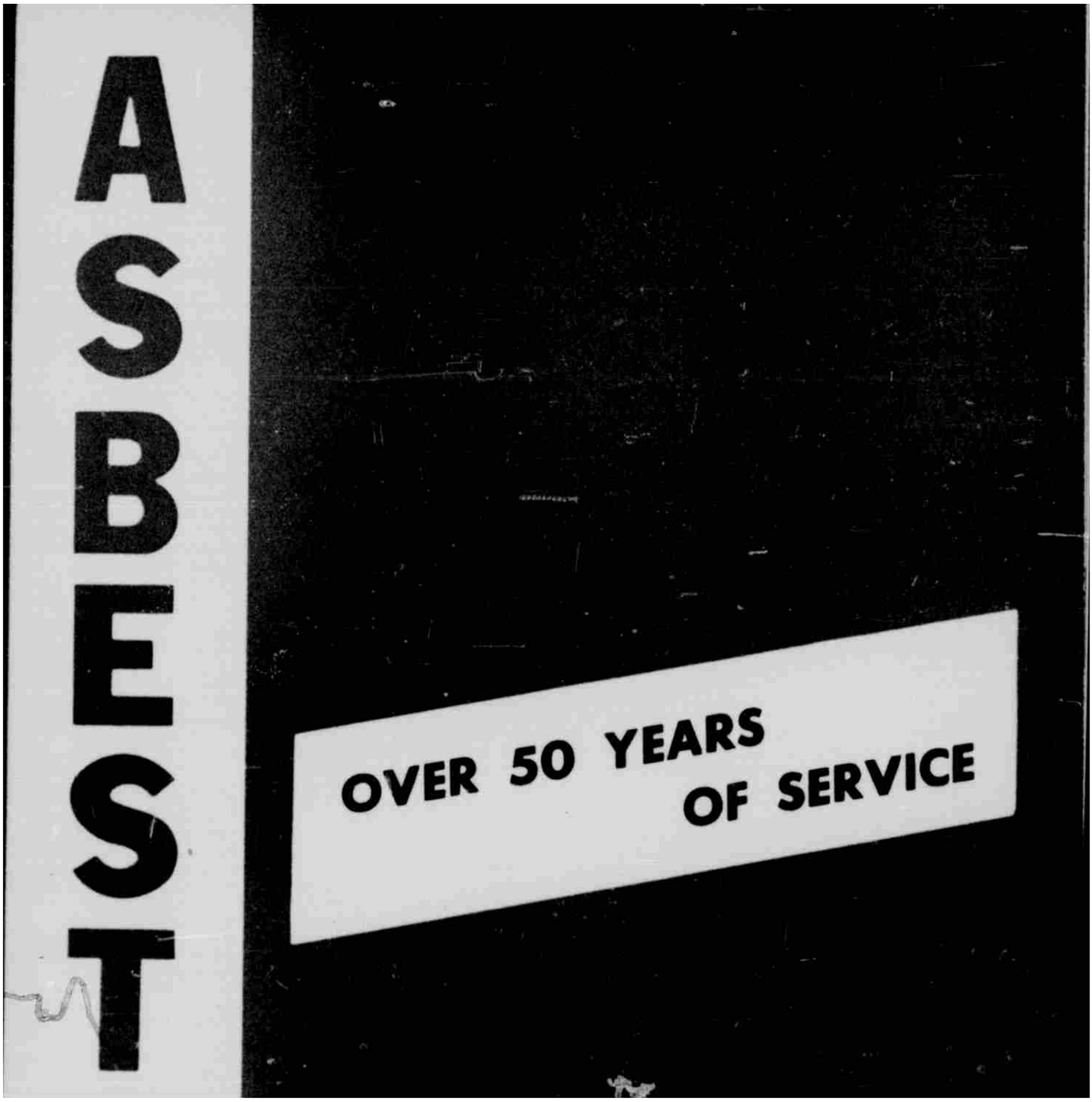

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

(Mr. Bettes retired in 1966 as Manager of the Asbestos Textile Division of Raybestos-Manhattan, Inc. He had been with the company since 1939 and among his many achievements had assisted in preparing R/M's first catalog on asbestos textiles. He is a past president of the Asbestos Textile Institute. Mr. Bettes is regarded as an authority on the asbestos textile industry.

We gratefully acknowledge the time and effort Mr. Bettes has put into this series and know that those involved in the asbestos textile industry appreciate his endeavors and will find the "History" a handy source for reference in years to come.)

Many asbestos textile manufacturers in the United States have their histories on file and several of these individual company histories have been published in booklet form. However, no one has, until this time, attempted to assemble these records, along with other available information, into a single documentary which could rightfully be called a "History of the Asbestos Textile Industry in the United States." It should be recognized that this series is intended to present a history of the entire asbestos textile industry from its very beginning. It is *not* intended to include the complete history of any one asbestos products manufacturer except insofar as that company and its personnel contributed substantially to the start-up and growth of the asbestos textile industry. In the interest of brevity the history will be confined to the founding and early activities of each company, particularly to those developments beyond the memory of all but a very few currently active members of the industry, since little is to be gained by recording happenings well known to most members of the present-day industry. It is hoped this compilation will give pleasure to the older members of the industry by calling to mind important events of the past, and those men who made industry history in bygone years. Younger men may gain a better perspective of the industry by enhancing their knowledge of its pioneer days.

