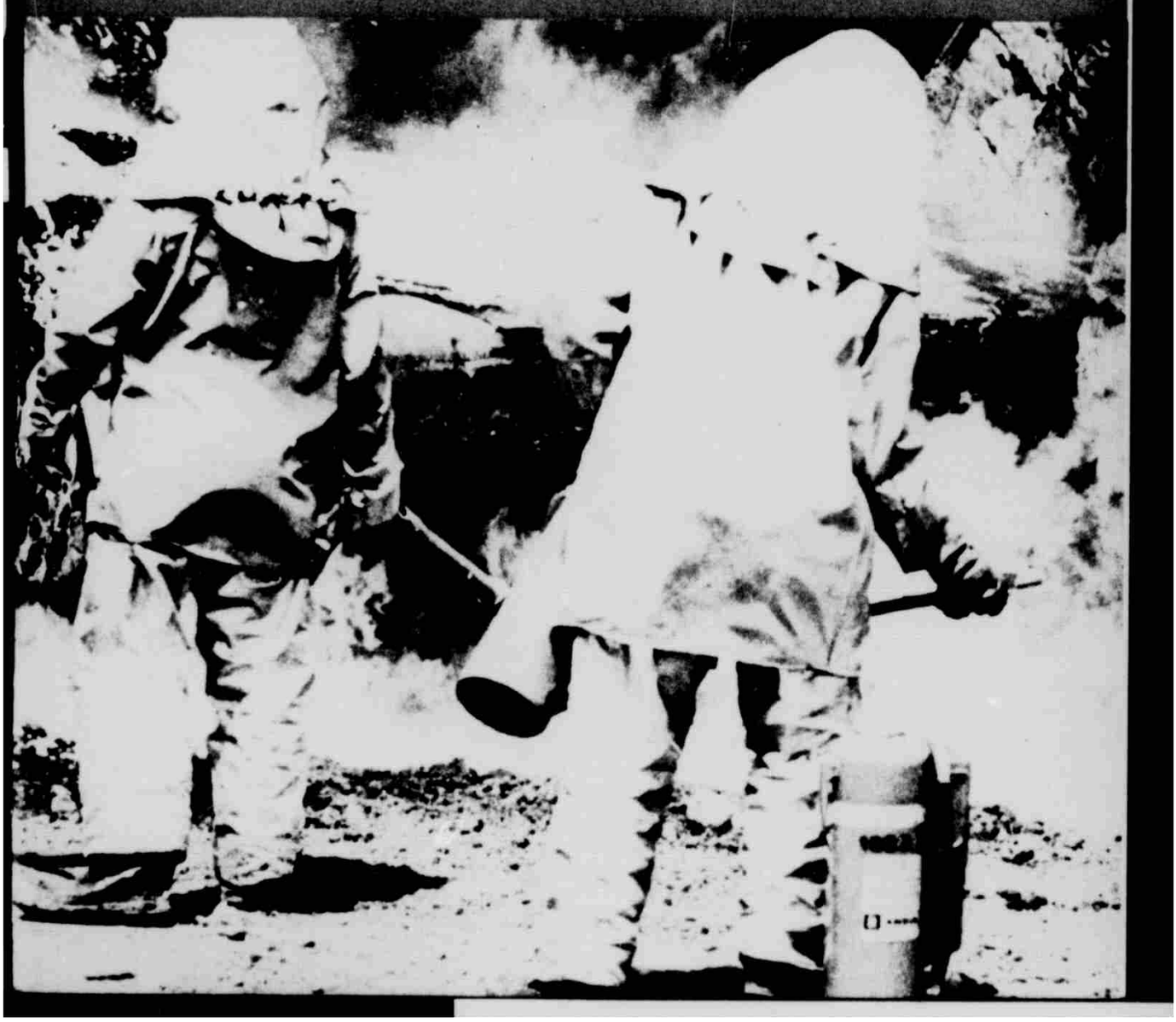
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ASBESTOS

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Textile History of Standco & Asbestos Textile (Gatke)
Birth of Scapa Textiles Ltd. & Development of A/C Felts



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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XII: Standard Brake Lining Company

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

This multi-million dollar company was founded in 1913 at Gleasondale, Massachusetts, by Charles W. Hanslip and his two brothers, Arthur and Joseph. The original capitalization was less than one thousand dollars. By 1920 Charles Hanslip had acquired control of the firm.

The plant wove and impregnated large sizes of industrial brake lining. The principal use for the giant asbestos-metallic tapes is to line brake bands on oil-well rigs. Common sizes run as large as 10" wide x 1¼" thick up to 12" wide x 1½" thick. These are external contracting brakes similar to those used on the rear wheels of most American-made automobiles and trucks up to about 1925.

During the years before World War II Standco purchased its yarn requirements from several asbestos textile manufacturers, principally from Carolina Asbestos Company at Davidson, North Carolina, and from Southern Asbestos Company at Charlotte, North Carolina. Charles Hanslip was sufficiently foresighted to realize that asbestos textiles would become a critically scarce commodity in the event of a prolonged war. In preparation, he began to install asbestos carding and spinning equipment in his weaving mill at Houston, Texas. Starting with one set of cards the Department grew to eleven sets. Whitin L frames were used for spinning. The Texas location had the advantage of being close to the market for the product but it proved a difficult area in which to start up a textile mill. At that time there was not a pool of experienced textile workers from which to draw. Each employee had to be taught his or her job.

There is a second and quite separate Department at Houston which provides a unique service to the oil-well industry. Standco produces giant-sized cap screws and hexagon nuts which are milled from solid bar on oversized lathes. Standard bolt sizes run ½" to 6" in diameter and up to 30" in

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Asbestos down on the farm.

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length, with gargantuan-sized nuts to match.

The company experienced a bonanza during World War II. On orders from the War Production Board, Standco's looms operated 24 hours per day and wove nothing but oil-well brake lining. Petroleum fueled the American war machine and Standco brake lining was essential to the operation of most wells.

By 1940 the "Standco" brand name had become the well-known company identification and the name of the firm was changed to Standco Brake Lining Company. In 1954 the name was again changed—to Standco Industries, Inc.—in recognition of the company's diversified activities.

The officers of Standco in 1965 included C. W. Hanslip as President and Chairman, James M. Dunn as Executive Vice President, R. V. Hanslip (son of the President) as Vice President and B. O. Stephens as Secretary-Treasurer.

In 1966 cloth looms were added to the Textile Department and George Griswold was engaged to promote the sale of asbestos cloth and tape to the industrial trade. [Mr. Griswold is now Project Manager for Nicotex, Inc., a subsidiary of Nicolet Industries, Inc.]

In 1968, at the age of 77, Charles Hanslip decided to retire. He sold the company to a group of investors headed by Alfred J. Simmons, President of Plymouth Plastics Company, Sheboygan, Wisconsin. Robert Hanslip left the firm shortly thereafter. The present officers are Alfred Simmons, President and Chairman of the Board; Foster W. Irish, Vice Chairman; Joseph A. Hitchiner, Executive Vice President; George M. Johnson, Vice President and Treasurer; Martin Clemmons, Vice President-Fasteners and Assistant Secretary; James Dunn, Vice President-Friction Materials; Cora Simmons, Secretary; and Gordon M. Munson, Controller.

Under Vice President Jim Dunn, a warehouse distributor chain has been established in most major oil fields. Standco was providing brake band exchange service to the oil-producing industry long before the practice became standard in the automotive industry. The success of the Standco organization is based on its woven and molded brake blocks that are tailor-made for oil-well service. Standco brake blocks have assisted in the drilling of every well over 20,000 feet deep on the North American continent and, in fact, are

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currently in operation in Oklahoma, at the world's deepest projected well (28,000 feet).

Chapter XIII: Asbestos Textile Company, Inc. (Division of the Gatke Corporation)

The Asbestos Textile Company is one of the oldest asbestos textile manufacturers in the United States. Arnold Koehler, after disposing of his family-owned brewery, founded the company in 1915. The original mill at Reynoldsville, Pennsylvania, was operated by Harry and Max Greenblatt. Principal products were asbestos roving, yarn, cloth and tape.

Edwin Waite and Rudolph L. R. Wilde were associated with the Asbestos Textile Company prior to 1917 but in that year they resigned to form the Waite-Wilde Asbestos Company at Framingham, Massachusetts.

In 1920 the mill was moved to its present location at North Brookfield, Massachusetts. At that time Massachusetts was a center of textile mill activity.

Herbert Walker came to this country from England in 1922 to set up and operate a compressed Asbestos Sheet Department. About 1925 he and William Forbes left Asbestos Textile to found the Allpax Company at Mamaroneck, New York. This veteran packing manufacturer is still in operation.

Oscar Trumbull joined Asbestos Textile Company in 1927 as Plant Manager. He had been with Belmont Packing Company. Five years later, in 1932, he was appointed General Manager and held that position until 1936. In October 1936 he left Asbestos Textile and went with Crane Packing Company. From 1939-1940 Mr. Trumbull was with Raybestos-Manhattan, Inc., at Manheim, Pennsylvania. From 1942-1947 he was associated with Greene, Tweed & Company at North Wales, Pennsylvania. He returned to North Brookfield in 1947 and ran the mill until his retirement in 1968.

Thomas Gatke purchased the Asbestos Textile Company in 1932 and the mill has operated as a Division of the Gatke Corporation since that time. Under Gatke management the line of products manufactured at North Brookfield was enlarged with the addition of molded brake lining for passenger

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cars, brake blocks for trucks and buses and oil-well brake lining.

Herbert E. Sunbury had a short tour of duty with Asbestos Textile Company. He served as Factory Manager from October 1939 until March 1941. (The reader of this history of a small industry will no doubt be impressed with the constant inter-change of personnel between the various companies comprising the industry.)

Frank T. Gatke was employed at the North Brookfield plant from 1937 to 1947. Under his supervision the company installed a modern dust-collecting system. It is believed to be the first system which returned filtered air to the mill so as to maintain a constant and uniform air pressure in the plant.

During World War II the Asbestos Textile Company wove several million feet of 3¼" x .015" asbestos tape for the New England Tape Company of Hudson, Massachusetts. New England Tape impregnated the asbestos fabric with a water and flame-resistant compound. The impregnated tape was then used by wire and cable manufacturers in the construction of shipboard cable. Specifically, the asbestos fabric was spirally wound over the insulated and paired conductors so as to form the belt or fire wall in Navy specification cables.

During the years of American participation in World War II the production of the asbestos textile industry was under 100% allocation by the War Production Board. Asbestos Textile Company furnished thousands of pounds of asbestos roving to the wire and cable industry for use as a component of shipboard cable. Aztec asbestos cloth was used by the Boston and the Portsmouth Naval Shipyards as thermal insulation. Aztec sheet packing found its way into hundreds of wartime applications.

