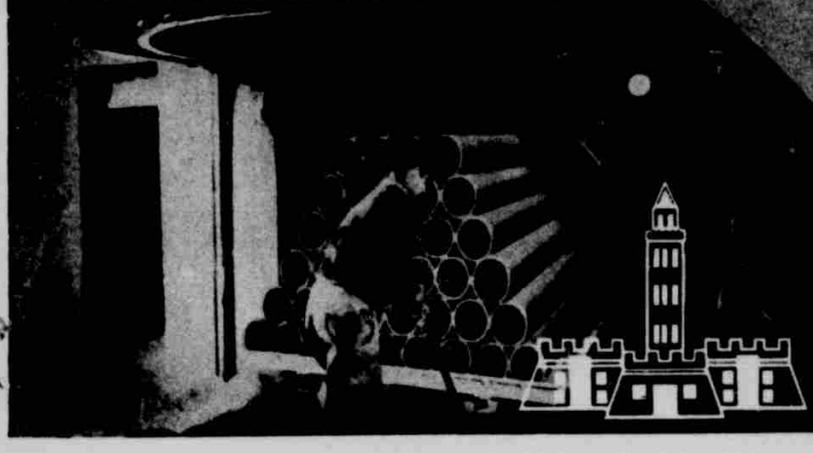
The first session will be of an introductory nature with the chief technical content being an assigned paper on the history and development of the performance concept in building. The second session will consist of papers on establishing requirements, criteria and specifications for building, building systems, building sub-systems, components and materials. Sessions III and IV will emphasize the techniques of evaluation of performance. Session V is designed for reports on past experience in the use of the performance concept in programming, designing and erecting specific buildings. Session VI will offer an opportunity to those interested in the development, by use of the performance concept, of new materials or components.

The name of the author, the subject of the paper and a brief abstract are to be submitted by December 1, 1970, to: RILEM-ASTM-CIB Symposium, ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103. The Symposium Committee would appreciate informal advance notification of the intent to submit papers.

H. K. PORTER COMPANY, INC., on August 28, declared a quarterly cash dividend of 25c per share on the common stock, payable September 30 to stockholders of record September 10.

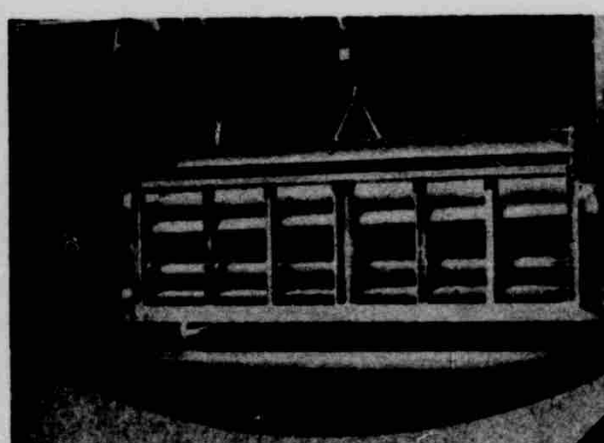
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES



AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

ASBESTOS CEMENT ENGINEERING CO.



MODERN PLANTS FOR MAKING ASBESTOS CEMENT CORRUGATED AND FLAT SHEETS

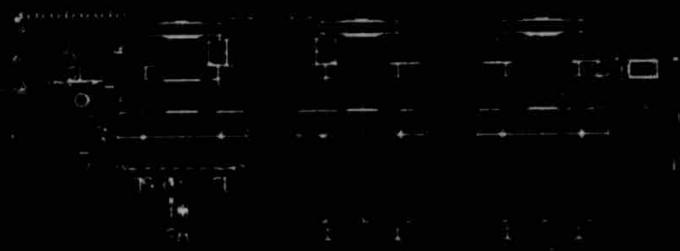


Plants projected, delivered and started.
Agents required.
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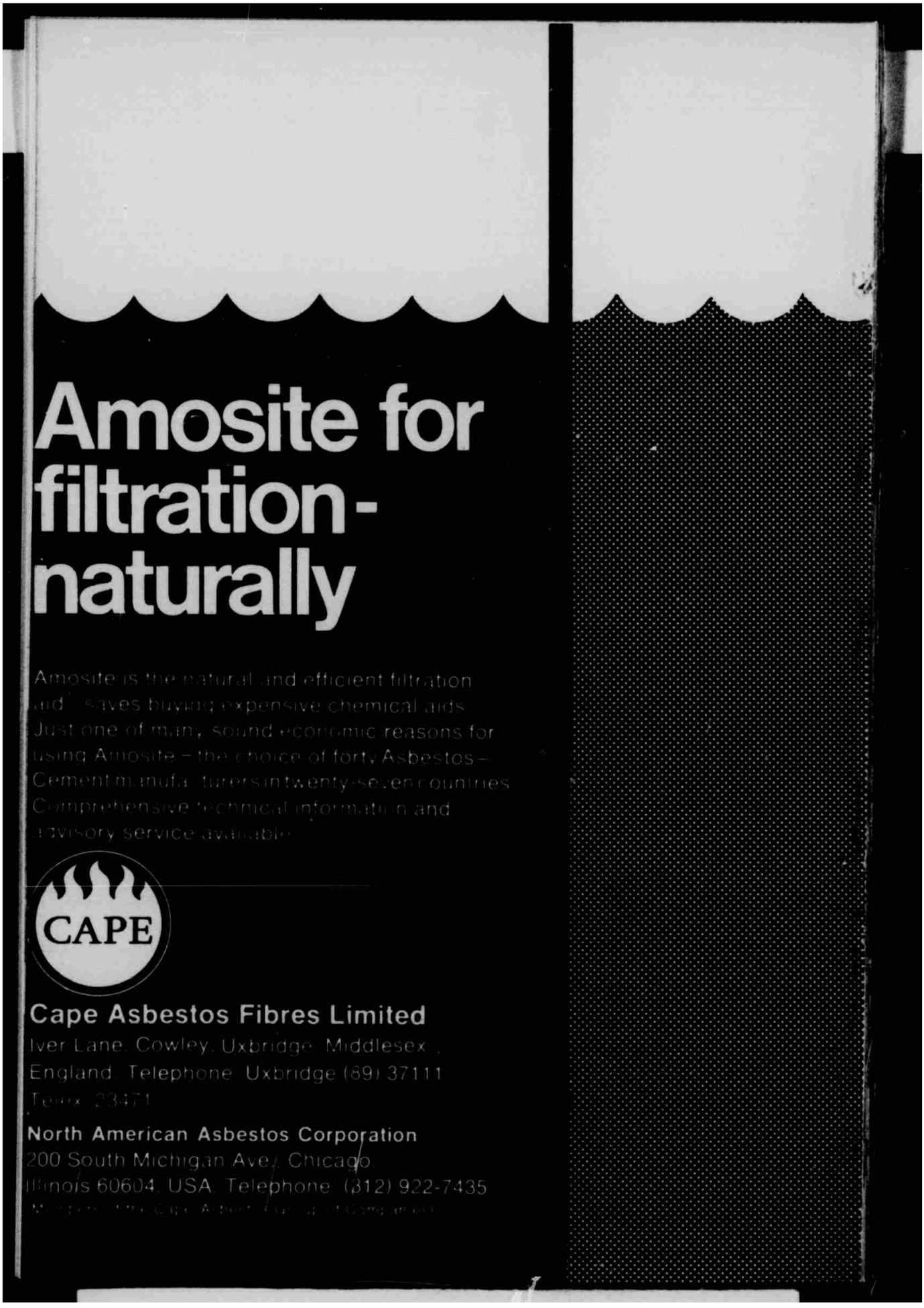
AUTOMATIC CORRUGATING AND STAPLING MACHINES