Before beginning the series, it should prove of interest

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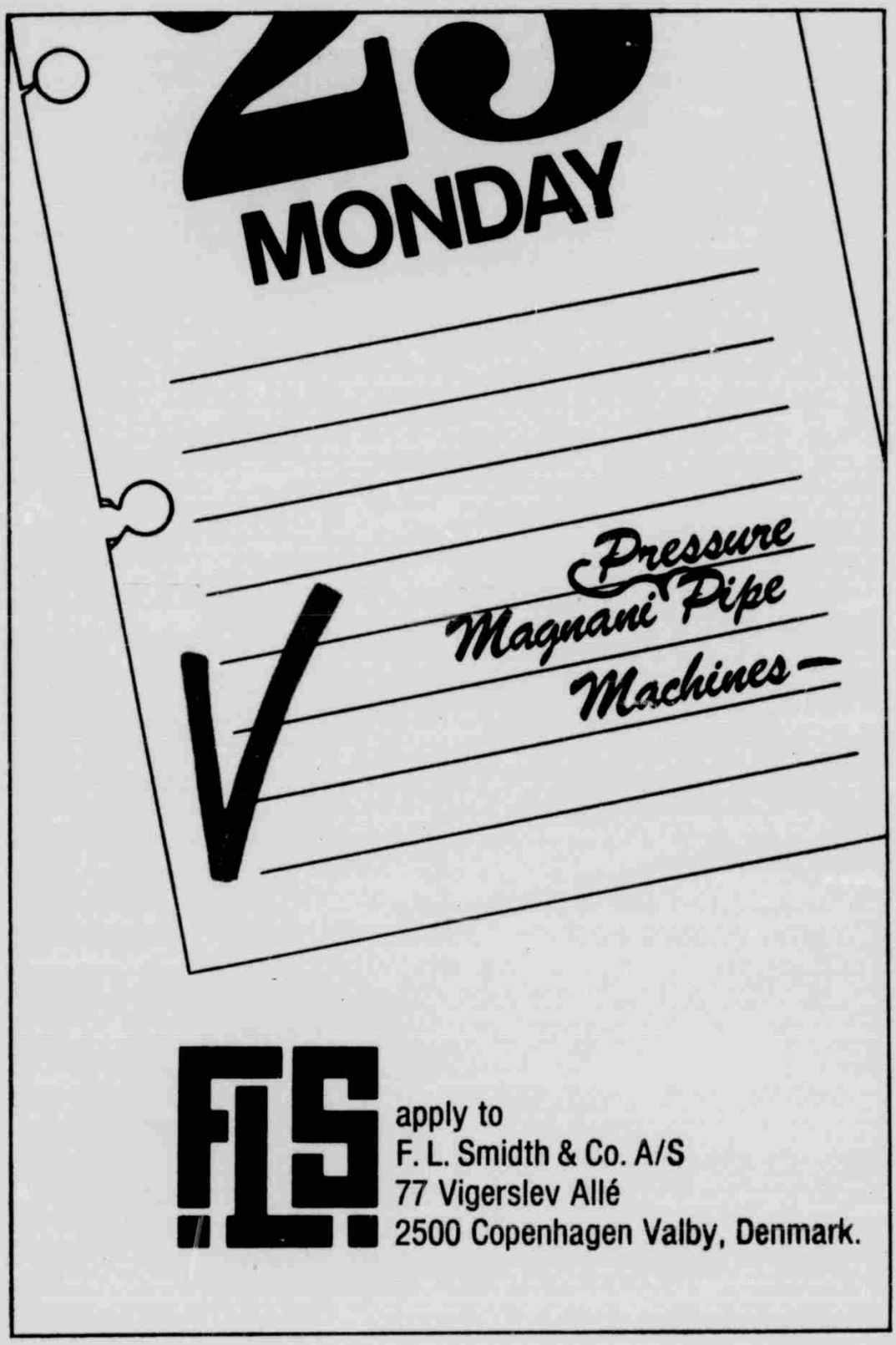
to review the developments which created the need for asbestos textiles in this country and in other parts of the world. It has been said, and rightly so, "The steam engine was the father of the asbestos textile industry." This being the case, then the automobile must surely have been the maternal parent. With the invention of, and subsequent improvements in, the steam engine, a need was created for improved packing materials. Thus was born the first commercial use for an asbestos textile—specifically, asbestos packing. The advent of the "horseless carriage" led to a requirement for heat-resistant friction materials and here again, brake linings and clutch facings made from woven asbestos provided the answer to the need. These two machines unquestionably were the major underlying factors in the development of the asbestos textile industry in this country and in Europe. It is important to recognize the role played by asbestos textile products in the continuing development of the steam engine, steam-powered vehicles of all types and the present gasoline-powered automobile.

It might be in order, at this point, to review the history of the steam engine. Prior to 1770 the Newcomen engine, a clumsy and inefficient machine, was utilized to pump water from coal mines in England. This engine used steam to create a vacuum in a cylinder. Atmospheric pressure caused the piston to reciprocate at about 15 strokes a minute. James Watt, a self-educated mechanical genius from Glasgow, Scotland, recognized that a far more efficient engine would use steam to activate the piston directly. This was the basis for his patent issued in England in 1769 and thus Mr. Watt is credited with the invention of the steam engine.

The original Watt engine operated at a mere seven pounds of steam pressure. This is equivalent to a temperature of only 230°F, which is safely below the critical temperature of cotton, i.e. 250°F.

Early models of the Watt engine used lubricated cotton packing for the piston rod and for the valve stems. As the refinement of the Watt engine progressed, tolerances were reduced. Operating temperatures and pressures were increased. Cotton packings proved inadequate. Engineers in several countries turned to the bast fibers—hemp, flax and jute—in an effort to provide packings with improved heat resistance.

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By the time operating pressures reached 150 pounds per square inch, temperatures were up to 365°F, well above the critical point for any cellulosic fiber. It was at this point engineers in several countries turned to asbestos as the logical base for packings which could withstand the higher service temperatures.

The earliest asbestos steam packings were apparently nothing more than a carded asbestos sliver with a braided cotton jacket, lubricated by impregnation with oil or oil and graphite. Improved versions had braided asbestos or asbestos cloth jackets. In 1884, H. W. Johns Company, Brooklyn, New York, issued a catalog which offered several different styles of asbestos packings and gaskets.

Although the U.S. cotton and woolen industries were undoubtedly imported from Europe (the great cotton mills at Fall River, Massachusetts, were carbon copies of their counterparts in Manchester, England), the asbestos textile industry in the United States apparently did not stem directly from any foreign country. The techniques employed to manufacture asbestos textiles in this country were adapted from standard practices already well established in the cotton and woolen industries.