In April 1963 Thomas L. Gatke passed on. His son, Frank, assumed the Presidency of Gatke Corporation and still serves in that capacity.

The Asbestos Textile Company, Inc., continues to produce asbestos textiles, packings and friction materials to be merchandised as part of the comprehensive Aztec line.

Next Issue . . . .

Chapter XIV: Union Asbestos & Rubber Co.

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SPECIALIZED PROMOTION

SCAPA TEXTILES LTD.

Beginning with the April 1970 issue of ASBESTOS a series of new advertisements was started to announce the formation and special services of Scapa Textiles Ltd., engaged solely in the manufacture and sale of felts for the asbestos-cement industry. Later in the year Scapa Textiles published "The Running of Felts on Asbestos-Cement Machines," a booklet containing helpful hints to the user to obtain better performance. The new advertisements and the booklet have been effective promotional tools as well as informative and constructive and Scapa Textiles is to be commended for its productive campaign.

THE BIRTH OF SCAPA TEXTILES LTD.

Following the merger in 1968 of Scapa Dryers Ltd. and Porritts & Spencer Ltd., the Scapa Group then had plants in England, Canada and the United States and became one of the largest manufacturers in the world of industrial fabrics and felts to the paper board and allied industries. It was felt that the worldwide production of asbestos-cement products justified a manufacturing and selling unit devoted entirely to the research, production, service and sales of felts used in production of these materials. From this idea, Scapa Textiles Ltd. was born. However, such products were not new to the company as for many years Porritts & Spencer and Scapa Dryers had manufactured such felts and indeed Scapa Dryers had already embarked on a large scale expansion plan under the direction of Mr. J. Ford, who had joined the firm with this objective.

THE DEVELOPMENT OF FELTS FOR ASBESTOS-CEMENT MACHINES

For many years a very coarse felt with a cotton warp and a combined woolen and cotton weft was in general use. Although the woolen content was rapidly degraded by the

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highly alkaline nature of asbestos-cement furnish, it did enable the felt to pick up the layer from the vat, while the cotton yarn resisted the alkali and gave the felt whatever strength it had. Such felts were not considered by felt makers to be very scientific in design. Quality control in the 1930's consisted of casual inspection of perhaps one felt in a batch of six. A life of one week was highly desirable but seldom achieved.

In the late 1940's and early 1950's it was discovered that the addition of 20% nylon to the wool content increased the felt life to the desired one week—sometimes even two weeks. Felts containing 75-100% nylon were developed in the late 1950's and from that time on the design and control of such felts have remarkably advanced. Heat-setting techniques have removed the difficulties of stretch and size instability. The development of the needling process has made felts "ladder proof" and has provided a "third dimension" to help the felt designer.

Due to many new developments at Scapa in the past two years, Scapa Textiles Ltd. now offers improved fiber orientation, a wear-resistant surface to the underside of the felt, improvement of size stability and a quick start-up surface. Elaboration of these improvements is given below.

FIBER ORIENTATION

With the advent of the needled felt, fiber orientation became important. The fiber orientation of the nap, web or fleece on a needle-reinforced felt is in the lengthwise (or running) direction. In the batt-on-base type it is across the felt. Obviously a needle-reinforced felt is strengthened in the lengthwise direction and a batt-on-base type is given increased strength in the cross direction, but it was found that lengthwise fiber orientation on the underside of a felt made the felt more resistant to damage and to fiber shedding. This knowledge led Scapa to develop what it called the "balanced batt" felt, in which the fiber was oriented to suit a particular purpose.

A WEAR-RESISTANT UNDERSIDE

The increasing use of plastic-covered suction boxes and the consequent increase in felt life resulted in new develop-

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ments. Plastic coverings for suction boxes are good but expensive and although Scapa does not oppose installation of plastic coverings, it was led to consider incorporating a wear-resistant surface to the underside of the felt. This technique posed such problems as: Would filtration be interfered with? Would the felt blind more rapidly? Wear resistance is somewhat dependent upon a reduction of friction but if friction or adhesion were to be reduced on the underside of the felt, would the drive roll turn the felt? Eventually the problems were solved by fusing an extremely thin, porous, fibrous layer to the underside of the felt. Extensive tests have proved the value of this method and felts of this type are now available.

SIZE STABILITY

The wear-resistant property of the felt resulted in improved size stability and Scapa now makes felts that stretch no more than 0.50 meters during life. The characteristic is brought about by the fusing of the protective layer which prevents the relaxation that normally takes place in a synthetic felt.

QUICK START-UP SURFACE

Scapa realized that it was more important that asbestos cement producers should reach maximum production in a minimum of time rather than achieve a record felt life. Surface treatments give a quick start-up initially and by adding a surface of special fibers to the face of the felt, Scapa believes it has achieved the quick start-up characteristic through total life of the felt.

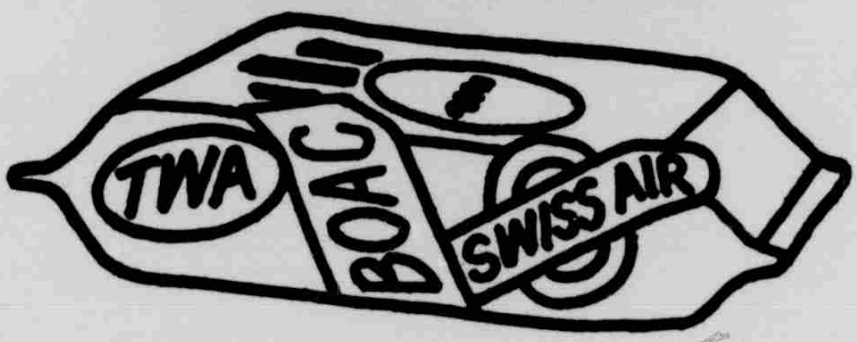
PRODUCTION & SALES

Scapa Textiles Ltd. operates its own separate factory at Bamford Mill, Bamford, Rochdale, England, complete with Sales, After-Sales and Development Departments and the most modern and sophisticated type of new machinery.

Extensive sales are made throughout the world and exports already amount to 60% of production. Sales figures for the year 1970 show Scapa Textiles' share of the felts produced in the United Kingdom to exceed 60%. The new

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The Worldly Asbestos



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firm manufactures, produces and is interested only in felts used for asbestos-cement manufacture, whether used on Hatschek, Mazza or Magnani machines. It follows the newly-established motto—Scapa sets the standards by which other felts are judged—and hopes to reduce felt costs per ton of product by such innovations as the aforementioned "wear-resistant underside" and the "quick start-up face."

ADDENDUM

Much of the data in this article was excerpted from Scapa Textiles' booklet "The Running of Felts on Asbestos-Cement Machines" and copies are available, free of charge, from the company to all interested parties. It is Scapa's hope the booklets will be distributed to personnel who operate the machines rather than be retained in the office. It was for these people that the "hints" were prepared.

Do you have a promotional story to tell? If so why not send it to us for publication in ASBESTOS. It will not only give your company a bit of publicity but will also be of interest and benefit to our readers in the Asbestos Industry.

THE COVER

Asbestos protects crash crewmen at the U.S. Naval Air Station, Miramar, California, as they cautiously move in to battle a roaring aviation gas blaze ignited in the hulk of an attack aircraft. Both light water and purple-K-powder are being used to extinguish the fire.

The safety clothing is treated with a highly-reflective aluminized surface and the base textile in the coats, trousers, gloves and hoods is asbestos cloth L-8610, manufactured by the Asbestos Textile Division of *Raybestos-Manhattan, Inc.* The asbestos fiber used in the cloth is of the Chrysotile variety, mined at the Cassiar Mine in British Columbia.

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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.

MISS DUSCHEK RETIRES FROM FMSI

Harriet G. Duschek, Executive Secretary of the Friction Materials Standards Institute, will retire effective September 1, 1971, having served the brake lining industry for 38 years. She first became associated with the industry in 1933 when she was Secretary to the General Manager of the NRA Asbestos Code. In 1941 she joined the Brake Lining Manufacturers Association (predecessor to FMSI). Through her efforts, essential information was accurately assembled and tabulated for FMSI's comprehensive data books on clutch facings and on conventional and disc brake linings and brake shoes.

During World War II, along with her regular duties, Miss Duschek prepared several manuals for the Federal Government concerning brake linings, clutch facings and industrial linings. In 1965 she worked closely with many top State officials in their efforts to establish brake lining standards. Her work in this area has continued on the Federal level.

Miss Duschek was honored by FMSI at its annual banquet and received many presentations in appreciation of her efforts for the Institute and for the automotive industry.

W. M. DECKMAN RETIRES FROM TBA

Walter M. Deckman retired April 30, 1971, as Resident Representative for U.S.A., Turner Brothers Asbestos Company Ltd., Rochdale, England, a subsidiary of Turner & Newall Ltd.

Mr. Deckman joined Keasbey & Mattison Company, Ambler, Pennsylvania, in 1929 prior to the time when K&M was owned by T&N. He subsequently served in the Sales District of Cleveland, Ohio, as District Manager of the New York area, and as General Sales Manager for K&M's Industrial Products Division. He became TBA's U.S. Resident Representative in 1962, when K&M ceased operations. Mr. Deckman was active in the Asbestos Textile Institute and served as a member of the Board of Governors in 1960-61.

Replacing Mr. Deckman as TBA's Resident Representative for U.S.A. is H. J. Corson, P. O. Box 221, Barrington, Illinois 60010.

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

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

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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 PRODUCER" REPORTS . . . .

If a recent discovery by a Toronto engineering firm works out, *wheat* may soon team up with *asbestos fiber* and *Portland cement* to make a low-cost, lightweight construction and insulation material. The technique involves "puffing" wheat kernels up to 40 times their original volume. When expanded, and then carbonized, the wheat is said to remain stable at temperatures up to 2000°C and when completely immersed in water . . . . *Plasterfast* is a new coating now in use by the construction industry in Canada. Composed of asbestos fiber, silica, mica, titanium and a bonding agent, it fills cracks and hides nail heads and scars and can be applied to concrete, cement, brick, metal, wood and other surfaces.

GOLD BOND PLASTI-CLAD PANEL

One of the newest looks in contemporary building design is the mansard roof, a 17th Century French roof styling noted for its elegance and sheer dimensional beauty. National Gypsum Company's existing line of quality exterior mineral fiber products is ideal for use in this type of roofing construction. One such product in the line is the *Plasti-Clad* panel, a premium grade, prefinished asbestos-cement sheet embossed with a pebble-textured pattern that adds surface interest while reducing light reflection.