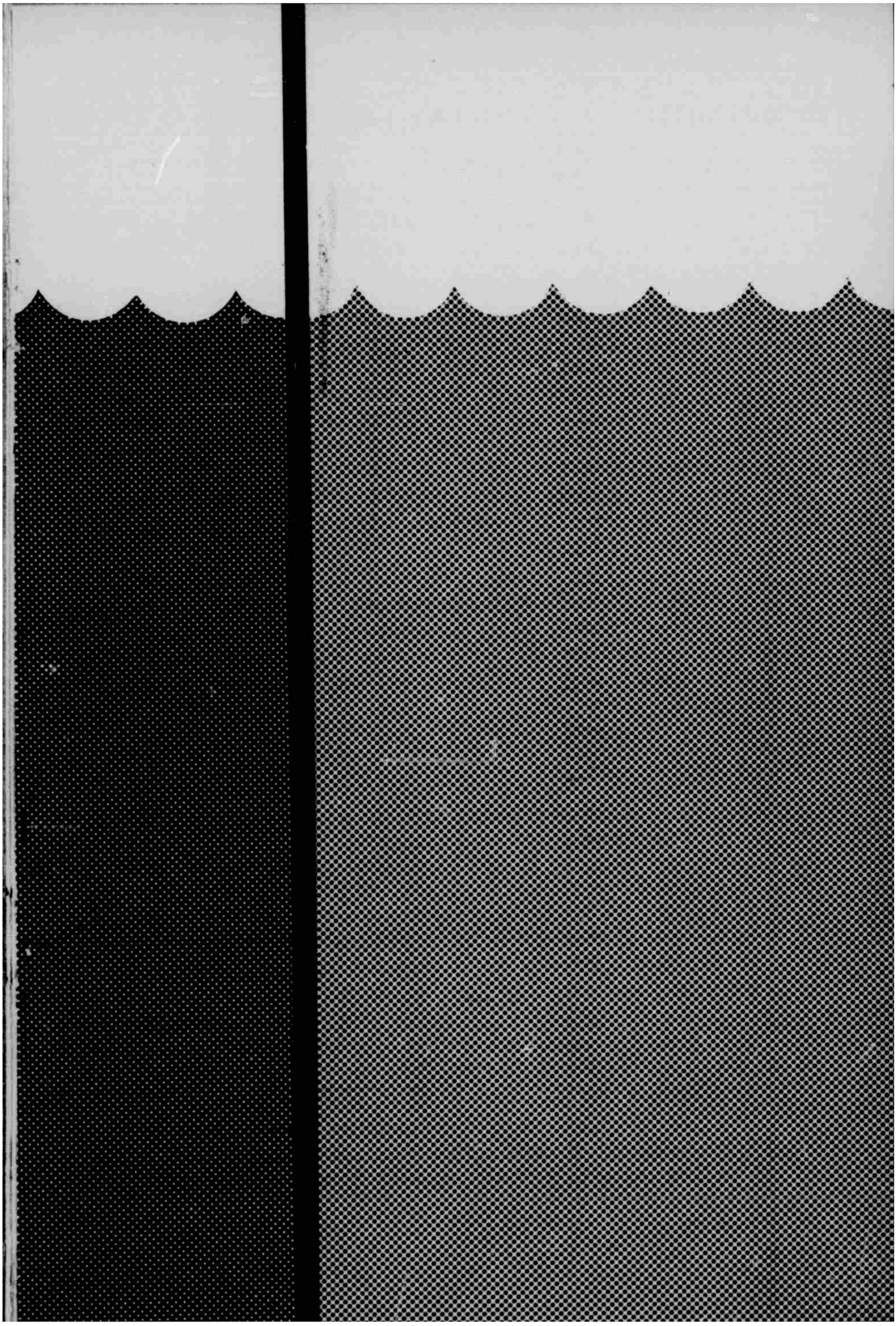
ASBESTOS CEMENT ENGINEERING CO.

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(SWITZERLAND)
P.O. BOX 34.722 •
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Amosite is the natural and efficient filtration aid – saves buying expensive chemical aids. Just one of many sound economic reasons for using Amosite – the choice of forty Asbestos – Cement manufacturers in twenty-seven countries. Comprehensive technical information and advisory service available.
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Iver Lane, Cowley, Uxbridge, Middlesex, England. Telephone Uxbridge (89) 37111
Telex 23471
North American Asbestos Corporation
200 South Michigan Ave., Chicago, Illinois 60604, USA. Telephone (312) 922-7435



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MARKET CONDITIONS

General Business.

General business continues rather "spotty." While some consumer lines have shown increasing activity, capital goods are still in a decline with no signs of a near-term improvement. The autoworkers have called a strike against General Motors and, at this writing, a settlement could be a long way off. With the Country's largest industrial concern shut down, there are certain to be depressing effects on its many suppliers and hence on the entire economy.

Leading banks have announced a one-half percent cut in the prime interest rate—another indication of an easing in the tight money situation.

The political situation in the Middle East has deteriorated further and that area remains a tinderbox. The uncertainties existing there are having a sobering effect on American and foreign stock markets as investors and speculators are taking a "wait and see" attitude.

Asbestos Fiber.

Indications of a higher level of business activity in the U.S. and Canada were reflected by a somewhat higher demand for asbestos fiber commencing in August. However, the automotive strike will tend to reduce any upward trend in view of the extensive usage of asbestos fiber in so many of the manufactured components in the auto industry. If the strike is of relatively short duration, the overall effect on asbestos shipments will not be severe.

There is cautious optimism that economic conditions have turned the corner such that asbestos shipments over the balance of 1970 and through 1971 will be at higher levels as compared to the past months of 1970.

The international market continues to be a strong factor in maintaining asbestos sales at or close to the levels of 1969.

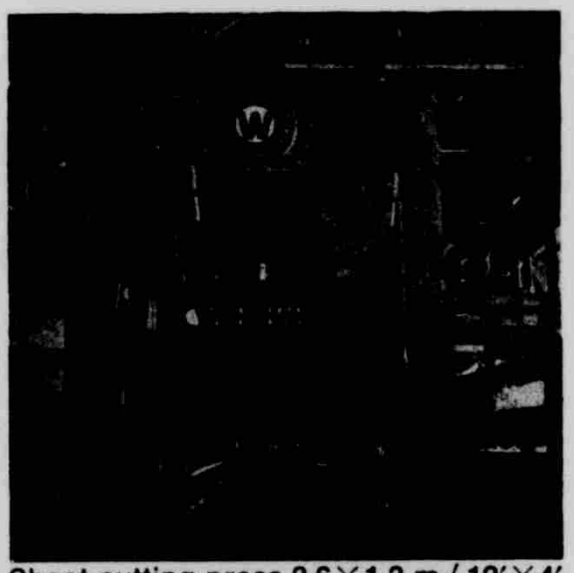
The market for Arizona filter fiber is steady and total

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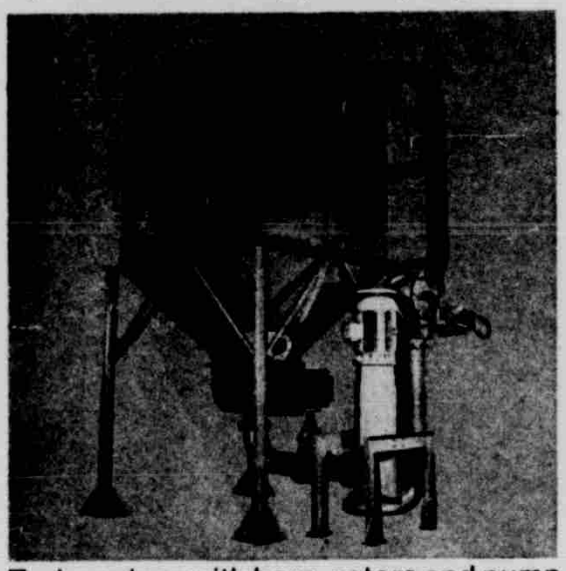
Choose performance and efficiency



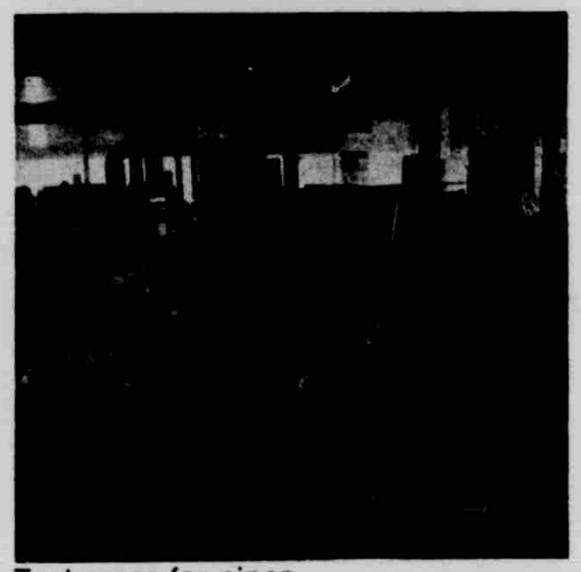
Hydraulic lathe for pipe couplings



Sheet cutting press 3,6×1,3 m / 12′×4′



Turbopulper with horz.-rotors and pump



Test press for pipes

What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!
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sales for the year should exceed those of 1969 by a small but appreciable amount.