As previously mentioned, this article is the first of a series on the many manufacturers that participated in the development of the "Asbestos Textile Industry in the United States." As a start it should be useful to list the numerous locations at which asbestos textiles have been produced in the United States and by what companies. The writer will follow long-established industry practice and define a basic asbestos textile manufacturer as one who cards asbestos roving and spins asbestos yarn. The following list may not be complete but it does include all American companies and all plant locations of which the writer could find record. Obviously, some plants will have dual listings due to changes in ownership over the years. The following companies and plant locations will be noted in this series:

Allbestos Corporation, Philadelphia, Pennsylvania;
American Asbestos Company, Norristown, Pennsylvania;
American Asbestos Textile Corporation, Norristown and Milford Square, Pennsylvania; Meredith, New Hampshire;
Asbestos Fibre Spinning Company, North Wales, Pennsylvania;
Asbestos Spinning and Weaving Company, Waterford, New York;

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Asbestos Textile Company, Reynoldsville, Pennsylvania;
North Brookfield, Massachusetts;
Asten-Hill Company, Philadelphia, Pennsylvania;

J. Franklin Burke and Company, Inc., Northfield, Vermont;

Carolina Asbestos Company, Davidson and Marshville, North Carolina;

Ferodo and Asbestos, Inc., New Brunswick, New Jersey;
Fiber and Metal Products Company, Downey, California;

Garlock Packing Company and Garlock, Inc., Palmyra, New York;
Gatke Corporation, North Brookfield, Massachusetts;
General Asbestos and Rubber Company, Charleston and North Charleston, South Carolina;
Greene, Tweed and Company, North Wales, Pennsylvania;

Johns-Manville Corporation (including the former H. W. Johns Company), New York City and Brooklyn, New York; Manville, New Jersey; Marshville, North Carolina; Waukegan, Illinois;

Keasbey & Mattison Company, Ambler, Pennsylvania; Meredith, New Hampshire; New Brunswick, New Jersey;
The Kubar Manufacturing Company, Davidson, North Carolina;

Mikesell Brothers Company, Wabash, Indiana;
Multibestos Company, Walpole, Massachusetts;

Philadelphia Asbestos Company, Norristown, Pennsylvania;
H. K. Porter Company, Charlotte and Davidson, North Carolina; Bennettsville, South Carolina; Middletown, Connecticut; St. Louis, Missouri;

The Raybestos Company, Bridgeport, Connecticut;
Raybestos-Manhattan, Inc., North Charleston, South Carolina; Manheim, Pennsylvania; Bridgeport, Connecticut; Marshville, North Carolina;
Russell Manufacturing Company, Middletown, Connecticut; Northfield, Vermont; Bennettsville, South Carolina;

Southern Asbestos Manufacturing Company, Charlotte, North Carolina;
Southern Asbestos Company, Charlotte and Davidson, North Carolina;
Standco Industries, Inc, Houston, Texas;
Stokes Asbestos Company, Trenton, New Jersey;

Tallman-McCluskey Fabrics Company, St. Louis, Missouri;
Thermoid Rubber Company, Charlotte and Davidson, North Carolina; Trenton, New Jersey;

Union Asbestos & Rubber Company, Cicero and Bloomington, Illinois; Davidson and Marshville, North Carolina; Paterson, New Jersey;
United States Asbestos Company, Manheim, Pennsylvania;

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Uniroyal, Inc. (formerly United States Rubber Company), Hogansville, Georgia; Passaic, New Jersey;

Waite-Wild Asbestos Company, Inc., Framingham, Massachusetts.

Due to their extreme importance to the industry, stories on the Asbestos Textile Institute and the American Society for Testing and Materials will also be included in this series.

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

TIAC MEETING—The 8th National Meeting of the Thermal Insulation Association of Canada will be held at the Algonquin Hotel, St. Andrews By-The-Sea, New Brunswick, September 8-12, 1970. Chairman of the Convention Committee is Mr. A. D. Guildford, President of Guildford's Limited, Dartmouth, Nova Scotia.

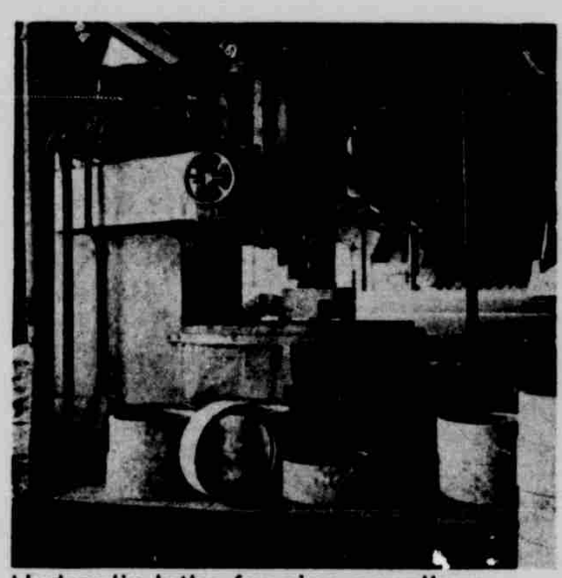
THE PRODUCERS' COUNCIL, INC., will hold its 49th Annual Meeting and Chapter Presidents' Conference at the Regency Hyatt House, Atlanta, Georgia, September 15-17. The theme of the meeting will be "Marketing to Meet a Decade of Change."

EASICA MEETING—The Eastern Atlantic States Insulation Contractors Association, Inc., will hold its Fall Meeting at the Holiday Inn, Hyannis, Massachuetts, September 17-18. For further details contact Mrs. J. Cecilia, Land Title Building, Philadelphia, Pennsylvania 19110 — telephone (215) LO 3-9088.

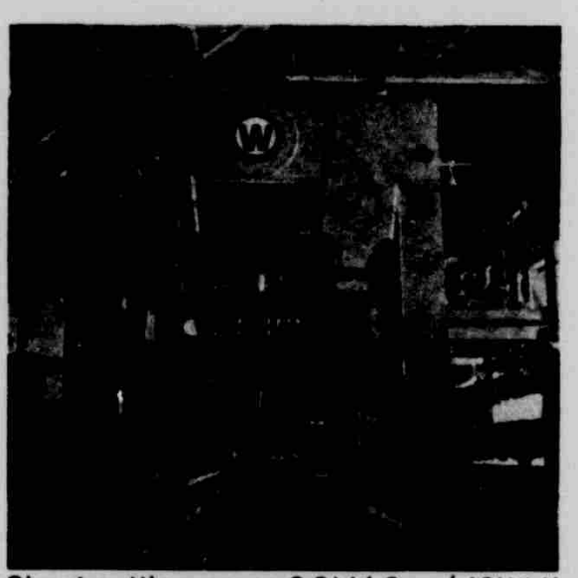
WESTERN INSULATION CONTRACTORS ASSOCIATION will hold its Annual Meeting at Highland Inn, Carmel, California, September 20-23.