THERMOID PRODUCTS

Thermoid Portersite-G, a glass insulation felt, has been introduced by the Thermoid Division. H. K. Porter Company, Inc. The new product complements the existing line of Thermoid Amosite insulating felt, offered in both woven and in knitted low-lint constructions. Basic materials utilized in the new insulation are glass mat with asbestos wire inserted thread as a binder . . . Thermoid also announced a new line of *Thermine* conveyor belting for underground mining. The construction of the belting is of the crimped warp type, with both warp tension bearing members and fill yarns crimped "criss-cross" over and under each other.

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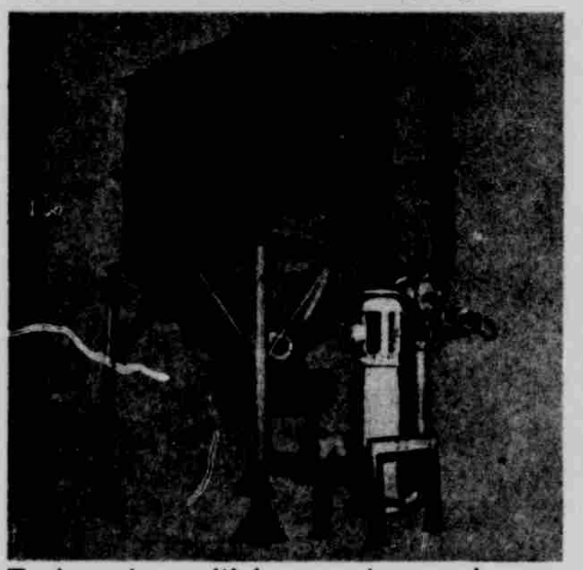
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Hydraulic lathe for pipe couplings



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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INDUSTRIAL HEALTH/POLLUTION CONTROL

NEW RESEARCH FOUNDATION

By arrangement with the National Coal Board, the Asbestosis Research Council has established an Asbestosis Research Council Foundation within the Institute of Occupational Medicine, Edinburgh, Scotland. ARC's intention is that research, which thus far has been conducted at various universities, should be concentrated at the Institute to provide closer contact between researchers in different disciplines, leading to a more effective use of the Council's resources.

WHEELABRATOR EQUIPMENT

Two brochures were announced by The Wheelabrator Corporation, Mishawaka, Indiana. Bulletin 578-D details the company's recently-developed line of Ultra-Dyne air pollution control equipment for effective collection of liquid particulate effluents from industrial processes. Bulletin 579-D describes design and operating features of Ultra-Jet pulse-type fabric filter dust collectors.

WHITECAP SYSTEMS

Personal Environment Systems, Inc., Glendale, California, proposes a solution to many on-the-job industrial pollution problems. Individual, self-controlled air purification and conditioning systems provide total protection to lungs, throat, head and eyes. "Whitecap Personal Protective Systems," as the units are called, consist of a fiber-glass hard hat helmet attached to a lightweight filter which delivers clean air to the wearer through a flexible kink-proof hose. A plastic face shield allows wide-angle vision, provides ample room for glasses or earphones, and is guaranteed not to fog. The company predicts widespread demand for the units especially in view of the new, rigid U.S. Federal Occupational Safety and Health Act.

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ASBESTOS SHORTS

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Because our ASBESTOS SHORTS are "clean", they disperse rapidly in asphalt and other materials . . . save you production time.

GRIT- AND WHISKER-FREE FOR SPRAYED UNDERCOATINGS

Careful quality control ensures that our ASBESTOS SHORTS are free of grit and other minute particles that clog spray equipment.

If you reinforce polyester moiding compounds, try our 7T SHORTS. They disperse well and have low resin demand. For more information or for test samples of our fibres, write to: Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada.

SALES AGENTS

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de Industria y Comercio S.A.

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

CALIFORNIA, Los Angeles
E. B. Taylor Company

CANADA, Montreal
Federated Metals Canada, Ltd.

CANADA, Toronto
Federated Metals Canada, Ltd.

COLOMBIA, Bogota
Holanda, Colombia, S.A.

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

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NEW YORK, New York
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Van Horn, Metz & Co., Inc.



ASARCO

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MARKET CONDITIONS

GENERAL BUSINESS

Despite some rather surprisingly good earnings reports by large corporations, the overall improvement in general business continues at a very sluggish pace. In fact, in mid-July, newspapers carried headlines indicating the Administration was admitting the failure of its "game plan" to get the economy rolling at previously predicted levels while simultaneously holding inflation in check. Interest rates have again risen and this may further dampen the already weak recovery. Several recent labor settlements have been made at figures in excess of the President's suggested guidelines and, even assuming a willingness of labor to accept these guidelines for the future, there will be many cases where, in fairness to those concerned, guideline figures will have to be exceeded to enable labor in certain industries or companies to "catch up" with those who, because of the timing involved, have already received larger than guideline increases. Whether "jawboning" will achieve the desired effect is questionable and there is still a considerable body of economists which is pressing for wage and salary ceilings as the only real answer to the cost-push inflation now being experienced. Because of the tremendous difficulty of enforcement, price ceilings seem completely impractical as a means of controlling inflation.

On the international political scene, seldom in recent years have so many significant things happened in so short a time. The Kissinger visit to China, a beautifully disguised mission, and President Nixon's announcement of plans to visit that country early next year are subject to many interpretations but we can only surmise they signal some definite progress toward ending the Vietnam war and resumption of diplomatic relations between the U.S. and Red China. Following these happenings come indications that the SALT talks are very close to achieving a treaty between the U.S. and the U.S.S.R. which could lead to a summit meeting between the leaders of these two world powers. These developments are most encouraging since it has been obvious for years that, one day, Red China must be admitted to the U.N. as a part of the family of nations and almost equally obvious

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...for Dryer Felt manufacturers

Dryer felts have got to be tough. So UNIROYAL developed extra tough asbestos yarns for the dryer felt industry that could be woven into felts capable of standing up under all the stresses and temperatures the users could muster.

If you're looking for an asbestos yarn engineered for stability and wear resistance, ask us for specifications. It's so good we don't call it asbestos. We call it ASBESTON®, which is another word for dependability.

UNIROYAL FIBER & TEXTILE
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that public opinion will not much longer support or *permit* a long continuation of the U.S. presence in Vietnam.

ASBESTOS FIBER

To the end of May 1971, Quebec asbestos shipments exceeded those in the same period of 1970 by approximately 8%. To some degree the higher volume of shipments in the first half of 1971 vs. 1970 reflects the effect of the announced price increase for all fiber grades on July 1st. However, the underlying demand is strong in most world markets.

The improved demand for asbestos fiber indicated last August in the United States and Canada was subsequently depressed by the General Motors strike. The period following the strike settlement has witnessed an increasing demand for most uses of asbestos. Increased activity in the construction industry in both countries together with higher automobile sales represent the major factors for the rise in demand.

The demand for asbestos in foreign markets is good although in Japan it is somewhat lower than this time last year. Expo 1970 provided Japan with a boom in construction and in other activity and a return to more normal levels is to be expected. Little change is noted in the use of asbestos in the developed countries in 1971 vs. 1970 and European countries are revealing relatively low growth rates. The developing countries are showing higher asbestos usage growth rates, although their total usage is still nowhere near their future potential.

The Asbestos Industry continues to be plagued by politicians and others who make irresponsible statements relating to the harmful effects to health when the public is exposed to asbestos. Despite the excellent investigative work done by the Industry and by many medical experts which show that asbestos is *not* harmful when dust conditions are within normal levels, the so-called experts, the publicity seekers and the politicians continue to relate half-truths and misleading statements which the press continues to print in the name of "news." This type of publicity can only result in doing harm to the Asbestos Industry and, in fact, the sprayed insulation industry has been badly affected by such adverse publicity. Asbestos fiber has such widespread use toward the benefit of mankind and yet these advantages can be easily destroyed by just a few publicity seekers.

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CONSTRUCTION NEWS

JUNE 1971 contracts for future construction totaled $8,076,653,000, 22% above the year-ago amount. The seasonally-adjusted Dodge Index advanced 4% in June to 147 (1967=100).

Nonresidential building contracts showed a strong 43% gain over the comparable 1970 month and totaled $2,799,939,000. Increases extended to every major category, with schools, hospitals and public buildings giving the best performances. Good residential gains should be a more common occurrence during the second half of this year as the economy continues to recover.

Residential construction again surged ahead to total $3,485,009,000, a 53% gain over June 1970. Part of the sharp year-to-date housing gain, like the increase in nonresidential building, is due to the comparison with depressed conditions that existed at this time last year. Seasonally-adjusted comparisons, however, reveal that the residential contracting figure in June is an all-time record.

Nonbuilding construction contracts were valued at $1,791,705,000, 26% below last June.

Cumulative construction contract value for the first six months of 1971 totaled $38,993,069,000: Nonresidential, $12,666,057,000, up 2%; Residential, $16,130,538,000, up 38%; Nonbuilding, $10,196,474,000, down 3%. This year's 6-month total was 13% above that for the same period in 1970. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

MAY 1971 motor vehicle factory sales from plants in the *United States* totaled 930,754 (passenger cars—767,340; trucks and buses—163,414). The cumulative total for the First Five Months of 1971 was 4,692,368 compared with 3,882,907 for the same period in 1970.

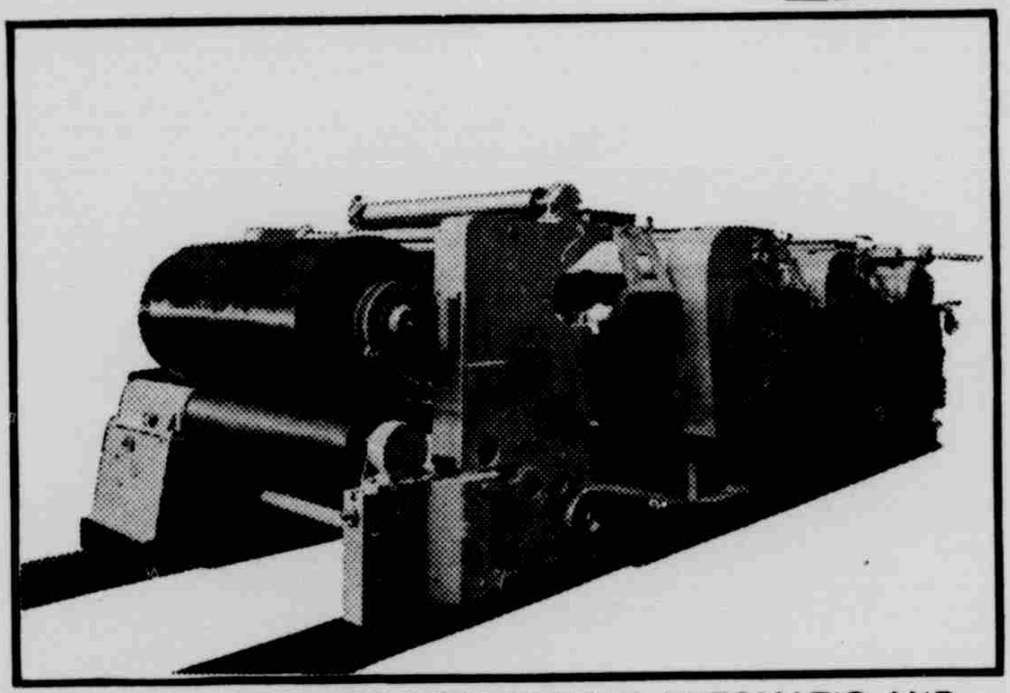
Motor vehicle factory sales from plants in *Canada* totaled 126,638 in May 1971. The cumulative total from January-May 1971 was 602,057 against 588,560 for the like period in 1970. [Automobile Manufacturers Association]

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ASP/HAC/19

asbestos cement *plants*





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When you compare prices, strength and expertise, 'Fabrene' still stacks up best.