Asbestos—Manufactured Goods.

Asbestos Textiles: The market for asbestos textiles is steady and overall volume is quite satisfactory. Except for uncertainties caused by the current strike in the automotive industry there is considerable feeling that shipments should increase in the latter part of the year. Several manufacturers have posted price increases to become effective this month.

Asbestos Brake Lining: The current automotive strike will depress OEM sales but replacement sales are healthy and the outlook for the balance of the year is good.

Asbestos Paper: The third quarter is showing little or no improvement in sales of this material. Any upward trend will not now be evident until the fourth quarter.

Asbestos Millboard: Sales are continuing fairly steady but at levels under those of 1969. The fourth quarter is expected to show some improvement.

Asbestos Felt: Demand for felts has recently shown an unexpected turn for the better and prices are stable. The outlook for the last quarter is good.

High Pressure Insulation: The market for high pressure insulation is strong. The tremendous expansion of public utilities' power plants now under way must continue over the long term and this bodes well for the future of these products.

Asbestos-Cement Shingles, Roofing & Siding: While the market for asbestos-cement siding is weak, sales of roofing products are relatively strong. Present outlook is for a continuation of this situation for the rest of the year.

Asbestos Corrugated & Flat Sheets: The current year's lag in industrial building has resulted in a decrease in volume from the levels of 1969. There is no present indication that

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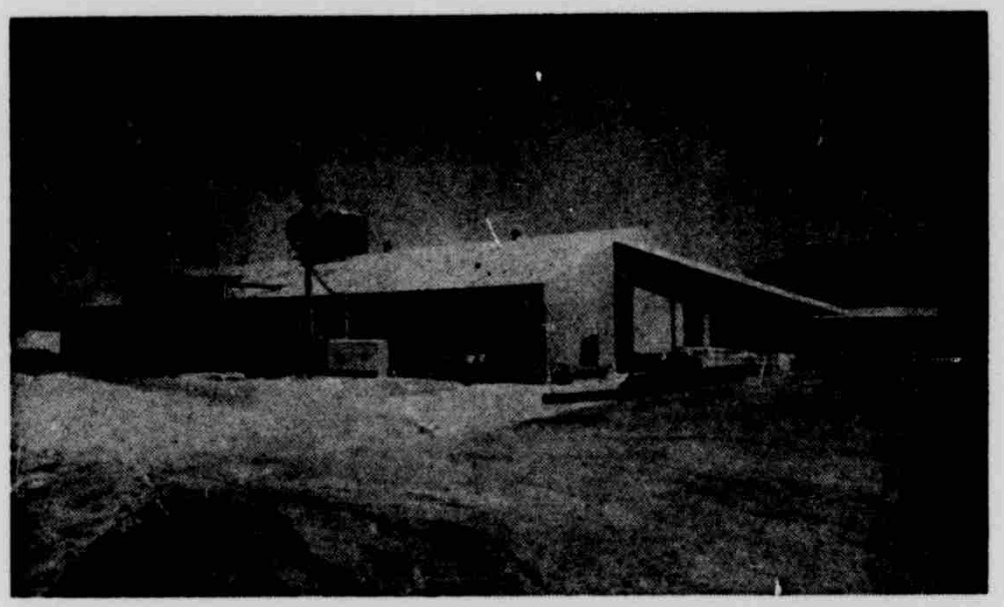
ARIZONA ASBESTOS

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Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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this condition will change during the remainder of this year.

Asbestos-Cement Pipes: The market for asbestos-cement pipes of all types is still in the depressed condition reported in July. A sharp increase in imports from Japan and Belgium has had a pronounced adverse effect on sales recently.

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

PRICE INCREASES on selected lines of resilient floor tile and on insets and feature strips were announced by *Armstrong Cork Company,* Lancaster, Pennsylvania. Effective November 1, 1970, the new prices apply to asphalt tile (up 3-4%); promotional smooth, embossed and regular lines of service-gauge "Excelon" vinyl-asbestos tile (up 2%); and specialized decorative insets and feature strips (up about 5%).

According to G. F. Johnston, General Sales Manager for Armstrong Cork's Floor Division, as of August 31, the company discontinued its "Long-Term Protected Order Program" affecting all flooring commodities.

Automobile Sales

JULY 1970 motor vehicle factory sales from plants in the *United States* totaled 627,509 (passenger cars, 481,622; trucks and buses, 145,887). The total for July 1969 was 617,143.

Motor vehicle factory sales from plants in *Canada* totaled 67,984 for JULY 1970 compared to 70,678 in July 1969.

(NOTE: For those interested, the 1970 edition of "Automobile Facts and Figures" has been issued and copies are available from the Automobile Manufacturers Association, Inc., 320 New Center Building, Detroit, Michigan 48202.)

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Asbestos down on the farm.

There are a lot of contented cows and dairymen today because J-M Flexboard® asbestos-cement sheets are lining more and more dairy barns and milk houses.

These flexible boards are reinforced with asbestos fibers to increase strength and fire protection.

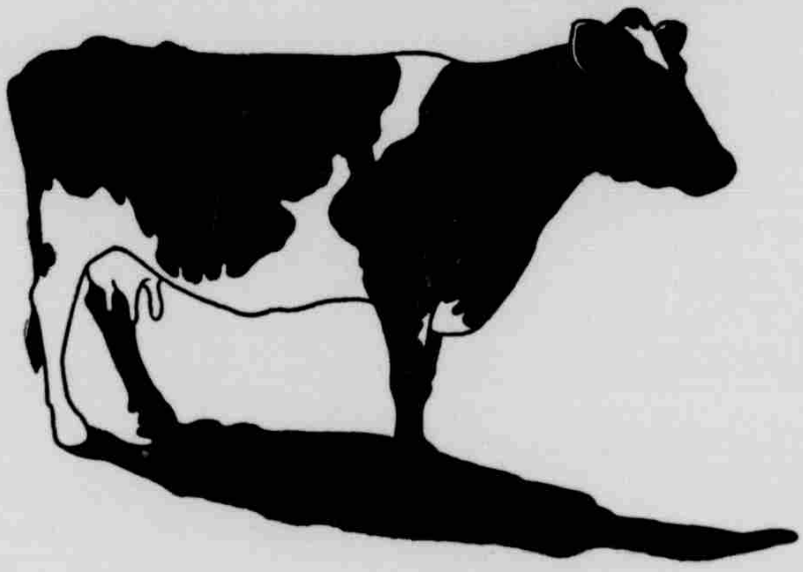
Asbestos also helps make building products immune to rot, rust and decay. So upkeep is low.

Back in the city, you'll find asbestos hard at work in durable, easy-to-erect Flexboard walls and ceilings in many modern apartment buildings.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fiber Sales, Manville, N.J. 08835 U.S.A.

JM

Johns-Manville



Construction News

From: McGraw-Hill Information Systems Company

AUGUST 1970 recorded a total contract value of $6,229,620,000, indicating full recovery from the decline in construction that occurred this past Spring. Although the contract figure for August was 4% below the total for the same month in 1969, the year-to-date total of $46,755,155,000 was virtually even with last year's 8-month amount. The seasonally-adjusted gain to 212 in the Dodge Index (1957-59=100) involved all of the major construction markets. George A. Christie, Vice President and Chief Economist with the F. W. Dodge Division, stated that, "In retrospect, it becomes even clearer just how much the financial squeeze of a few months ago put a temporary crimp in most building plans. Residential mortgage sources had dried up by the second quarter and the added problems of corporate liquidity and skyrocketing municipal bond rates combined to take just about everyone—homeowners, business firms and local governments—out of the construction market at about the same time. Since then, credit ease has proven to be the sure cure, bringing the current rate of contracting for new construction back to its previous level."