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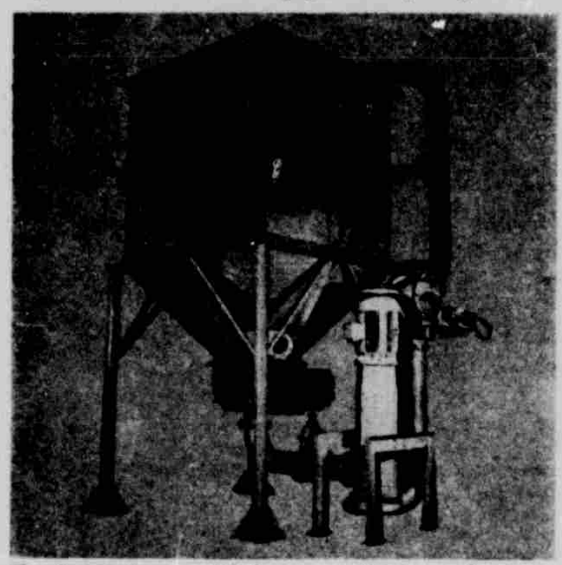
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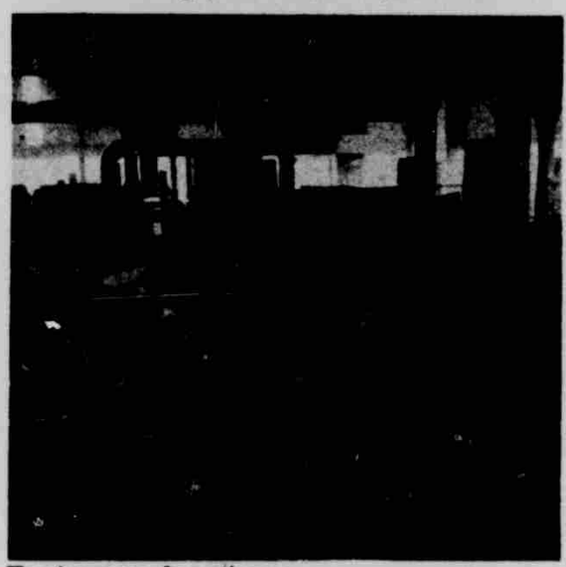
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NEWS FROM CERTAIN-TEED—The corporate offices of Certain-teed Products Corporation have been moved to a *new headquarters complex* at Valley Forge, Pennsylvania 19481. The company's telephone number is now (215) 687-5000.

Certain-teed Saint Gobain Insulation Corporation (CSG) has become a 65%-owned subsidiary of Certain-teed Products Corporation. Arrangements have been completed with the respective stockholders of CSG involving the exchange of all classes of outstanding stock for a new class of common stock. CSG was formed in 1967 as a jointly-owned company by Certain-teed and the French firm, Compagnie de Saint Gobain.

Certain-teed recently joined a group of investors who plan to acquire substantially all of Compagnie de Saint Gobain's interests in *American Saint Gobain Corporation.* The glassmaking company will be renamed "ASG Corporation." Certain-teed will have a minority interest in the group. Its present role is simply one of an investor and Certain-teed assumes no obligations of ASG nor has it any commitment to invest further in the securities of ASG. Plans are underway to distribute a line of ASG glass products to the building materials trade through Certain-teed's distribution outlets.

Certain-teed may resume open market purchase of its common stock for later use in making acquisitions if, in the management's opinion, the market price warrants such accumulation.

In Memoriam

WILLIAM J. WHEATLEY, JR., Vice President of Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, died Saturday, June 20, 1970, at age 47.

Mr. Wheatley was a Navy veteran of World War II and had been with Philadelphia Asbestos for 25 years.

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Asbestos down on the farm.

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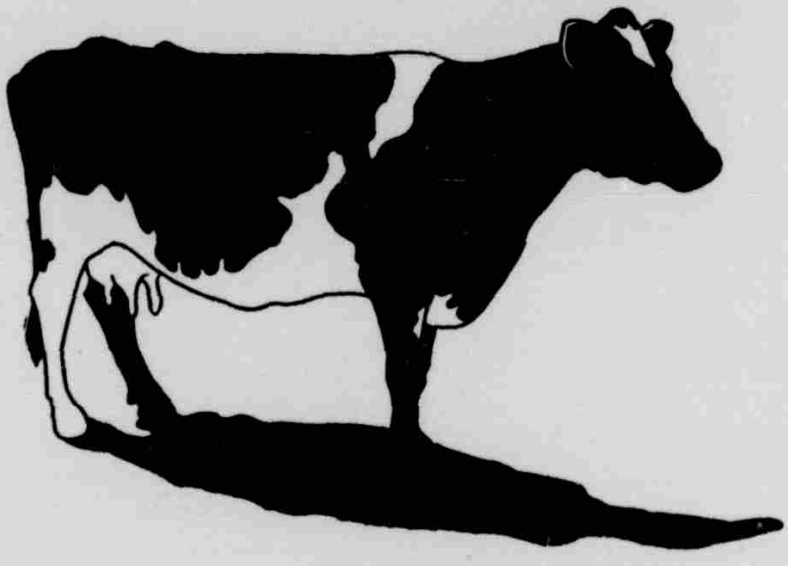
Asbestos also helps make building products immune to rot, rust and decay. So upkeep is low.

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Regulations for Spraying Asbestos

Through a statement issued by their trade association, the Sprayed Mineral Fiber Manufacturers Association, Westfield, New Jersey, manufacturers of fireproofing materials that contain asbestos fiber advise that New York City regulations for spraying the materials on large buildings are being followed fully and carefully to keep asbestos dust from spreading into the air at construction sites, thus preventing the possibility of a public health problem. Because of the "housekeeping" requirements of the regulations, the possibility of a health risk to workmen who apply the spray materials and to other workers at construction jobs is further reduced. SMFMA President Herbert L. Levine (President of Asbestospray Corporation, Newark, New Jersey) quoted Dr. Irving J. Selikoff, Director of the Environmental Sciences Laboratory at Mount Sinai School of Medicine, as follows:

"Adherence to New York City's regulations for the application of insulating materials that contain asbestos will prevent asbestos dust from entering the ambient air. These regulations will also keep all other insulating dusts from contaminating the city's air and will allow the insulating and fireproofing of buildings to proceed in safety. While there is no evidence that asbestos dust in the ambient air presents a community risk, every effort should be made to reduce general air pollution by preventing all construction-generated dusts and fibers from drifting into the air."