'Fabrene' was the first coated polyolefin material to prove itself to the asbestos industry. And since it's been around longest, you might say it's more stable. And then there's the know-how that comes along with being the forerunner . . . and wanting to stay in front. And, the obvious strength of character that lets 'Fabrene' stand firm in the face of rot, chemicals, moisture, and all that pushing and pulling that goes on during warehousing and shipping.

What we're really saying is that 'Fabrene' has what you want and what your product needs: It has extra-ordinary strength, built right into its very fabric; and knowledgeable technicians to back it all up with suggestions and ideas to help you and your supplier make the most of its many advantages. So next time you order asbestos, ask your supplier to send it to you bagged in coated 'Fabrene' oriented polyolefin material. It's stacked in your favour.

'FABRENE'
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DUPONT
CANADA

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PRODUCTION—IMPORTS—EXPORTS

Australia—Production of non-acoustic asbestos-cement sheets from *July-December 1970* totaled 21,272,000 square yards, compared to 21,717,000 square yards for the same six-month period in 1969. [Commonwealth Bureau of Census and Statistics, Canberra]

Canada—Producers' shipments of asbestos during *April 1971* totaled 120,958 short tons (104,031 tons from Quebec plants and 16,927 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for April 1970 was 122,354 tons.

May 1971 shipments reached 145,006 tons compared with 138,131 tons the previous May. The breakdown for May 1971 is 128,364 tons from Quebec plants and 16,642 tons from plants in the other four Provinces.

January-May 1971 cumulative total was 595,729 tons, against 564,047 tons during the same five-month period of 1970. [Dominion Bureau of Statistics, Ottawa]

GOVERNMENT PUBLICATIONS

Products Shipped by Canadian Manufacturers, 1968 is now available from the Manufacturing and Primary Industries Division, Dominion Bureau of Statistics, Ottawa. The quantity of asbestos-cement boards and sheets shipped in 1968 amounted to 32,050,000 lbs. The figure for vinyl-asbestos floor tile was 180,932,712 square feet. Shipments of goods of own manufacture were valued at $3,805,350 for asbestos-cement boards and sheets, $1,625,435 for asbestos packing, $20,174,399 for vinyl-asbestos floor tile, and $2,132,336 for other asbestos products (including clutch facings). Among the products for which data were kept confidential are asbestos cloth, asbestos paper, asbestos-cement pipe and asbestos-cement shingles. The total value of shipments of goods of own manufacture in the entire report was $43,119,574,000. [Catalog 31-211; 75c]

Australian Mineral Industry, 1969 Review has been issued by the Mineral Resources Branch of the Bureau of Mineral Resources, Geology and Geophysics, Department of National Development, Canberra. Included in the literature is a chapter on *Asbestos*, by Z. Kalix, which gives information and statistics concerning asbestos production, imports, exports, consumption, prices, exploration and an overseas review. [$3.00]

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FLINTKOTE ASBESTOS



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That's us. The Flintkote Company. We recommend it to you too. After all, we use Flintkote asbestos in many Flintkote products. Like floor tile; roofing shingles; felts and building papers; industrial coatings; and pipe.

Flintkote asbestos makes lots of things better. Perhaps *your* products. Asbestos is inert, fireproof, non-oxidizing, moisture-proof, bug-proof. And inexpensive. Flintkote can meet and control production to exacting specifications.

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census — Short Tons

Unmanufactured Asbestos:	MAR. 1971	APR. 1971
Amosite, Mozambique	203	..
Republic of South Africa	913	1,437
Crocidolite (Blue), Canada	52	..
South Africa	187	704
Chrysotile, Crude, Canada	53	75
South Africa	160	110
Chrysotile, Spinning Fibers, Canada	937	972
Chrysotile, Other, Canada	61,064	59,129
South Africa	150	..
Other Crudes & Fibers, Canada	95	39
Finland	230	238
Mozambique	..	146
South Africa	30	70
United Kingdom	52	21
Yugoslavia	..	843
	64,126	63,784

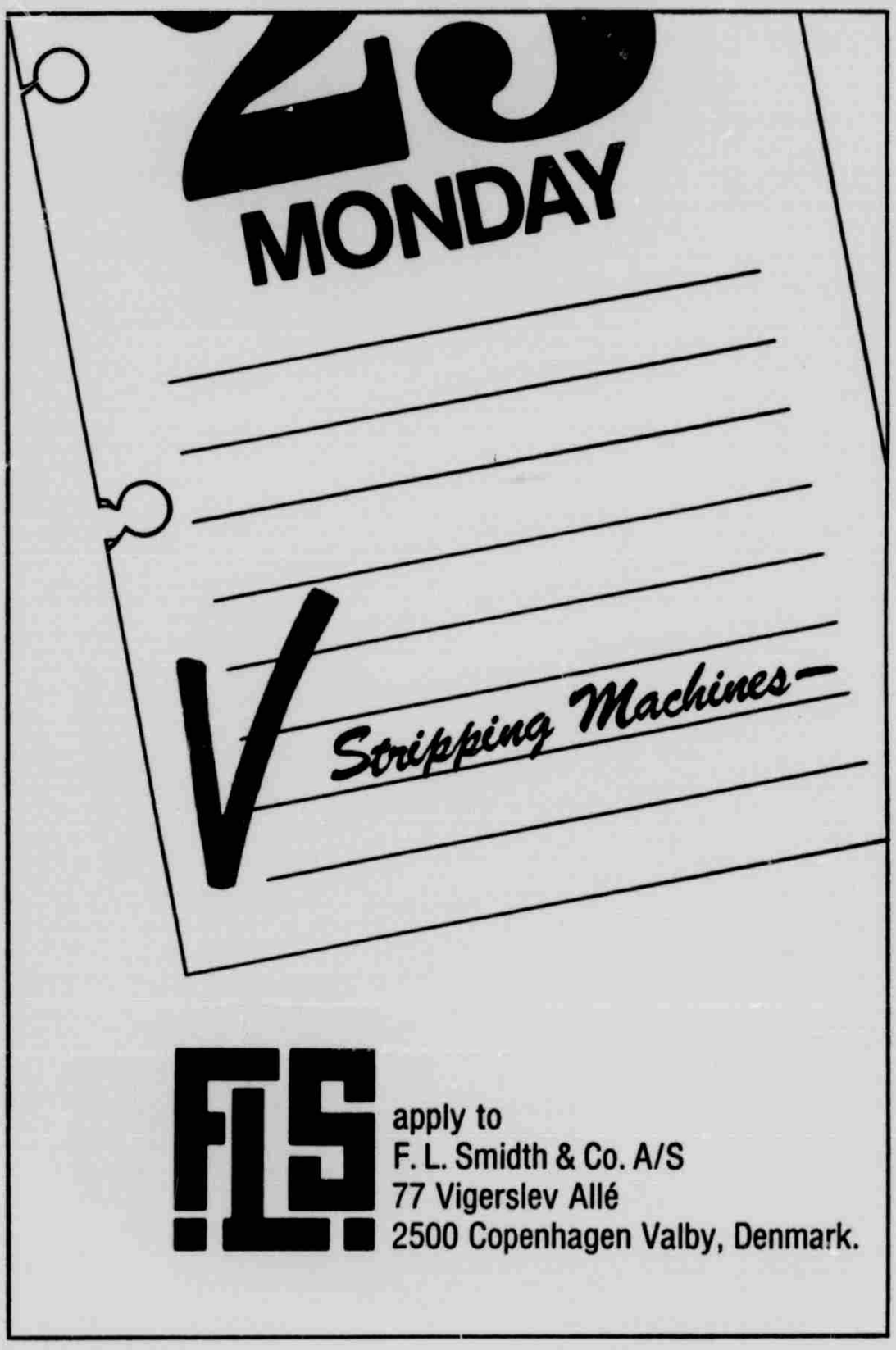
March unmanufactured asbestos imports were valued at $7,447,187.
April unmanufactured asbestos imports were valued at $7,261,971.

Manufactured Asbestos Goods:		MARCH 1971	
Asbestos Yarn, Slivers, etc.	Lb	278,316	$ 367,546
A-C Pipes, Tubes & Fittings	Lb	3,918,156	195,857
Asbestos-Cement Articles, Other	Lb	1,716,677	270,815
Asbestos Articles, Other		..	211,573
			$ 1,045,791
		APRIL 1971	
Asbestos Yarn, Slivers, etc.	Lb	338,670	$ 333,252
A-C Pipes, Tubes & Fittings	Lb	1,244,916	75,869
Asbestos-Cement Articles, Other	Lb	3,151,518	373,437
Asbestos Articles, Other		..	196,152
			$ 978,710

1967 CENSUS OF MINERAL INDUSTRIES

Although statistics on asbestos are withheld to avoid disclosing figures for individual companies, reports on the four asbestos-producing States are obtainable from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. When ordering please specify Report MIC67(2)-3 for Arizona (30c); MIC67(2)-5 for California (40c); MIC67(2)-32 for North Carolina (35c); and MIC67(2)-44 for Vermont (30c).