Nonresidential Building value was $2,331,470,000, only 5% below last year's exceptionally strong pace. Commercial buildings and hospitals scored gains but contracts for manufacturing buildings, schools and public buildings were down.

Residential Contracting totaled $2,349,388,000 and was within 1% of last August. Contracts for one- and two-family housing scored a 3% gain. However, apartments were down 2% and the hotel-motel-dormitory component was off 27%, thus keeping the residential total below the August 1969 value.

Nonbuilding Projects were valued at $1,548,762,000, 5% below the same month last year. Utilities remained below last August's "torrid pace" and the value of street and highway contracting was down.

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HUXLEY DEVELOPMENT CORPORATION

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TECHNICON INTERNATIONAL CONGRESS will take place at the New York Hilton Hotel, November 2-4. The largest meeting of its kind, the Congress is composed of ten symposia dealing with the most recent advances in automated analysis in clinical and industrial laboratories. The keynote speaker during a symposium on the inorganic applications of automated analysis will be William G. Hime, Manager of the Chemical and Petrographic Research Section of the Portland Cement Association. For additional information, contact Technicon Corporation, Tarrytown, New York 10591.

THE AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS will hold its annual conference at the Regency Hyatt House, Atlanta, Georgia, November 4-6.

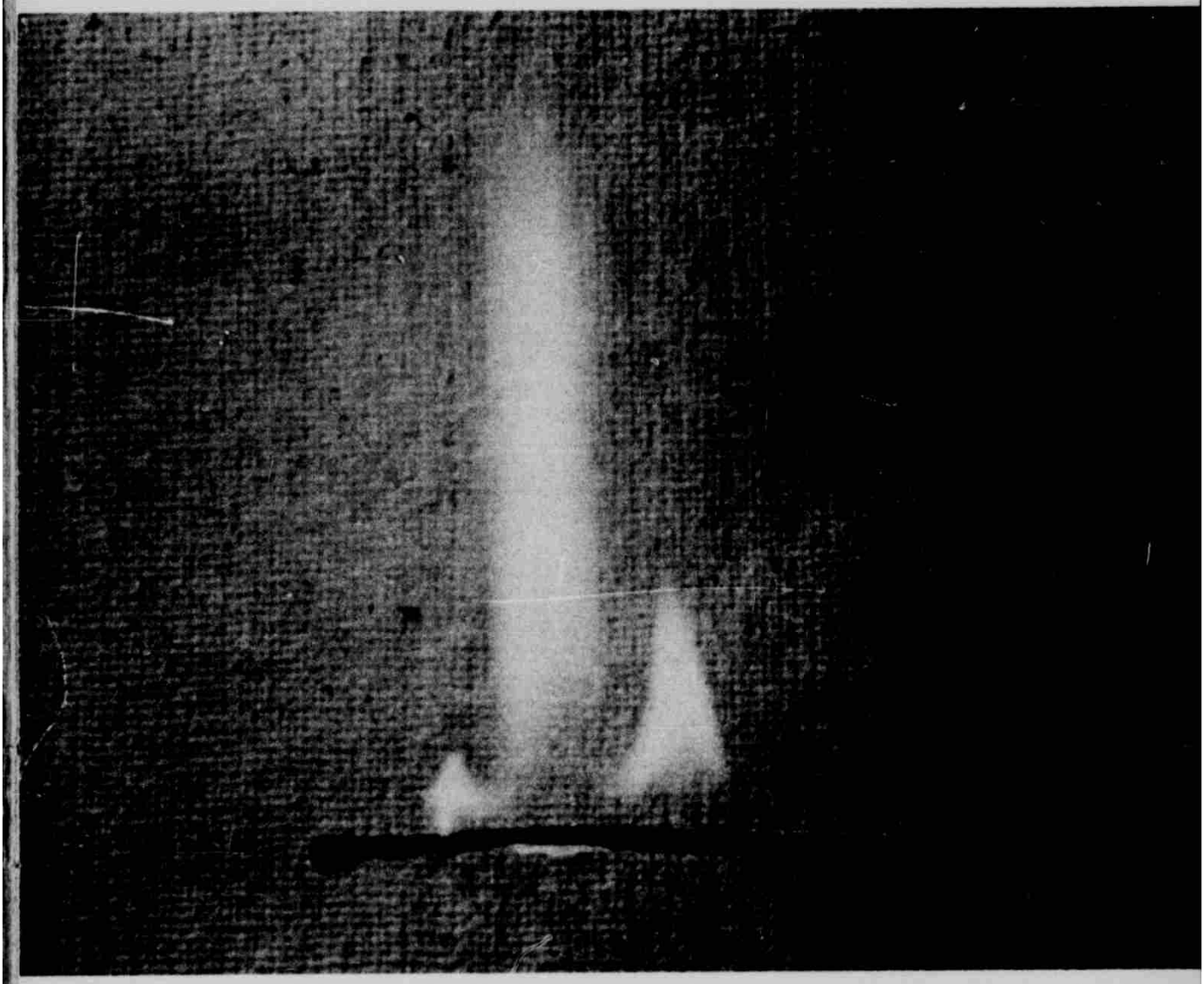
NBS SYMPOSIUM—The First Symposium on "The Use of Computers for Environmental Engineering Related to Buildings" will be held November 30 through December 2 at the National Bureau of Standards, Gaithersburg, Maryland. The Symposium is sponsored by NBS; The American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; and Automated Procedures for Engineering Consultants, Inc. Further information may be received by contacting Mr. P. R. Achenbach, Chairman of the Symposium, Room B-114, Building Research, NBS, Washington, D. C. 20234. Registration fee is $55.00.

DIALOGUE IN DEVELOPMENT will be the theme of the *Second World Congress of Engineers and Architects,* to be held in Tel Aviv, Israel, December 14-23. The event will be concerned with dialogue in planning, integration in planning and implementation of modern development practices. Official languages will be English, French, Spanish and Hebrew but simultaneous translations will be provided. The organizing institutions are the "Association of Engineers and Architects in Israel" and the "International Technical Cooperation Center" and papers, queries and registrations should be sent to: Congress Secretariat, 200 Dizengoff Street, Tel Aviv.

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PRODUCTION - IMPORTS - EXPORTS

Canada—Producers' shipments of asbestos during *June 1970* totalled 135,335 short tons (115,442 tons from Quebec plants and 19,893 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). Shipments for the *First Half of 1970* totaled 699,382 tons compared to 679,790 tons for the first six months of 1969.

Canada produced 81,792,360 square feet (38,091 tons) of vinyl-asbestos tile during the *First Half of 1970*. Shipments for the same period amounted to 77,348,637 square feet (36,231 tons).

Imports of vinyl-asbestos floor and wall tile for the *First Quarter of 1970* reached 167,481 square feet, valued at $15,000.

(The above quoted figures on producers' shipments of Canadian asbestos fiber and Canadian tile production were supplied by the Dominion Bureau of Statistics, Ottawa.)

South Africa—Production of asbestos fiber for the *First Quarter of 1970* totaled 66,080 metric tons: Amosite, 21,551 tons; Chrysotile, 11,543 tons; Cape Blue, 31,817 tons; and Transvaal Blue, 1,169 tons.

Exports for the same period totaled 50,271 metric tons, valued at R6,220,820. The breakdown is as follows: Amosite, 18,564 tons, R2,106,037; Chrysotile, 6,678 tons, R493,975; Cape Blue, 23,607 tons, R3,390,772; and Transvaal Blue, 1,422 tons, R230,036.

(The above figures were supplied by the Department of Mines, Johannesburg.)