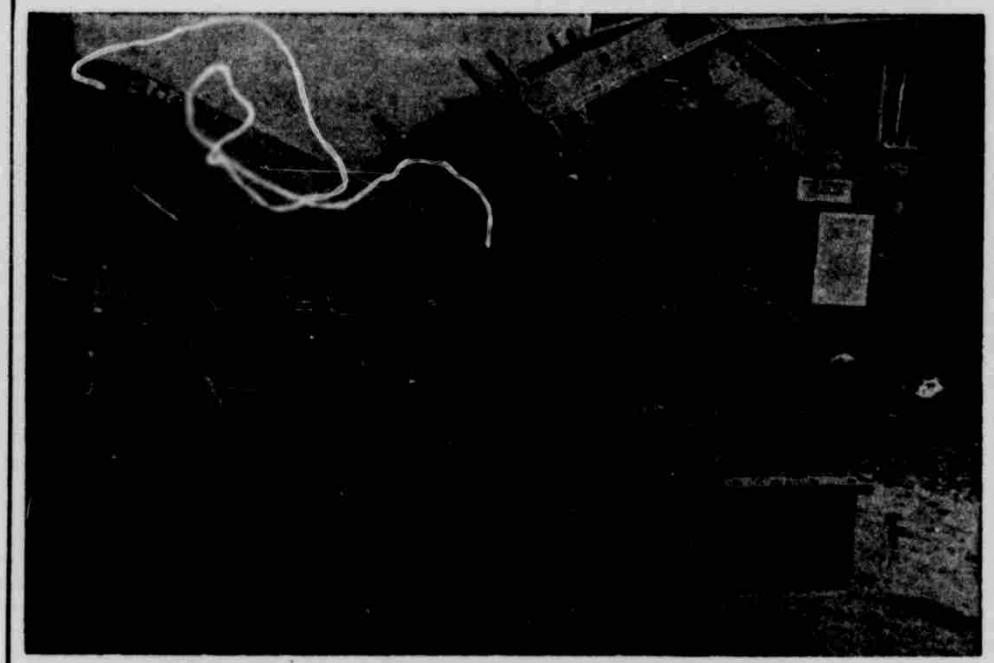
According to President Levine, more than two years ago SMFMA issued a code of work practices for members and their employees. The code is now being revised and the new version, expected to be issued shortly, will contain recommended practices designed to further improve the safe handling of asbestos-containing products intended for spraying.

Mr. Levine cited a recent article, "Asbestos and Health in 1969," by Dr. George W. Wright, Director of Medical Research at St. Luke's Hospital, Cleveland, Ohio. To quote from the article, "The risk to the general public posed by the mostly intermittent exposure to the low concentrations of asbestos likely to be present in the ambient air has been exaggerated beyond the limits imposed by the known facts."

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SERPENTIX CONVEYOR CORPORATION, Denver, Colorado, in an agreement with the Ensco-Vibro Companies, has established a sales organization covering nine eastern states.

Headquartered in Lyndhurst, New Jersey, Ensco-Vibro is an organization of technically educated and trained men having specialized experience in the application, sales and servicing of equipment for handling and processing of bulk solids.

Last year Serpentix acquired manufacturing and sales rights in the United States for a unique, continuous conveyor system. According to the company, the Serpentix system can perform functions that would normally require several conventional conveyors and can be automated to any degree desired, including continuous weighing, closed circuit television monitoring and remote selection of discharge points. The system was designed and engineered to transport material of the finest mesh as well as bulk and piece goods. In addition to running straight routes, it can operate horizontally, vertically or in spiral-curve directions. The conveyor was developed some years ago in West Germany and there are now more than 400 installations operating on five continents.

DMH/NATIONAL GYPSUM MERGER APPROVED—The merger between *National Gypsum Company*, Buffalo, New York, and *DMH Corporation*, St. Louis, Michigan, was approved at a special meeting of the stockholders of DMH held July 10, effective July 31, 1970. The merger agreement called for the exchange of each of the issued and outstanding shares of DMH common stock for .818 of a share of National Gypsum's common stock.

DMH will continue as a manufacturer of mobile homes and a developer and operator of mobile home subdivisions as one of National Gypsum's operating divisions. DMH President, Melvin J. Hutchinson, and all other present members of DMH management will operate the new division.

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Two T&N Subsidiaries Merge

Turner & Newall Limited announced a rationalization of its building and construction materials operations in the United Kingdom. Two of the Group's operating companies—*Turners Asbestos Cement Co. Ltd. & J. W. Roberts Ltd.*—will merge to form, on October 1, 1970, a new company called *TAC Construction Materials Limited.*

J. K. Shepherd, a Director of T&N, will be appointed Chairman and Joint Managing Director of TAC Construction Materials. He is presently Chairman and Managing Director of Turners Asbestos Cement. *A. N. Marshall,* currently the Chairman and Managing Director of Roberts, will be appointed Deputy Chairman and Joint Managing Director of TAC.

Both existing subsidiaries are prominent suppliers to the construction industries which form the Group's largest market.

HAZEMAG (CANADA) LIMITED, having reopened its own offices in Montreal-Westmount in September 1968, has moved to a new office building with warehouse and crusher test plant. The new location is near Dorval Airport, at 98 Columbus Street, Pointe Claire, P.Q., Canada.

HAZEMAG (Canada) is a wholly-owned subsidiary of HAZEMAG m.b.H., Muenster, West Germany, a manufacturer of impact crushers, crusher dryers and dryers.