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census — **MARCH 1971**

Unmanufactured Asbestos:

Crude & Spinning Fibers	s. tons	761	$ 153,920
Non-Spinning Fibers	s. tons	1,460	240,471
Waste & Refuse	s. tons	1,391	156,812
		3,612	$ 551,203

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	2,106,761	$ 214,569
Other Asbestos-Cement Articles	Lb	383,034	70,093
Asbestos Gaskets	Lb	44,890	69,056
Asbestos Packing	Lb	539,466	632,153
Asbestos Heat or Sound Insulation		..	242,211
Asbestos Textiles & Yarns	Lb	769,904	273,376
Asbestos Protective Clothing		..	62,163
Mfrs. Other Than Friction Materials		..	221,521
Clutch Facings & Linings for Auto. Use	No	40,503	51,017
Clutch Facings & Linings, Other	No	73,153	39,378
Brake Linings for Automotive Use	Lb	714,056	427,110
Asbestos Brake Linings, Other	Lb	286,693	233,884
			$ 2,536,531

EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics — **MARCH 1971**

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	673	14,305	6,633
Eastern Europe	..	..	1,927	220
Middle East	..	..	306	200
Africa	..	..	2,970	..
Asia	2	121	3,435	3,431
Oceania	..	..	4,140	838
So. & Cen. America & Antilles	..	3	5,201	1,031
United States	1	992	16,262	40,584
	3	1,789	48,546	52,937

The total amount of unmanufactured asbestos exported in *March 1971* was 103,275 short tons, valued at $14,406,000.

Manufactured Asbestos Goods:

Asbestos Brake Lining & Facings	$	48,000
Asbestos-Cement Building Materials		201,000
Asbestos Basic Products, Other		264,000
	$	513,000

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ARIZONA ASBESTOS

Mined and Milled by

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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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MINERAL FACTS & PROBLEMS, 1970 EDITION

The fourth edition of "Mineral Facts and Problems" has been prepared by the Bureau of Mines, U.S. Department of the Interior. First published in 1956, the authoritative encyclopedia of U.S. mineral resources has established a worldwide reputation as a comprehensive source of current information on metals, minerals and fuels and on the industries that produce them. The 1291-page, 1970 edition discusses 88 mineral commodities and each commodity is covered in an individual chapter. Historical material in each chapter has been condensed wherever possible to provide space for new paragraphs on Environmental Considerations. Past editions have been "supply" oriented but the 1970 issue also deals with the forms and end uses of the materials. An expanded Outlook section features projections for alternate supply-demand relationships to the year 2000. More tables, charts and graphs have been used in the new edition to allow speedier comparisons and make it easier to spot trends and depict relationships. Clothbound copies are available, at $10.75 each, from the Manager, Public Documents Distribution Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120. Orders should specify both Stock No. 2404-0665 and Catalog No. 128.3:650.

Subsequent issues of ASBESTOS will carry excerpts from the Asbestos Chapter of the 1970 edition of "Mineral Facts and Problems." Topics to be covered will include industry pattern, technology, by-product/co-product relationships, consumption pattern, economic factors, environmental considerations, outlook and specific problems.

ASTM STANDARDS

ASTM D2946-71T—Tentative Definitions of Terms Relating to Asbestos. [New Tentative; Effective January 8, 1971; Reference Part 25; $1.25]

ASTM D2947-71T—Tentative Method of Screen Analysis of Asbestos Fibers. [New Tentative; Effective January 8, 1971; Reference Part 25; $1.25]

ASTM E119-71—Methods of Fire Tests of Building Construction and Materials. [Adopt Tentative Revision as Standard; Effective February 24, 1971; Reference Part 14; $1.25]

ASTM 1971 BOOK OF STANDARDS—Part 12: Chemical-Resistant Non-metallic Materials; Clay and Concrete Pipe and Tile; Masonry Mortars and Units; Asbestos-Cement Products; Natural Building Stones. Among the new Standards in this book are specification for asbestos-cement plastic-foam core insulating panels, specification for asbestos-cement storm drain pipe, and specification for asbestos-cement transmission pipe. [Publication Code Number 01-012071-10; 538 pages; 113 Standards; Hard Cover; $16.00]

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ASBESTOS

Kilborn-engineered asbestos projects in Canada, U.S.A., South America and Europe produce a total fibre output of 365,000 tons per year.

Kilborn services include marketing surveys, process and operating assistance, engineering and construction management for new plants and expansion programs.

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201-18 Berry Street, Sydney 2060, Australia

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ADAMS TO MINE IN CALIFORNIA

Archie Q. Adams was issued a use permit by the Siskiyou County Planning Commission that will allow him to mine and mill Chrysotile asbestos ore at Mt. Eddy, five miles southwest of Weed, California. Mr. Adams had previously undertaken road construction and core drilling under a five-year mining rights lease but work ceased when the lease expired in 1961. He has three separate deposits located in Siskiyou and Trinity Counties and hopes to immediately commence open-pit mining. The primary crusher, mining, drying and storage equipment will be capable of processing 2000 tons of ore per day. A mill is being constructed to daily handle 300 tons and with an expected 10% fiber recovery the anticipated daily production rate is 30-32 tons of fiber, sufficient to handle contracts he presently has with asbestos-using firms. The fiber has been tested and is reported to have strength and flexibility comparable to Canadian fiber, with about one-half the iron content of Canadian fiber.

BROKEN HILL EXPLORING

Broken Hill Proprietary Co. Ltd., Melbourne, Australia, is examining a Chrysotile asbestos deposit at Noddy Creek, 30 miles south of Strachan, on the West Coast of Tasmania. An exploration camp has been set up and the company advises it is studying the extent and quality of the ore.

GOLDEN AGE/ASARCO CONTRACT

Golden Age Mines Ltd. has executed a contract with **Asarco Exploration Company of Canada Ltd.** looking toward a joint effort to explore and develop the property of Kingsbury Asbestos Mines, wholly-owned subsidiary of Golden Age. Asarco Exploration is well under way with its program of testing the asbestos property located near Kingsbury, Quebec, some 15 miles south of Johns-Manville's Jeffrey Mine.

PATHFINDER COMPLETES MAGNETOMETER SURVEY

Diamond drilling is continuing on **Pathfinder Resources Ltd.** optioned asbestos property in the Eastern Townships area, near Richmond, Quebec, Canada. Thirty-two vertical holes drilled to an average depth of 500 feet and on 200-foot centers have been completed in the No. 1 zone. The entire property has been gridded and a magnetometer survey completed over the gridded area. The magnetometer has been successful in outlining eleven significant magnetic anomalies. The chances of developing additional asbestos reserves on the property are good. During the gridding of the property, four old widely separated trenches were discovered in which high grade asbestos up to one inch in length occurs. Bulk samples from the mineralized sections of the dumps to two of the trenches gave returns of 27% fiber. [Northern Miner]

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BIRTHDAY GREETINGS TO . . .

W. John Scotford, Technical Director, Wunderlich Ltd., Sydney, N.S.W., Australia, September 15.

Chester E. Shepperly, Vice President & General Manager, Residential Products Division, Johns-Manville Corporation, New York City, September 15.

William L. VanDerbeek, Vice President, Mining & Canadian Products Divisions, Johns-Manville Corporation, New York City, September 15.

Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.

Charles D. Harless, Vice President-Western Sales, Building Products Division, National Gypsum Company, Long Beach, California, September 17.

Albert Strodtbeck, Secretary, The Clark Asbestos Company, Cleveland, Ohio, September 17.

Walter F. Marcuse, President, Canadian Asbestos Company, St. Laurent, Montreal, Quebec, Canada, September 18.

D. M. Pearson, Vice-Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 18.

Arthur J. Steneri, Foreign Project Manager, Johns-Manville International Corporation, New York City, September 18.

J. D. Christian, President, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, Canada, September 19.

W. W. Oughtred, President & Chief Executive Officer, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, September 19.

William R. Whitener, Sales Manager, Atlas Asbestos Company, Alhambra, California, September 20.

Philip M. Malouf, President, United Asbestos Corporation Ltd., Montreal, Quebec, Canada, September 21.

Victor J. Laskoski, Marketing Manager-Asbestos Fibers, GAF Corporation, New York City, September 22.

Jay P. Nicely, Vice President-Sales, National Gypsum Company, Buffalo, New York, September 22.

Richard F. Dooley, Vice President, United Asbestos Corporation Ltd., Montreal, Quebec, Canada, September 24.

Jack B. Stiles, Works Manager, Wunderlich Ltd., Rosehill, N.S.W., Australia, September 24.

Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.

Robert Wunderlich, Marketing Director, Wunderlich Ltd., Sydney, N.S.W., Australia, September 25.

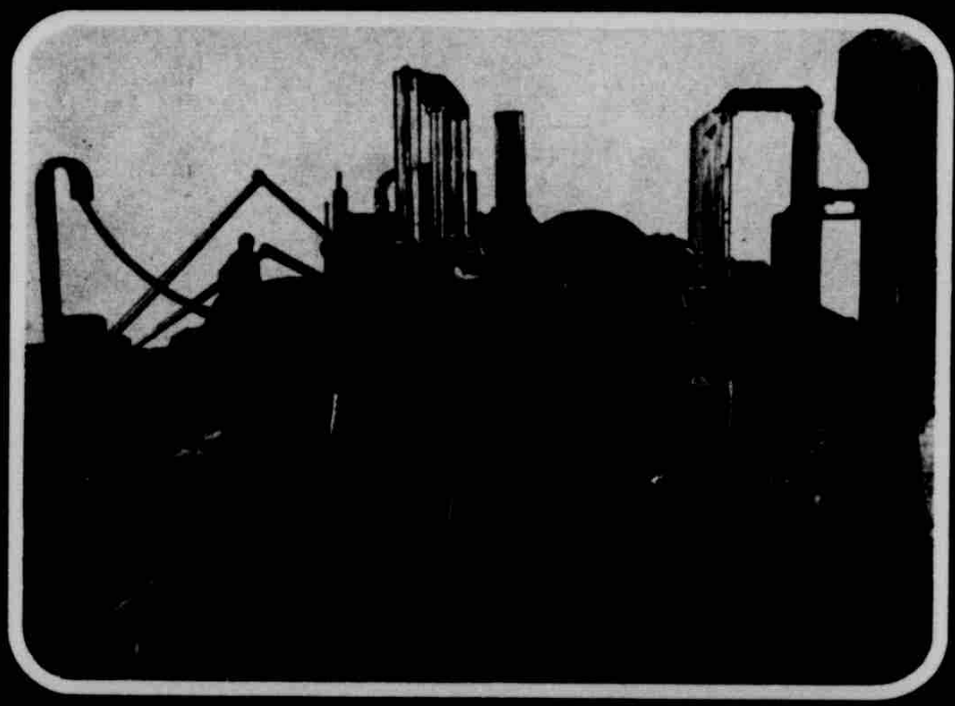
H. Leonard Falle, Director & Vice President-Marketing, Atlas Asbestos Company, Montreal, Quebec, Canada, September 26.

D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

Fred C. Phillips, Director of Marketing, Uniroyal Fiber & Textile Division, Uniroyal, Inc., Winnsboro, South Carolina, September 28.