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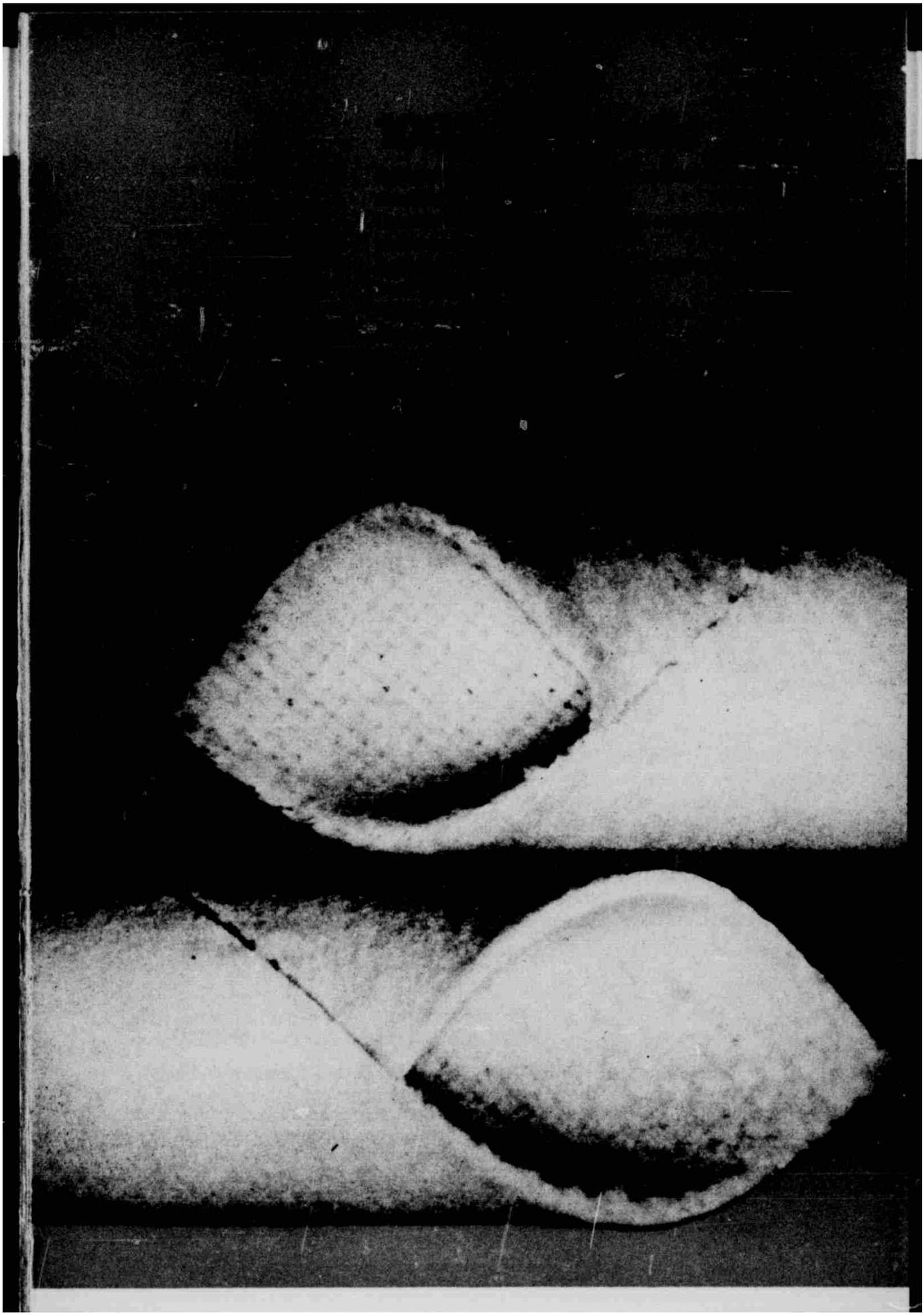
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Imports Into U.S.A.

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

Short Tons

Unmanufactured Asbestos:	MAY 1970	JUNE 1970
Amosite, South Africa	1,232	903
Crocidolite (Blue), South Africa	725	633
Chrysotile, Crude, South Africa	60	60
Chrysotile, Spinning Fibers, Canada	1,565	1,556
Yugoslavia	827	..
Chrysotile, Other, Canada	42,421	54,141
Yugoslavia	826	..
Other Crudes & Fibers, Canada	50	..
Finland	586	496
Mozambique	..	30
Portugal	13	18
South Africa	213	100
	48,518	57,937

May unmanufactured asbestos imports were valued at $5,462,659.

June unmanufactured asbestos imports were valued at $6,868,251.

Manufactured Asbestos Goods:			MAY 1970
Asbestos Yarn, Slivers, etc.	Lb	286,721	$ 242,682
A-C Pipes, Tubes & Fittings	Lb	4,783,626	315,173
Asbestos-Cement Articles, Other	Lb	1,262,591	182,370
Asbestos Articles, Other		..	153,783
			$ 894,008
			JUNE 1970
Asbestos Yarn, Slivers, etc.	Lb	371,255	$ 278,692
A-C Pipes, Tubes & Fittings	Lb	7,873,454	391,055
Asbestos-Cement Articles, Other	Lb	2,338,631	320,227
Asbestos Articles, Other		..	186,899
			$1,176,873

Increasing the Unit Viscosity of Asbestos-Cement, by Y. S. Grizak, written in the Russian language, appeared in the May 1970 issue of "Construction Materials." For information concerning the availability of copies of the article, contact the National Public Library for Science and Technology, 12 Koznetskii Moct, Moscow K-31, USSR.

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Exports From U.S.A.

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

Unmanufactured Asbestos:		JUNE 1970	
Crude & Spinning Fibers	s. tons	197	$ 42,979
Non-Spinning Fibers	s. tons	760	98,604
Waste & Refuse	s. tons	2,828	365,007
		3,785	$ 506,590
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,578,102	$ 156,197
Other Asbestos-Cement Articles	Lb	384,668	92,623
Asbestos Gaskets	Lb	37,989	45,875
Asbestos Packing	Lb	337,879	567,285
Asbestos Heat or Sound Insulation		..	185,048
Asbestos Textiles & Yarns	Lb	970,936	211,523
Asbestos Protective Clothing		..	3,852
Mfrs. Other than Friction Materials		..	189,565
Clutch Facings & Linings for Auto. Use	No	149,951	141,459
Clutch Facings & Linings, Other	No	230,963	41,149
Brake Linings for Automotive Use	Lb	410,870	272,565
Asbestos Brake Linings, Other	Lb	90,156	71,175
			$1,978,326

Exports From Canada

(Published by Dominion Bureau of Statistics) Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled GP 4&5	Shorts GP 6-9
Western Europe	5	1,046	20,222	12,242
Eastern Europe	..	38	2,878	413
Middle East	..	..	1,310	90
Africa	..	..	355	..
Asia	15	309	9,898	14,343
Oceania	..	..	3,045	499
So. & Cen. America & Antilles	..	60	5,175	1,686
United States	..	1,139	13,963	32,977
	20	2,592	56,846	62,250

The total amount of unmanufactured asbestos exported in *June 1970* was 121,708 short tons, valued at $16,974,000.

Manufactured Asbestos Goods:	
Asbestos Brake Linings & Facings	$ 56,000
Asbestos-Cement Building Materials	211,000
Asbestos Basic Products, Other	173,000
	$ 440,000

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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.

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INDUSTRY NEWS

HAPPY BIRTHDAY

E. G. Robinson, Vice President, Minorex Ltd., subsidiary of Asbestos Corporation Ltd., Toronto, Ontario, Canada, November 15.

J. J. Mangan, President & Managing Director, Hedman Mines Ltd., Timmins, Ontario, Canada, November 16.

E. W. Russell, Operations Manager, Bennettsville Works (South Carolina), Thermoid Division, H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, November 17.

Thornton R. Smith, Controller, Johns-Manville Corporation, New York City, November 19.

Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Ltd., Johannesburg, South Africa, November 19.

J. J. Walsh, Vice President-Sales, Canadian Asbestos Co., St. Laurent, Montreal, Quebec, Canada, November 19.

Philip E. Holmes, Vice President & General Manager, Pacific Asbestos Corporation, San Francisco, California, November 20.

H. C. Papritz, Vice President & Treasurer, Nicolet Industries, Inc., Ambler, Pennsylvania, November 21.

J. A. D. Marcotte, Honorary Director, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, November 22.

Louis J. Knippa, Vice President-Manufacturing, Philip Carey Co., Cincinnati, Ohio, November 24.

Ernest J. O'Leary, Director & Senior Vice President, GAF Corporation, New York City, November 24.

J. T. Ward, Superintendent of Vancouver Operations, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, British Columbia, Canada, November 24.