PRAB ENGINEERING CORPORATION, Kalamazoo, Michigan, has announced the commercial production of a general-purpose "industrial robot" that has been under development and test for two years. Designed specifically to handle repetitive functions such as loading or unloading production equipment, the *Prab Robot* is built around standard electrical and hydraulic components to provide simple operation, low cost and easy maintenance. The unit is priced under $10,000 and is also available on a lease basis at 67¢ per hour.

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Automobile Sales

MAY 1970 motor vehicle factory sales from plants in the *United States* totaled 890,123 (passenger cars, 724,414; trucks and buses, 165,709). The total for May 1969 was 861,066.

Motor vehicle factory sales from plants in *Canada* totaled 133,031 for MAY 1970 compared to 135,214 in May 1969.

MAN IN CONTROL, a new 12-minute, 16mm color film that illustrates the correct operation of many types of machines and how to avoid hazards, has been released by the *American Gas Association,* New York City. The film points out that heavy equipment such as graders, backhoes, excavators and ditchers are just piles of expensive metal until someone takes control. The price per print is $150.00 to non-members of AGA and requests should refer to Catalog No. J-80290.

REINFORCED-PLASTICS consumption will reach 2.6 billion pounds by 1978 compared to an average of 689 million pounds from 1966-1968. These are the conclusions reached by the Research Group of *Predicasts, Inc.*, Cleveland, Ohio, in its recent study, "Reinforced Plastics." The 60-page report analyzes the reinforced-plastics industry. Historical (1957-1968) and forecasted (1973 and 1978) data are presented for 13 end-use markets and nine raw materials (including asbestos) used in the production of reinforced-plastic products. The price of the study is $200.00 per copy.

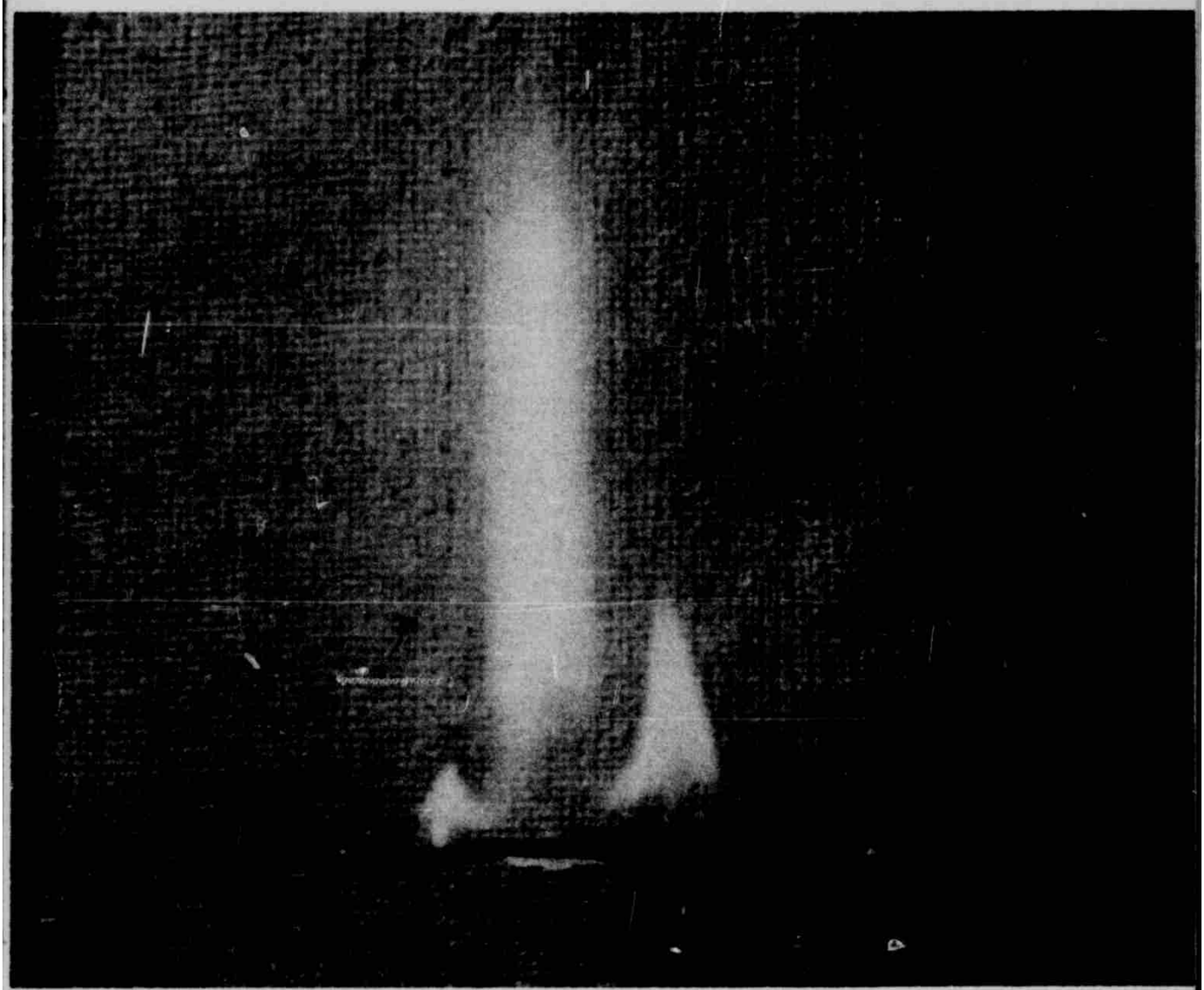
ACTION HOUSING FOR GREATER CINCINNATI received a $10,000 donation from the *Glen Alden Foundation*. The check was presented to John W. Humphrey, President of Action Housing, by C. E. Tennesson, Jr., President of *Panacon Corporation*. Glen Alden owns approximately 77% of the voting power of the securities of Panacon.

Action Housing is a non-profit corporation that promotes the development of low-cost housing in Greater Cincinnati. It was incorporated in September, 1968.

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UNIROYAL

Asbeston protects naturally or unnaturally.



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

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

Cape Asbestos Modernizes Fiber Packaging

As is generally known, one valuable property of both Amosite and Crocidolite asbestos fibers is their "resilient bulkiness." This same desirable property, however, has heretofore caused problems in packaging, shipping and warehousing such fibers.