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Sir William C. Fenton, Honorary President, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 29.

William K. Murray, Director of Advertising & Public Relations, American Smelting & Refining Company, New York City, September 30.

J. M. Bell, Plant Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, Canada, October 1.

Wolf E. Lehmann, General Manager, Europe, Africa and the Middle East, International Division, Johns-Manville Corporation, New York City, October 1.

Richard P. Stout, Director of Research & Development, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, October 2.

Donald A. Bain, Sales Manager, Asbestos Erectors of Canada Ltd., Montreal, Quebec, Canada, October 3.

C. M. Fox, Director, The Cape Asbestos Company Ltd., London, England, October 3.

William P. Raines, Vice President, Director of Public Affairs, Johns-Manville Corporation, New York City, October 3.

Richard P. Clark, Product Sales Manager, Uniroyal, Inc., Winnsboro, South Carolina, October 4.

W. D. Gaches, President, Johns-Manville Irrigation Corporation, Manasquan, New Jersey, October 4.

John G. Cole, Mine Manager, Advocate Mines Ltd., Baie Verte, Newfoundland, Canada, October 5.

Maurice Hartke, Plant Manager, Philip Carey Company, Linden, New Jersey, October 5.

P. C. Barr, Managing Director, Hindustan Ferodo Ltd., Ghatkopar, Bombay, India, October 6.

Dr. Eugene P. Stefl, Vice President-Administrative Assistant to the President, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, October 6.

F. A. Cunnington, Vice President-Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, October 8.

Edward A. Schuman, Product Manager, Sheets & Cut Gaskets, Johns-Manville Corporation, New York City, October 9.

A. H. Adams, Vice President-Engineering, The Bauer Bros. Co., Springfield, Ohio, October 10.

J. G. Berry, Director & General Manager, Cassiar Asbestos Corportation Ltd., Toronto, Ontario, Canada, October 11.

A. L. Penhale, Vice-Chairman, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, October 11.

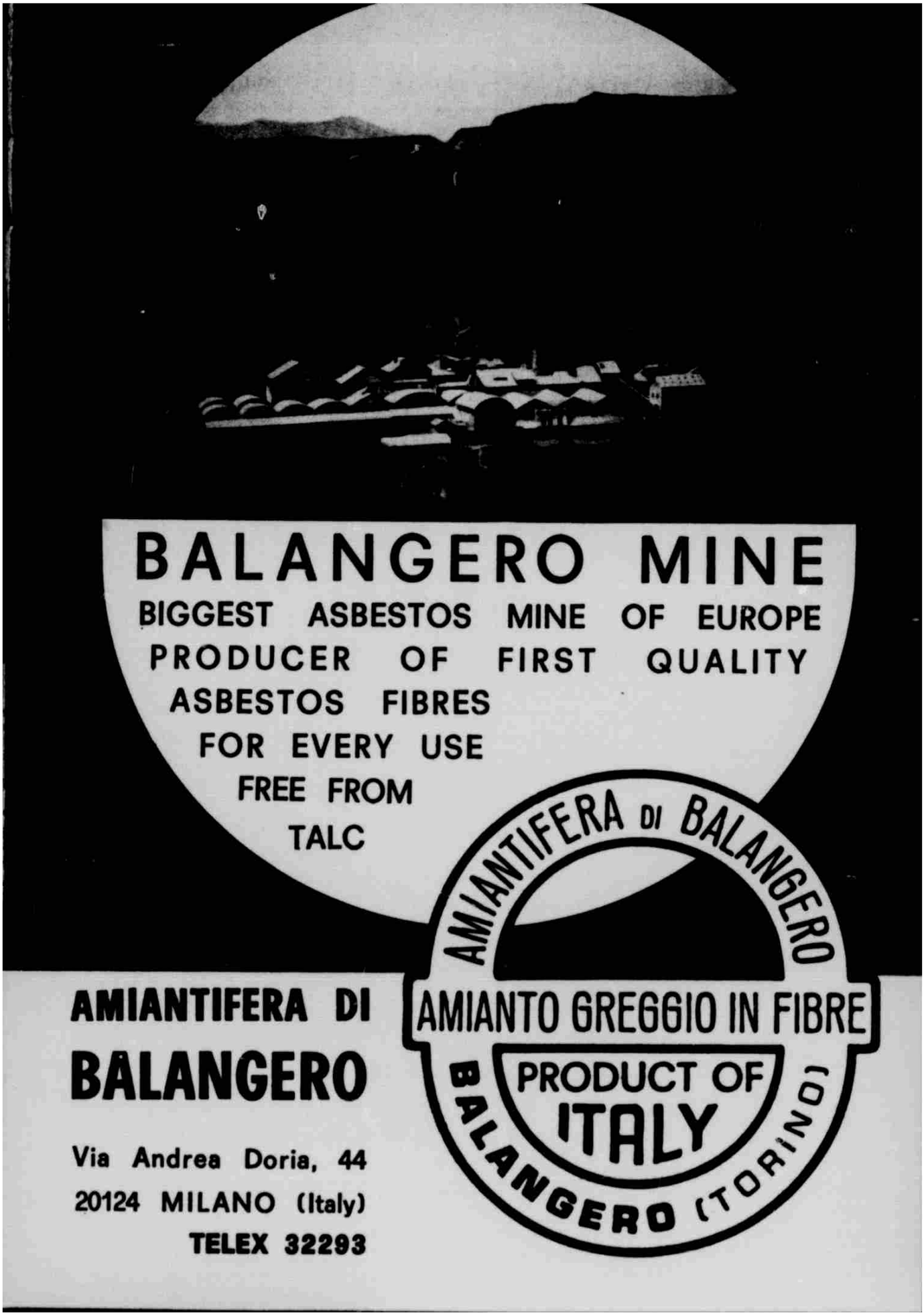
Gordon G. Hazell, Manager, Technical Sales & Field Engineering, Building Products Division, GAF Corporation, New York City, October 13.

Kenneth M. King, Jr., Vice President-Special Services, Bird & Son, Inc., East Walpole, Massachusetts, October 14.

Next Issue . . . .

The Simplicity D'CENTEGRATOR Pulverizer

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NOTES FROM 1970 ANNUAL REPORTS

ASBESTOS CORPORATION LTD.

Sales and profits for the year ended December 31, 1970, were the highest in the history of Asbestos Corporation Ltd. At $53,583,354, sales were up 6.4% over the 1969 figure and net profit after taxes reached $6,414,915 or $2.26 per common share, an increase of 4.5%. Earnings for the year were adversely affected by United States exchange losses amounting to $554,320 caused by the unpegging of the Canadian dollar on June 1, 1970. Generally speaking, the overall market for asbestos was strong and inventories at the end of the year were at the lowest level in 15 years.

During the year the decision was made to bring the company's Asbestos Hill Project into production. A contract was let and construction of the Ungava phase of the project commenced in May 1970. Production is scheduled to begin early in the summer of 1972 at the rate of 1,000,000 tons of ore per operating year of seven months. The ore so mined is expected to produce approximately 300,000 tons of ungraded fiber per annum. Concurrently with the development of the Ungava facilities, a finishing mill and warehousing have been designed and will be constructed at Nordenham, West Germany. To facilitate the construction of the plant, which should be in operation by August 1972, the company formed a wholly-owned special subsidiary company in Germany—Asbestos Corporation GmbH.

Operations at all mines were at or near capacity throughout 1970 and the value of asbestos production increased by 12.5% over the previous year. During 1970, 29,869,000 tons of rock were mined and 10,909,000 tons of ore were processed. The average daily tonnage of asbestos produced reached 1,033 tons.

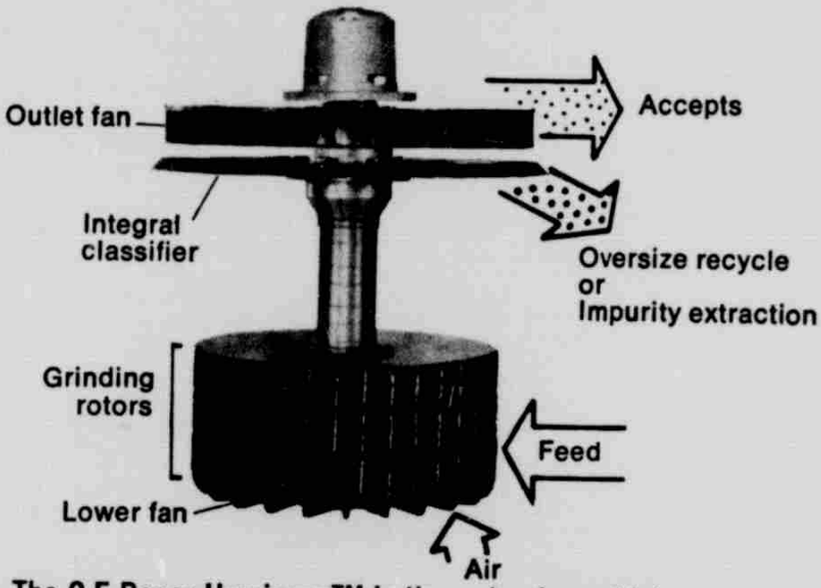
To increase the rated mill capacity by 50%,the King-Beaver expansion program was begun in 1970. The sinking of the new shaft at the Penhale orebody was completed at a depth of 1,270 feet in September 1970 and work commenced drifting into the orebody at the 240 foot elevation. Additions were made to ore reserves at the Normandie Mine and other properties in 1970 and proven reserves at year end totaled 143,420,000 tons. In addition there are an estimated 55,000,000 tons of ore classified as probable and a further 61,400,000 tons of possible ore in the Thetford area. The full extent of the reserves at Asbestos Hill has yet to be determined. Considerable geological work was carried out to develop future mining plans at the company's main operating properties in the Thetford-Black Lake area.

TURNER & NEWALL LTD.

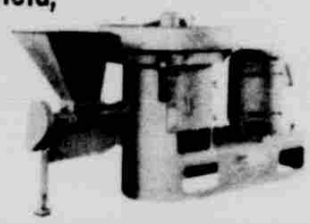
Consolidated profit, after taxation, for Turner & Newall Ltd. for the year ended September 30, 1970, amounted to £7,060,000, compared with £7,362,000 in the previous year. Direct export sales from the United Kingdom, including sales to overseas subsidiaries, increased

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from £20,537,000 to £22,405,000. Group capital expenditure was £7,585,000. The greatest expense was incurred in expanding and modernizing manufacturing capacities in the U.K. In addition £814,-000 was expended on the new shaft at Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada.