William H. Parker, General Manager, Cold Storage & Wall Insulation Division, Canadian Asbestos Co., St. Laurent, Montreal, Canada, November 25.

John G. (Jack) Ordway, Jr., President, MacArthur Co., St. Paul, Minnesota, November 29.

Frank G. Ruggles, President, Frank G. Ruggles Co., Inc., Short Hills, New Jersey, December 2.

Edmund F. Gorton, General Manager, Asbestos Corporation of America, Garwood, New Jersey, December 3.

K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.

J. V. Jones, Executive Vice President, Armstrong Cork Co., Lancaster, Pennsylvania, December 4.

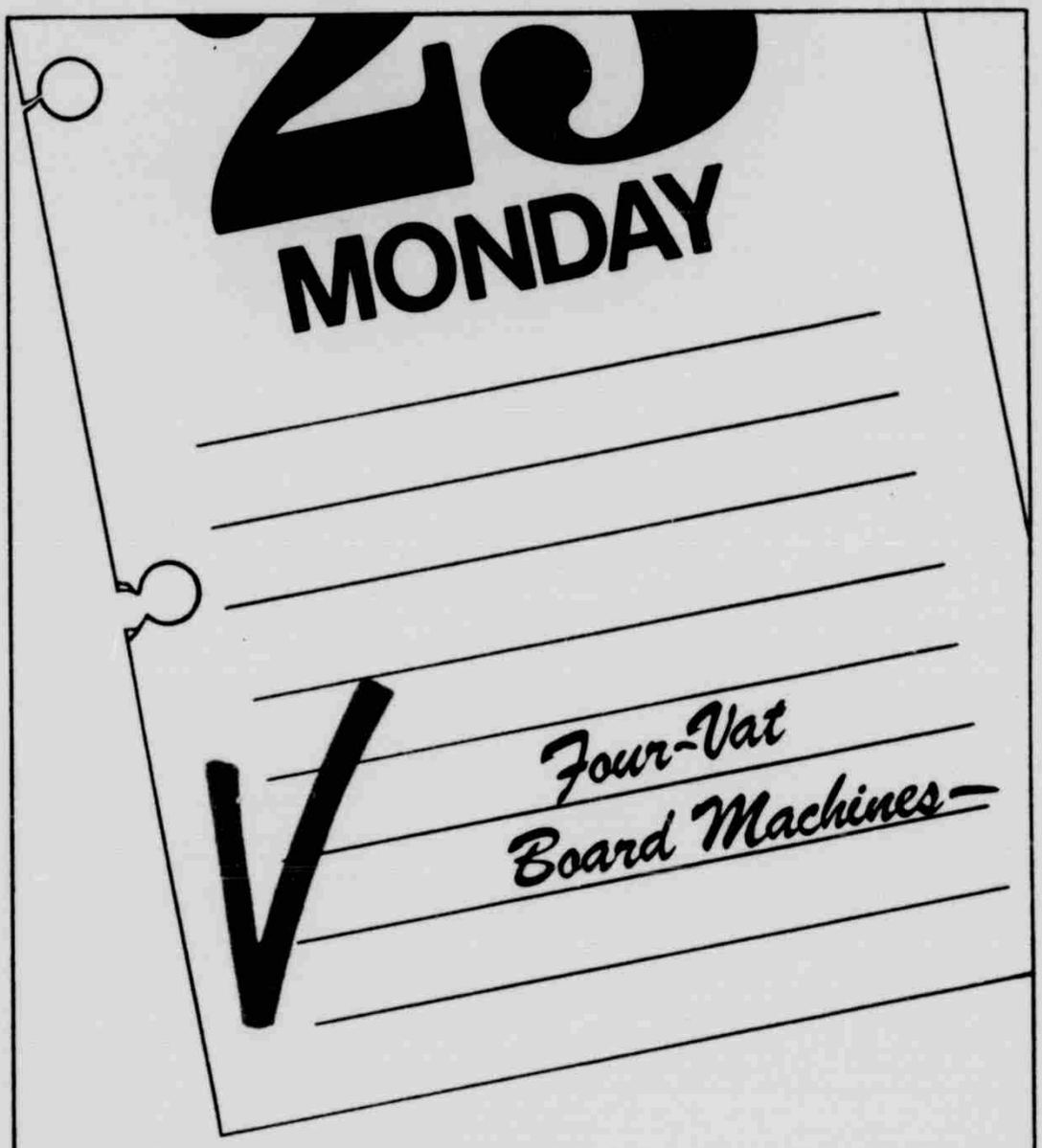
George H. Martens, Jr., Corporate Vice President for Marketing, Johns-Manville Corporation, New York City, December 5.

John Hasselbach, Vice President-Sales, Philip Carey Co., Cincinnati, Ohio, December 8.

J. C. McKendry, President, Niagara Asbestos Co., Buffalo, New York, December 10.

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

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Abitibi/Minbanco Asbestos Project—A Feasibility Study on the asbestos project owned equally by Abitibi Asbestos Mining Co. Ltd. and its partner Minbanco Corporation concludes that the deposit is a valuable and viable ore body. The property is located on the Amos-Matagami Highway, 52½ miles north of Amos, in northwestern Quebec, Canada. Conducted by Kilborn Engineering Ltd. in cooperation with Mr. Gordon H. Gibbs Consulting Mining Engineer, and Dr. W. N. Ingham, Consulting Geologist, the feasibility study covers geology, ore reserves, mining method, processing and size of plant, marketing, operating costs, overall costs and cash flow.

Open pit ore reserves are calculated at 105 million tons with a content of 4% of high-quality, cement grade fibers of Groups 4, 5 and 6 having a value of $7.00 per ton of ore in situ. A deposit of this size will support a 13,000 ton per day processing plant for 25 years and will annually produce about 160,000 tons of asbestos fiber. Overall operating costs including mining, milling, marketing, freight equalization and delivery to railhead amount to $3.00 per ton of ore. It is anticipated the approximate distribution of the Abitibi fiber would be 40% to Europe, 40% to the United States and 20% to Asia.

The geology of the deposit indicates that additional surface diamond drilling could increase open pit ore reserves by 20% without affecting the present waste to ore ratio of 1.7 to 1.0. The ore body is also open at depth and may be considered for future mining.

Total cost estimates to bring the project into production range from $57 million to $81 million, depending on the method adopted for removal of overburden. It is acknowledged that further study of the overburden (approximately 100 feet of clay and silt) will be necessary to determine the best overburden removal procedure. Three practical methods have been considered: using tower excavators (drag line principle), using hydraulic cutter-head suction dredges, and using conventional shovels, tractors and trucks.

The executive officers of Abitibi Asbestos and Minbanco have opened serious negotiations with major mining interests with a view to bringing the property into production in the shortest time possible.

Pacific Asbestos/Woodsreef Mines—Upon his return from a business visit to Pacific Asbestos Ltd.'s new Australian subsidiary, Woodsreef Mines Ltd., Mr. R. H. Bullied, President of Pacific Asbestos, informed shareholders that concrete pouring will begin in November for the foundation of the company's 5,000 ton per day asbestos plant near Barraba, in New South Wales, Australia. The $18 million plant is expected to be in production by the end of 1971 and will have the capacity to annually produce 70,000 tons of asbestos fiber. Mr. Bullied also advised that because of increased market potential for asbestos in the Pacific Basin, consideration is already being given to enlarging the capacity of the plant.

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Ferodo Ltd., a manufacturer of brake and clutch linings and member of the Turner & Newall Group of Companies, is opening a subsidiary sales company in West Germany. The new company, *Ferodo GmbH*, will operate from 14 Hildastrasse and will be managed by Mr. Gunter Groll. During its first year of operation, the sales firm will not only concentrate on the original equipment market but will also conduct an investigation to formulate a detailed plan for the establishment of Ferodo products in the German replacement market.

The opening of the new subsidiary will strengthen Ferodo's Common Market position by coordinating sales in the German market of friction materials manufactured by Ferodo Ltd.; Ferodo Italiana, S.p.A.; and Societe Anonyme Francais du Ferodo.

ASTM Method D2589 for Bauer-McNett Classification of Asbestos Fiber has been adopted as a Standard and is published in Part 25 of the ASTM Book of Standards. The method was sponsored by Subcommittee D30.03 on Asbestos and Naturally Occurring Fibers.