A very effective solution to the problem is found in pressure packing fibers of both types. Cape Asbestos Co. Ltd. has adopted this packing method with great success and, while its entire output cannot presently be supplied in such packages due to limited capacity of facilities, additional packaging equipment is now being installed and it is Cape's intention to eventually supply all its fiber in pressure-packed bags.

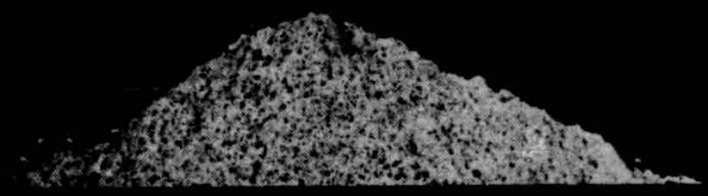
It is interesting to note that 75 cubic feet of fiber weighing 100 pounds can be packed into a 3-cubic-foot bag and a short ton of pressure-packed fiber will occupy only about 70 cubic feet of space. The standard package is an extremely strong, plastic-laminated hessian bag which is dust-free and waterproof. The bags will withstand rough handling and stack well. They can be readily palletized in loads of one ton per pallet and, in special cases, can be supplied overwrapped and steel-strapped. Pallets measure 43″ x 64″ and a one-ton load occupies a space of 77 cubic feet, including the pallet.

ASBESTOS IN THE USSR—The following articles concerning the asbestos industry in the USSR, written in the Russian language, appeared in various issues of "Construction Materials" in 1969: New Automatic Devices in the Production of Asbestos Cement, Automatic Regulation of Thickness of Asbestos-Cement Sheets, The Production of Asbestos-Cement Articles Using Asbestos from the Dzhetigarinsk Deposit, New Equipment for the Asbestos-Cement Industry, Indices of Asbestos-Cement Hydration, and The Pride of the Soviet Asbestos Industry.

The copies of "Construction Materials" were secured through the efforts of the National Public Library for Science and Technology, Moscow.

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



IN Carey 7RF FLOATS

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

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

Warehouse stock of 7RF asbestos floats at:

Atlanta ..... Thompson-Hayward Chem. Co.	Los Angeles ..... E. S. Browning Co.
Baltimore ..... A. B. Kohl Sales Co.	Memphis ..... Thompson-Hayward Chem. Co.
Birmingham ..... Thompson-Hayward Chem. Co.	Minneapolis ..... Thompson-Hayward Chem. Co.
Brooklyn ..... Smith Chem. & Color Co.	Mobile ..... Thompson-Hayward Chem. Co.
Buffalo ..... Commercial Chemicals, Inc.	Montgomery, Ala. . Thompson-Hayward Chem. Co.
Chicago ..... Chicago Firebrick Co.	Nashville ..... Thompson-Hayward Chem. Co.
Cleveland ..... Donald McKay Smith, Inc.	New Orleans ..... Thompson-Hayward Chem. Co.
Dallas ..... Thompson-Hayward Chem. Co.	Oklahoma City .... Thompson-Hayward Chem. Co.
Davenport, Iowa... Thompson-Hayward Chem. Co.	Omaha ..... Thompson-Hayward Chem. Co.
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Indianapolis ..... Thompson-Hayward Chem. Co.	Trenton, N. J. ..... H. M. Royal, Inc.
Kans. City, Mo. ... Thompson-Hayward Chem. Co.	Tulsa ..... Thompson-Hayward Chem. Co.
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	Winchester, Mass. ..... W. D. Egleston Co., Inc.

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ARMSTRONG ASBESTOS PAPER—The Industry Products Division of Armstrong Cork Company has developed *Accopac AD-8024,* a new, competitively-priced asbestos paper material that has excellent flexibility and die-cutting characteristics. Asbestos fibers, beater-saturated with a latex binder, are the keys to AD-8024's uniformity and fine fiber distribution. The beater saturation process eliminates the formation of the large clumps of asbestos fiber that make clean die-cutting and uniform sealing impossible. There are no loose fibers or fuzzy edges to litter production lines or cause problems in specialty equipment. The handleability and flexibility of Accopac AD-8024 will help reduce the number of parts broken during shipping, in-plant handling and installation.

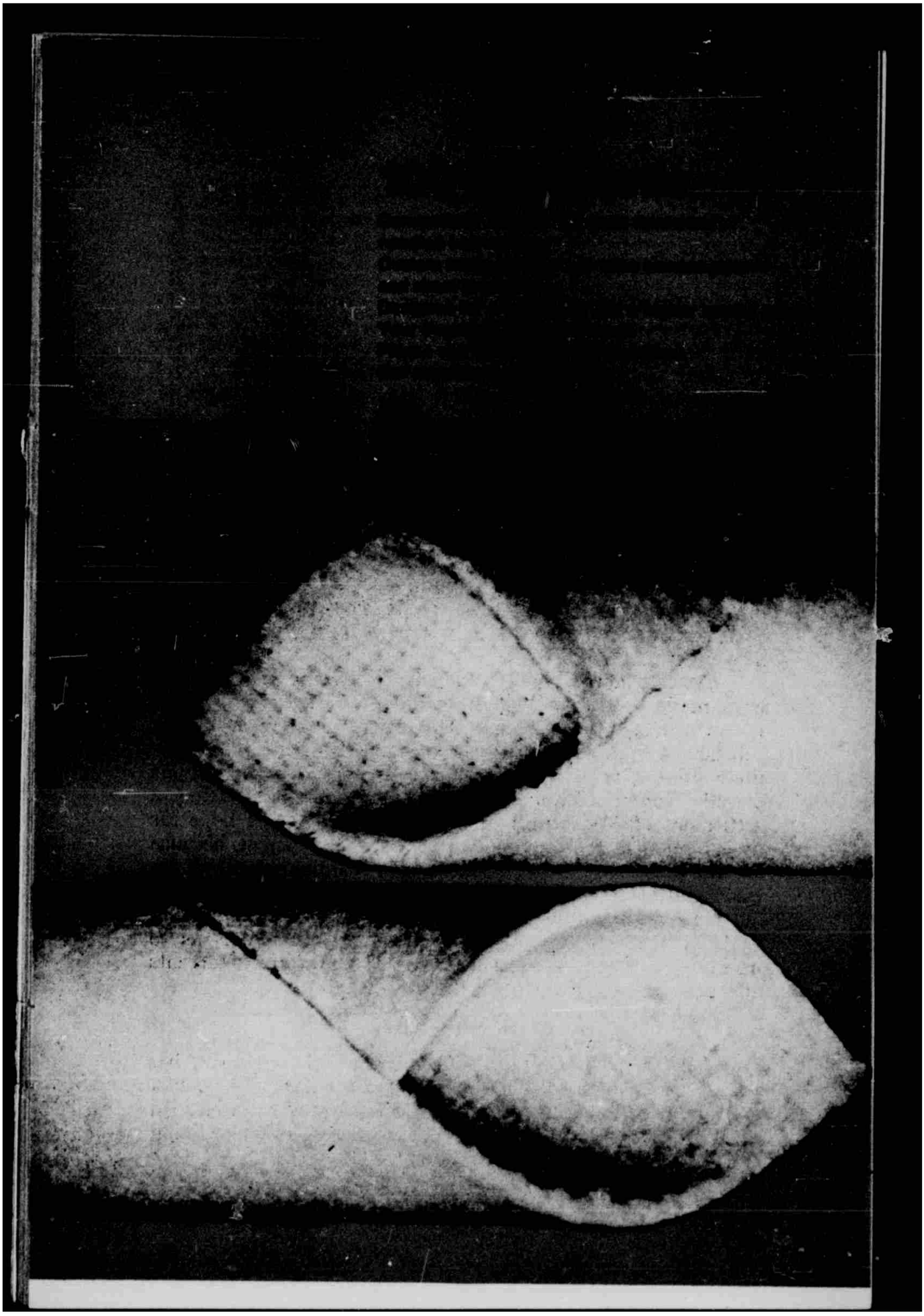
The new material has a wide range of applications including mechanical shields for electrical manufacturers, heat insulators for the appliance industry, header gaskets for engine manufacturers and heat shields for the lighting industry. It is available in 1/32″ gauge in 50, 250 and 900 yard rolls and in 1/16″ gauge in 25, 150 and 450 yard rolls. All rolls are 36″ wide. The product is white in color.