T&N mines asbestos fiber in Canada, Swaziland and the Republic of South Africa and manufactures a wide range of building, textile and insulation products, friction materials and gaskets. A long-term program of vertical integration has been accompanied by active growth into fields associated with the Group's principal markets. Non-asbestos products now constitute approximately 25% of the world-wide turnover and some 40% of the turnover in home markets.

During the year T&N acquired Flexitallic Gasket Company and Flexitallic Company, manufacturers of specialized industrial gaskets headquartered in Camden, New Jersey, and C. L. Whitaker & Company, insulation contractors and cold storage engineers located at Grimsby, England. Other action taken to improve the profitability of the Group's building and construction materials interests included the amalgamation, effective October 1, 1970, of J. W. Roberts Ltd. with Turners Asbestos Cement Company Ltd., under the name of TAC Construction Materials Ltd.

TAC Construction Materials Ltd.—During the year it was decided to close the factory at Dalmuir and to concentrate production at the company's other factories.

Turner Brothers Asbestos Company Ltd. sold its rubber conveyor belting interests to BTR Industries and acquired from that company its interests in transmission belting. An agreement was concluded with the Continental Oil Company under which "Duraform" reinforced PVC sheet is to be manufactured and sold in the U.S.

Ferodo GmbH, a marketing subsidiary, was established to develop sales in Germany of all Ferodo products manufactured in the U.K., Italy and France.

British Industrial Plastics Ltd.—Further expansion of manufacturing capacity has commenced at BIP's main works at Streetly. BIPEL Maschinen, Germany, now has new premises at Ratingen, near Dusseldorf. Further expansion and new activities are planned for Materiales Moldeables, Mexico, ownership of which is shared with The Borden Company of America. BIP Ltd. concluded a license agreement for the manufacture of its molding materials in Yugoslavia.

Atlas Asbestos Company—There has been a decline in the demand for asbestos-cement building materials and the demand for pipes has failed to increase as expected. After the close of the financial year a small asbestos-cement sheeting plant was acquired at Mission, near Vancouver, Brtish Columbia, Canada.

TAP Building Products Ltd.—Sales and profits were a little better than in the preceding year. An asbestos-cement pipe machine (the first in Zambia) will be installed at the factory at Chilanga, near Lusaka, and a new company, TAP Pipes Ltd., has been formed.

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ASBESTOS STOCK QUOTATIONS

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Advocate Mines	*$2.05	Gulf & Western	26
Allied Mining	*$3.30	G&W (pfd 1.75)	87½
Asarco	24	G&W (pfd 3.50)	111
Armstrong Cork	35½	G&W (pfd 3.87)	57
Armst Cork (pfd 3.75)	53	G&W (pfd 5.75)	66
Asbestos Corporation	*$34.00	Illinois Central	36⅜
Bendix	39¼	Ill. Central (pfd 3.50)	60
Bendix (pfd 3)	60	Johns-Manville	40⅝
Carlisle	15⅞	Maremont	16⅛
Cassiar Asbestos	*$22.25	National Gypsum	22
Cerro Corporation	14½	Natl Gypsum (pfd 4.50)	66
Certain-teed	31⅝	Pacific Asbestos Ltd.	*$1.55
C-teed (pfd .90)	32⅜	Panacon	3¾
Conwest	*$9.50	Porter (pfd 5.50)	69
Flintkote	27½	Raybestos-Manhattan	29
F-kote (pfd-A 4.50)	78½	Royal Industries	10¼
F-kote (pfd-B 2.25)	38¼	Unarco	14
GAF Corporation	17⅛	Union Carbide	46⅞
GAF (pfd 1.20)	23⅝	Uniroyal	21¼
Garlock	17¾	Uniroyal (pfd 8)	103¼
Grace	28¼	United Asbestos	5¼

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

TRADE OPPORTUNITIES

Austria—importer-distributor interested in the purchase of minerals and earths, ground or otherwise treated; contact Richard Haeusler, Aussenhandel, Eggenberger Allee 1-3, P. O. Box 69, A-8011 Graz.

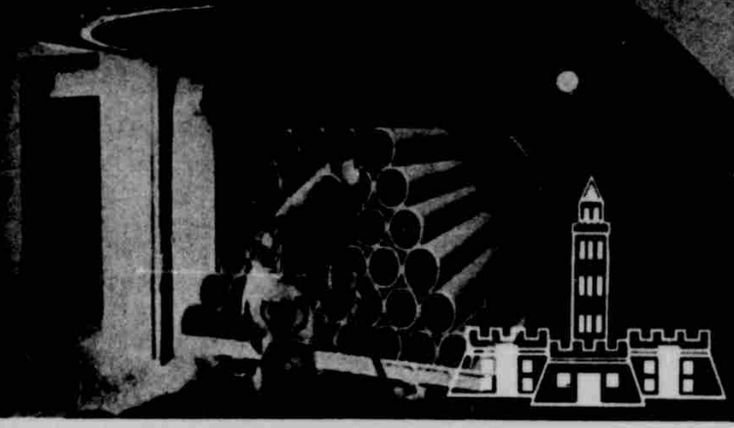
Brazil—distributor-agent-retailer seeking the direct purchase of (or agency for) U.S. manufactured mechanical measuring instruments, dimensional, all usual industrial types; contact Importecnica S.A., Comercial e Importadora, Rua Florencio de Abreu 354, 1° andar, Sala 103, Caixa Postal 30601, Sao Paulo, SP.

Germany—importer-distributor interested in the direct purchase of asbestos packings and all types of gaskets; contact Mr. R. Mannel, Julius Roller & Co., Markusstrasse 7, 2 Hamburg 36.

Netherlands—importer-distributor-exporter interested in the direct purchase (or agency or distributor for Europe) of roofing felt on rolls and asbestos-cement corrugated sheeting; write the Manager, H. G. van Hoogdalem, Handelsonderneming J. Snoei N.V., 446 Kralingseweg, P. O. Box 4146, Rotterdam-17.

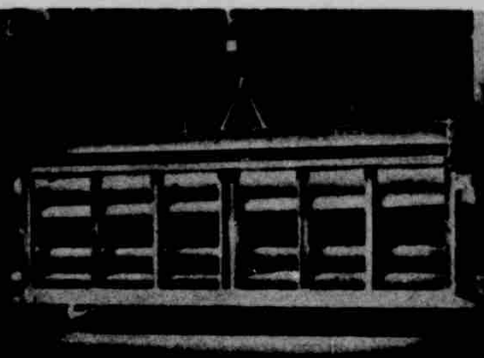
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MEN ON THE MOVE

AMERICAN SMELTING & REFINING CO.

Howard S. Turner, Chairman and Chief Executive Officer of Turner Construction Company, was elected a Director of Asarco. He is also a Director of GAF Corporation, Ingersoll-Rand Company and Teachers Insurance and Annuity Association of America.

John J. Collins was elected Director of Exploration, succeeding C. P. Pollock who retired. Mr. Collins joined Asarco in 1951 and served in several foreign assignments before becoming Chief Geologist in 1967 and Assistant to Vice President in 1970.

CANADIAN JOHNS-MANVILLE CO. LTD.

J. R. M. Hutcheson was elected President of Canadian Johns-Manville, replacing A. G. W. Sinclair. Mr. Hutcheson continues as General Manager of the Asbestos Fibre Division in charge of the mining, exploration and sale of asbestos fiber. He joined C.J-M in 1949 as a Mining Engineer in the Underground Department and for the past six years has represented the Quebec Asbestos Mining Association and the United States of America Standards Institute on all matters concerning asbestos fiber to the Pan-American Standards Commission.

G. P. Loubert, General Manager of the Canadian Products Division, was elected a Vice President of C.J-M. He joined the company in 1952 as a Pipe Engineer.

EVERITE LTD.

M. E. Mealin was appointed Manager, Western Cape Region, succeeding P. Rohrer who retired. Mr. Mealin joined the firm in 1969 and was formerly Financial Controller at Everite's head office in Braamfontein, South Africa.

NICOLET INDUSTRIES, INC.

John K. Whittaker was appointed Executive Vice President, as part of a management reorganization at Nicolet. He joined the company in 1956 and since 1967 has been Vice President-Marketing. In 1970 he assumed the additional responsibility for manufacturing as Vice President, Asbestos Products Division.

C. Fred Workman, formerly Executive Vice President and General Manager of the subsidiary in California, is now Vice President-Marketing. He joined the Industrial Division of Keasbey & Mattison Company in 1955 and went with the parent company when the Division was purchased by Nicolet in 1962.

John J. Finnegan, formerly Operations Manager of the Plants at Ambler and Norristown, Pennsylvania, became Vice President-Manufacturing. He will direct all the manufacturing operations of Nicolet.

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BOOKS, ARTICLES & MAPS

Fire Retardant Building Products & Coatings 1970, by Dr. M. W. Ranney— a survey of the need for chemicals that are relatively inexpensive due to the economics of the building trade and for coatings able to maintain paintability and hygroscopicity. [$35.00 per copy; order through ASBESTOS or direct from Noyes Data Corporation, Park Ridge, New Jersey 07656]

Handbook of Engineering Seismology—a series of copyrighted technical memoranda that when completed will be compiled in the form of a Handbook to assist users in the application of the various engineering and geophysical instruments and systems now available. [Bison Instruments, Inc., Minneapolis, Minnesota 55429]

Basic Characteristics of Mineral Ore Resources in NR China, by Dr. D. Milovanovic—among other minerals and metals, the author supplies data on asbestos reserves and production. [Rudarski Glasnic (Bulletin of Mines), January 1971; article written in Yugoslav, with English summary]

Historic Canadian Map Reproductions—replicas of five maps that were significant in the history of Canada, i.e., America Septentrionalis, Le Canada ou Nouvelle France, Amerique Septentrionale, An Accurate Map of Canada, and British North America; produced by the Surveys and Mapping Branch of the Department of Energy, Mines & Resources, Ottawa. [$1.00 each; $4.00 for the set of five maps; available from Map Distribution Office, 615 Booth Street, Ottawa, Ontario, Canada]

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 712 505—Heat Transfer Through Fabrics, Naval Air Development Center, Warminster, Pennsylvania. [$3.00]