ASTM Standard Revised—The American Society for Testing and Materials has revised *Standard D628 70—Method of Testing Asbestos Tubular Sleeving* to cover both specification and methods of test for woven and braided asbestos tubular sleeving having a minimum of 75% asbestos fiber by weight.

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NOTES FROM 1969 ANNUAL REPORTS

JOHNS-MANVILLE CORPORATION

In 1969, total net sales, at $583,606,000, set a new high for the 10th consecutive year and record net earnings totaled $41,505,000, a modest improvement over the previous record set in 1968. The year's financial results were favorably affected by product penetration in growth market areas, efforts to reduce the cost of doing business, and a moderate improvement in selling prices. Gains also reflected, to a significant degree, company efforts to broaden and diversify its product lines. Products added during the past five years accounted for $143 million, or 25% of the sales volume in 1969. Capital expenditures totaled $36.9 million, the highest in the past ten years.

Construction Materials

Sales of construction materials accounted for $392 million, or 67% of total volume. The multi-billion dollar home modernization and improvement market and the rapidly-growing mobile home industry partially offset the dip in housing starts, especially in roofing, siding, wall, insulation, ceiling and flooring products. The sale of J-M construction pipe products was ahead of 1968 levels and the sale of these products in Canada remained relatively stable despite a moderate slowdown in the rate of Canadian economic growth.

Research and development programs led to the introduction of several new and improved products.

Industrial Products

Industrial product sales, valued at $119 million or 20% of total 1969 sales, reflected expanded U.S. capital spending for new plants and equipment. Motor vehicle production created a healthy market for J-M clutch facings, brake linings and fiber glass hoodliners. COBRA High Speed Brake Shoes, a recently-developed formulation for railroad composition-type braking block, gained increased acceptance for both standard and high-speed service. Continued high consumer demand for new appliances during 1969 improved the sale of J-M industrial insulations used in refrigerators, freezers and air conditioners.

Many new or improved products were added to the company's industrial lines in 1969.

Raw Materials and Mining Activities

Total shipments of J-M raw materials (asbestos, diatomite and perlite) rose 4% over 1968 levels. Sales to outside customers accounted for $73 million, or 13% of total company sales volume. Increased demand for asbestos fiber by J-M plants and customers in the domestic market indicate a higher rate of production in the manufacture of asbestos-based building materials. Asbestos fiber is also being used in latex backing paper for vinyl roll goods flooring and as

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a reinforcing agent for plastic parts used in the automotive industry.

Exploratory evaluation of an undeveloped asbestos orebody in Garrison Township, Ontario, Canada, was continued during the year. It is anticipated that the commercial potential of this property will be determined during 1970.

Geological evaluation continued on three prospects involving uranium in Quebec, platinum in Montana and molybdenum and uranium in British Columbia.

Work was completed in mid-1969 on expansion of diatomite processing facilities at Lompoc, California.

Profit Improvement

Installation of new and improved equipment, better utilization of manpower and services, and materials substitution reduced costs by $9 million.

Production operations were consolidated in 1969 to increase efficiency and reduce product lines, resulting in the sale of plants at Joliet, Illinois; Marshville, North Carolina; and Cartersville, Georgia.

Operations of Crown Tuft Carpet, Inc., a wholly-owned subsidiary, were expanded at Spring Place, Georgia. At Denison, Texas, facilities were completed for the manufacture of FLEXTRAN pipe. Additional production equipment was installed at Manville, New Jersey, to meet increasing requirements for extruded asbestos-cement products for architectural applications.

New Structural Concept

J-M development work resulted in an entirely new concept in integrated ceiling-roofing systems. Under a Study of Education Facilities contract specification, the Canadian Products Division developed a modular ceiling-roofing structural system engineered to provide high quality, fire safety and cost-saving in school construction. The ceiling portion is composed of a grid arrangement that combines FIREDIKE mineral board acoustical panels, lighting fixtures and air diffusers. The roofing portion of the system utilizes J-M asbestos felts, ASBESTOGARD vapor barrier and FESCO roof insulation board.

Environmental Control & Health Research

In 1969, at a cost of $1.3 million, J-M completed work on 17 air and water purification projects at 15 plant and mine locations. Working under a cost sharing grant by the Federal Water Pollution Control Administration, J-M engineers designed a filtering system that permits the re-use of all process water.

Johns-Manville continued to cooperate with and, in many instances, sponsor scientific research projects to identify and control occupational exposure to health risks, especially those involving asbestos. J-M research scientists have developed a new and more efficient filtering media for disposable face masks to be worn by insulation workers. Several leading mask manufacturers have been licensed by J-M.

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PERSONNEL NEWS

JOHNS-MANVILLE CORPORATION

Don L. Hinmon was appointed to the new position of Corporate Vice President for the Pipe Division. He will concentrate on growth planning in the pipe business, especially in the areas of water pollution control and irrigation, and will seek expansion opportunities via acquisition and internal product development.

Monroe (Moke) Harris, formerly Assistant General Manager, succeeded Mr. Hinmon as General Manager of the Pipe Division. He will be responsible for administering overall production and sale of J-M's lines of Transite (asbestos-cement), plastic and Flextran pipes.

NATIONAL GYPSUM COMPANY

David G. Stenberg was promoted to President of the Huron Cement Division, succeeding *Alfred E. Douglass, Jr.*, who elected to take early retirement. Mr. Stenberg joined National Gypsum in 1939 and held various positions, the most recent being Vice President of Marketing and Sales for the Division.

PHILIP CAREY COMPANY

C. A. Cinaglia was appointed Plant Manager of Philip Carey Company's plant at Linden, New Jersey. Prior to joining the Panacon organization, Mr. Cinaglia was employed by Nicolet Industries, Inc., as Superintendent of its plant at Norristown, Pennsylvania. He has spent most of his professional life in the manufacture of asbestos papers and at one time had been a Superintendent at the Linden plant when it was operated by Smith & Kanzler Company.

UNIROYAL, INC.

Harold N. Barrett was appointed Divisional President of the Uniroyal Consumer Products Company and will be responsible for the Division's consumer-oriented products such as footwear, clothing and golf equipment. He was succeeded as Divisional President of the Uniroyal Tire Company by *Claude H. Allard*. *W. Herbert Schmalz*, previously Managing Director of Uniroyal operations in the United Kingdom, succeeded Mr. Allard as Divisional President of Uniroyal International and is responsible for overseas operations.

Edwin A. Martin was appointed Divisional President of the Uniroyal Plastics and Industrial Products Company. This Division is responsible for such products as ABS plastic materials, vinyl products, cellular plastics, conveyor belts, hose and similar items.

As the new Director of Marketing, *Fred C. Phillips* will be responsible for all sales, advertising and other marketing activities of the Uniroyal Fiber and Textile Division. He will be located at the Textile Administrative Center, Winnsboro, South Carolina. Mr. Phillips joined the company in 1947 and his latest assignment had been Marketing Manager for Industrial Textiles.

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ASBESTOS STOCK QUOTATIONS

Close—September 25, 1970

Abitibi Asbestos	*$4.50	Grace	29½
Advocate	**$1.92	Gulf & Western	17
Asarco	27⅛	G&W (pfd 1.75)	59
Armstrong Cork	27⅞	G&W (pfd 3.50)	71⅝
Armst Cork (pfd 3.75)	52	G&W (pfd 3.87)	42
Asbestos Corporation	*$28.00	G&W (pfd 5.75)	55½
Bendix	27¾	Illinois Central	26⅛
Bendix (pfd 3)	45	Ill. Central (pfd 3.50)	46
Carlisle	14	Johns-Manville	35
Cassiar	*$22.00	Maremont	10⅛
Cerro Corporation	18⅛	National Gypsum	21½
Certain-teed	20½	Natl Gypsum (pfd 4.50)	58¾
C-teed (pfd .90)	21	Panacon	2⅛
Conwest	*$12.00	Porter (pfd 5.50)	62¾
Flintkote	26¼	Raybestos-Manhattan	24⅞
F-kote (pfd-A 4.50)	70	Royal Industries	7
F-kote (pfd-B 2.25)	35½	Unarco	9⅛
GAF Corporation	11¼	Union Carbide	38
GAF (pfd 1.20)	18⅝	Uniroyal	17⅜
Garlock	16½	Uniroyal (pfd 8)	98¼
		United Asbestos	3¼

*Canadian currency
**Canadian currency; Close—September 22
(Sources: The Wall Street Journal & The Northern Miner)

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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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General Statistics for Industry Groups and Industries, from the "Annual Survey of Manufactures, 1968" is available from the U.S. Bureau of the Census, Washington, D.C. 20233, at 25¢ per copy, as Report No. M68(AS)-1. The estimates for 1968 are based upon reports from a representative sample of about 65,000 manufacturing establishments included in the 1968 Survey. Among the industry groups covered are "Building Paper and Board Mills" under Standard Industrial Classification (SIC) Code 2661, "Asbestos Products" under SIC Code 3292 and "Gaskets and Insulations" under SIC Code 3293.