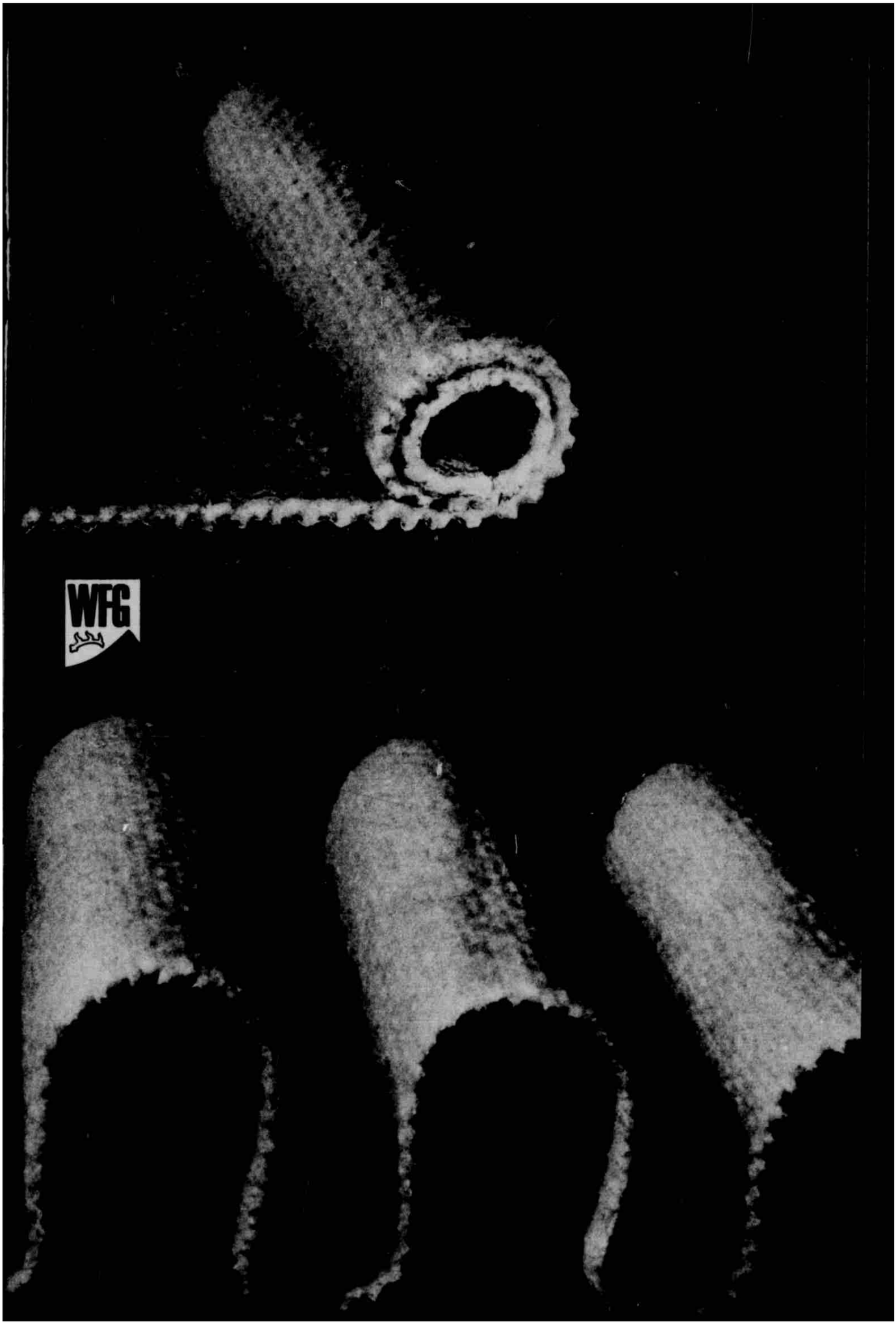
AD 713 201—Field Fabrication of Continuous Lightweight Reinforced Plastic Pipe, Phase I: Literature Search, Plastics Technical Evaluation Center, Picatinny Arsenal, Dover, New Jersey. [$3.00]

AD 713 274—Fibre-Filled Thermoplastics, Part I. Asbestos, Explosives Research and Development Establishment, Waltham Abbey, Essex, England. [$3.00]

N70 26280—Design Concepts for Fiber-Metal Matrix Composites for Advanced Gas Turbine Blades, NASA, Lewis Research Center. [$3.00]

N70 26463—Characterization and Design Mechanics for Fiber-Reinforced Metals, NASA, Lewis Research Center. [$3.00]

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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.

Canadian 871,182—In the manufacture of disc brake linings, a mixture of resin, acrylonitrile rubber and fillers is pre-roasted and the pre-roasted material then blended with asbestos, a phenolic resin, brass shavings and cashew nut shells; W. D. Jost; assigned to Semperit Osterreichisch-Amerikanische A.G., May 18, 1971; 7 pages.

Canadian 871,676—A core for a fire door consists of a sheet cast from a mixture of expanded perlite, ball clay, Amosite asbestos, a cellulosic binder, tapioca starch and alum or boric acid; J. R. Roberts; assigned to Canadian Gypsum Company Ltd., May 25, 1971; 10 pages.

U.S. 3,580,537—In the extraction of asbestos short fibers from tailing from an asbestos ore mill, the waste is dried by whirling it through a stream of hot gas, and the dried material comminuted in an impact breaker to separate substantially all of the remaining fibers from the gangue and the fibers from each other; E. Andreas; assigned to Hazemag Hartzkleinerungs-und Zementmaschinenbau GmbH, May 25, 1971; 4 pages.

U.S. 3,582,460—To improve its freeness and filterability, graded Chrysotile asbestos is treated with an aqueous silica sol to deposit evenly on the fibers 0.6-1.4% by weight of colloidal silica, and the coated fibers are dried; S. G. Lipsett; assigned to Asbestos Corporation Ltd., June 1, 1971; 7 pages.

Mineral Exploration, Mining & Processing Patents 1970 is a 290-page, subject-classified, fully-indexed volume of abstracts of 1970 patent literature that will be valuable as an immediate and a permanent reference. The abstracts cover most if not all of the significant patents issued during 1970 in the U.S., Canada and Britain on exploration for and mining of metallic and non-metallic minerals (excluding solid fuels and petroleum), beneficiation and concentration, extraction, and refining of metals extracted from ores. It also includes selected patents issued in Germany, France, Japan and the U.S.S.R. [$25.00 per copy, including postage if sent via regular book-rate mail; add $3.00 if book is to be sent via air-mail; place orders either through ASBESTOS or direct with the author, Oliver S. North, 812 South Ode Street, Arlington, Virginia 22204—contact Mr. North for individual editions for the years 1964 through 1969]

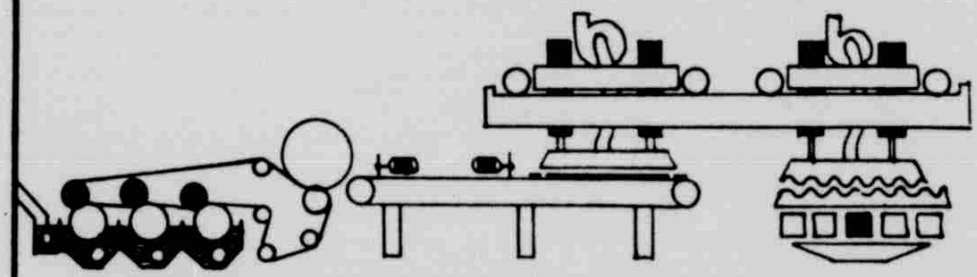
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CALENDAR OF EVENTS

Physics & Chemistry of Asbestos Minerals—2nd International Conference, Institute of Earth Sciences, Louvain University, Belgium; *September 6-9.*

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

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.*

ASTM Committee D-30 on High Modulus Fibers & Their Composites—ASTM Headquarters, Philadelphia, Pennsylvania; *September 13-16.*

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 W1N 4BR, England, before *September 15.*

Grinding and Cutting with Diamond Wheels—Diamond Wheel Manufacturers Institute Technical Symposium, O'Hare Inn, Chicago, Illinois; *September 16.*

Kunststoffe '71 (Plastics Trade Fair)—opportunity for U.S. firms to display the latest development 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.*

20th Geomechanics Colloquy—sponsored by the Austrian Society for Geomechanics, Salzburg Congress Hall, Salzburg, Austria; *September 30-October 1.*

Air & Water Pollution Controls Exhibition—sponsored by Government of Singapore as part of month-long national health campaign; *October.*

ASTM Committee C-16 on Thermal Insulation—Hotel Hershey, Hershey, Pennsylvania; *October 5-8.*

Asbestos Textile Institute—General Meeting, Savannah Inn and Country Club, Savannah, Georgia; *October 6-8, 1971.*

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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?

(August 1921 ASBESTOS)

A feature article, titled "The Discovery and Early Uses of Asbestos," by M. C. Weaks, traced the history of asbestos from the earliest lengendary stages up to the 19th century, when first attempts were made to commercialize the material and its products.

The Canadian Johns-Manville Co. Ltd. reported good progress in the erection of its new manufacturing plant at Asbestos, Quebec. This was the first large and complete plant for fabrication of asbestos products to be erected in Canada.

Samuel Gompers was re-elected as President of the American Federation of Labor, winning by a large majority over John L. Lewis of the United Mine Workers Union.

Note was made of the laying of a roadway in Toronto composed of the usual bituminous material with the addition of asbestos fiber. A similar paving had been previously laid on a heavily traveled street in New Bedford, Massachusetts, and was said to be performing satisfactorily.

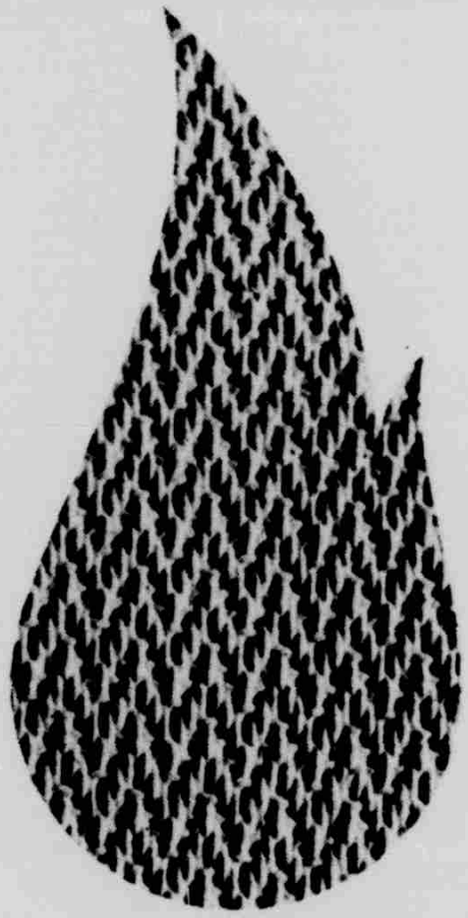
Charles A. Caruso, for twenty-one years Superintendent of the United States Asbestos Company plant at Manheim, Pennsylvania, became associated with Pennsylvania Asbestos Company, North Wales, as Vice President and General Manager.

Have you ordered your copy of the new edition of "The Asbestos Factbook"?

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