Buvoha Trade Letter—Many of our readers interested in making business connections with Dutch companies may find the 1970 edition of the Buvoha Trade Letter of value. A free copy may be secured by writing the Bureau Voor Handelsinlichtingen (The Commercial Intelligence Office), Oudebrugsteeg 16, Amsterdam 1, Holland.

Buvoha, founded in 1903 by the Netherlands Society for Industry and Trade, promotes business connections between Holland and foreign countries and has available the addresses of manufacturers, exporters, importers, wholesale dealers, agents, etc., in the Netherlands. Offers and demands from foreign firms are published free of charge in the "Buvoha Mededelingen," a bulletin distributed every three weeks throughout Holland to members of the Association. The Bureau offers its services with one condition: The foreign firms must supply references (one bank and two trade relations, with complete addresses).

PREPRINTS—1968 U.S. BUREAU OF MINES MINERALS YEARBOOK

The Mineral Industry of the Republic of South Africa—South Africa's mineral industry in 1968 was characterized by continued growth in most sectors. Mines producing a number of metallic and nonmetallic mineral commodities were undergoing expansion and new mines were under development. The mining sector (exclusive of platinum and uranium, data for which are not available) contributed the equivalent of $1.9 billion, or 13.6% to the Gross National Product of $14 billion.

A total of 18,303 people were employed in the South African asbestos industry. Production of asbestos fiber reached 236,350 metric tons and exports were valued at $40,218,000. Quantity of asbestos exports and imports were not listed for 1968 but the figures for 1967 were 234,020 tons exported (mostly to the United Kingdom, Japan and the United States) and 13,994 tons imported.

The Mineral Industry of Other Areas of Africa—Much of the data given on the various countries was not of sufficient enough interest to report. The only useful information was that 38,960 metric tons of asbestos were produced in *Swaziland* in 1968.

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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.

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

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Remember When?

(October 1920 ASBESTOS)

New Advertisers: Daniel R. Douglas & Co.;
Powhatan Mining Co.

An illustrated article described the testing and use by the Post Office Department of asbestos mail bags. The bags were actually removable linings for the cargo compartments of mail planes and each lining held eight of the largest regular mail pouches. Tests made by exposing the bags to a fire of oil-soaked wood shavings indicated that the contents were substantially undamaged during limited exposure.

Asbestos & Mineral Corporation was proposing the establishment of a museum of asbestos specimens in the new Gotham National Bank Building, New York, to which building they would shortly move their headquarters.

Theodore Bunte, the Chicago candy manufacturer, engaged in erecting a large new plant, was quoted as asserting new building sites should be selected with air transportation in mind since he believed the future would involve use of the airplane for handling light freight.

Victor S. Welsford, Chairman of Directors, African Base Metals Export Co., Ltd., Durban, Natal, South Africa, arrived in the United States on a business trip.

Raymond F. Corcoran, Commander, U.S.N., (Retired), was appointed Manager of Sales, Eastern District, for General Asbestos & Rubber Co., Charleston, South Carolina.

Plant Rubber & Asbestos Works, San Francisco, completed negotiations for the purchase of the factory and business of Merle Magnesia Mfg. Co., Redwood City, California. Merle was producing Carbonate of Magnesia by a novel process claimed to be more economical than other methods and Plant intended to enlarge the facility for increased production of 85% Magnesia pipe covering.

The death of Henry Berry, Vice President & General Manager of Canadian Asbestos Co., occurred in Montreal on September 13.

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CUT...



WET...



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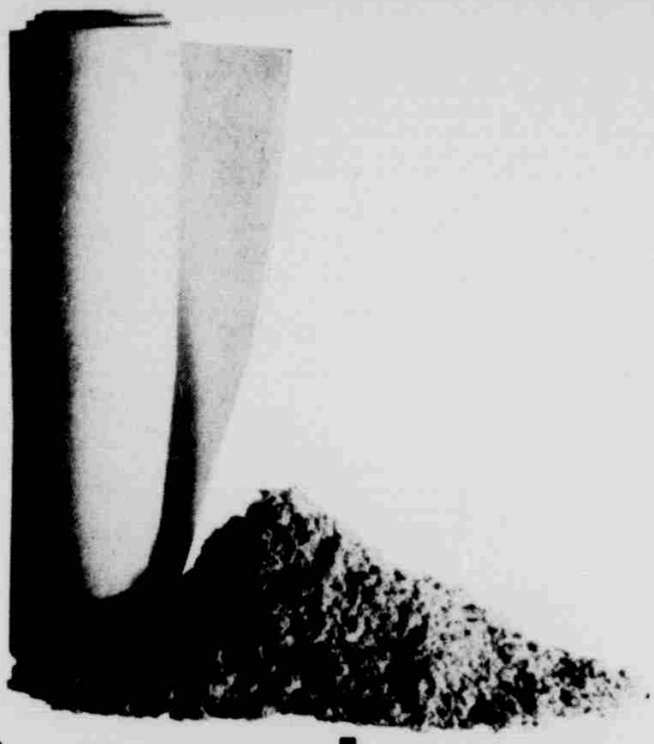
Speedlag is fitted and cut, then water-dipped to activate the integral adhesive, and placed in position—that's all. No coating of pipe and duct insulation with adhesive. And Speedlag's 100% inorganic adhesive serves as a filler, eliminating the need for sizing before painting. Speedlag is soft, pliable, lint-free.

Speedlag can be supplied in several weights and two ASTM Grades. Underwriters Grade base fabrics are manufactured to Fed. Spec. SS-C-466e, 7/2/64. AAA Grade base fabrics are available for insulation on merchant vessels covered by U. S. Coast Guard Specifications—Subpart 164.009.

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Two good starts...

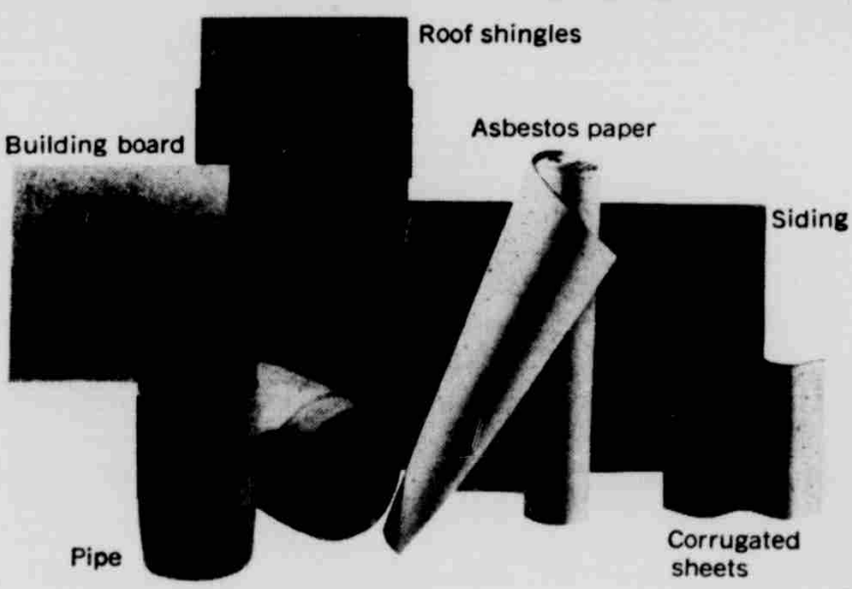
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