THE PACKAGING MACHINERY MANUFACTURERS INSTITUTE (PMMI) has published the *PMMI Packaging Machinery Directory.* The 270-page book devotes two pages to each member company of PMMI and it has extensive indices of machinery categories and trade names. A copy of the Directory is obtainable, for $1.00, from PMMI, 2000 K Street N.W., Washington, D.C. 20006.

T&N ORDINARY DIVIDEND—The Directors of Turner & Newall Limited declared an interim dividend for the year ending September 30, 1970, of 3¾%, amounting to a gross figure of £2,392,393. The dividend was payable August 7 to stockholders on the register July 3.

PORTER DIVIDEND—The Board of Directors of H. K. Porter Company, Inc., declared the regular quarterly dividend of $1.375 per share on the 5½% cumulative sinking fund preference stock, payable July 31 to stockholders of record July 10.

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MARKET CONDITIONS

General Business.

Uncertainties continue to plague businessmen, investors and economists as they try to predict the short and long term trend of the economy. Second quarter earnings reports for many corporations were somewhat better than had been expected and short term interest rates are showing signs of softening. Some economists are saying the corner has been turned and are looking for general improvement in economic conditions from here on. Others feel that further corrections in the form of higher unemployment, contracting, consumer spending and corporate reorganizations or realignments will occur before a firm base for a healthy recovery is established. Recent figures indicate a slackening in inflation but the changes are of such small magnitude that it would be premature to assume the cost-price push is nearing an end, particularly when the automakers are in the throes of negotiating new union contracts.

On the international scene, no significant progress has been made toward ending the conflict in Vietnam although recent statements by Defense Department spokesmen indicate substantial reductions have been made in U. S. expenditures in that area. The acceptance, by some of the nations directly concerned, of U. S. proposals for negotiating a settlement of Mideastern problems holds out some hope for a relaxation of tensions in that area but here again, because of the deep rifts between the major nations involved, an early and complete settlement is a bit too much to hope for.

The stock market staged a sharp recovery in July but analysts are reluctant to make any firm predictions as to its future course in view of the many economic cross-currents affecting investor thinking at the moment.

ASAHI ASBESTOS CO. LTD., Tokyo, Japan, has issued a catalog on its line of *asbestos textiles*. The booklet gives information on non-metallic yarns, twisted rope, braided rope packings, cloth, compressed sheets, woven brake lining and semi-molded clutch facing.

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1/1 Kimber St., Calcutta 17, India

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RICHARD KLINGER LIMITED, Sidcup, Kent, England, has introduced a new ball valve called *Ballostar* available in sizes from ½" to 2". Special features of the new valve include new patented seals, a three-piece body, and a special spindle and stuffing box design.

The new patented PTFE sealing rings are housed between two stainless steel diaphragm discs. The discs are automatically preloaded as the valve is assembled. The rings (ball seals) are fully contained and do not flow, even at elevated temperatures. The body seal is a PTFE sleeve on the outer rim of the diaphragm discs. This means the body seal, the ball seal and the diaphragms are easily handled as a single unit. "Ballostars" have two ball seals which act simultaneously and give doubly-reliable shut-off. Increased internal pressure actually tightens the seals.

The three-piece body simplifies servicing as all parts subject to wear are contained in the easily-removable center section.

All sizes of the ball valve have a complete labyrinth stuffing box on the spindle, consisting of alternate layers of PTFE and of stainless steel. The spindle is fitted from inside so it cannot be forced out by excess pressure (as in the case of fire).

COMPOSITE MATERIALS: TESTING AND DESIGN, recently published by the *American Society for Testing and Materials* as Special Technical Publication 460, discusses analytical and experimental studies of advanced composites. Emphasis is on the development of a basic understanding of the mechanical and structural behavior of both organic and metal-matrix composites. The 590-page book presents comprehensive, detailed and significant work in the areas of mechanical properties testing and examples of design application. It is divided into four sections, i.e., testing, fatigue and creep, design and application, and fracture mechanics.

Copies of STP 460 are available, at $31.00 each, plus handling and shipping charges, either through ASBESTOS Magazine or direct from ASTM, 1916 Race Street, Philadelphia, Pennsylvania 19103.

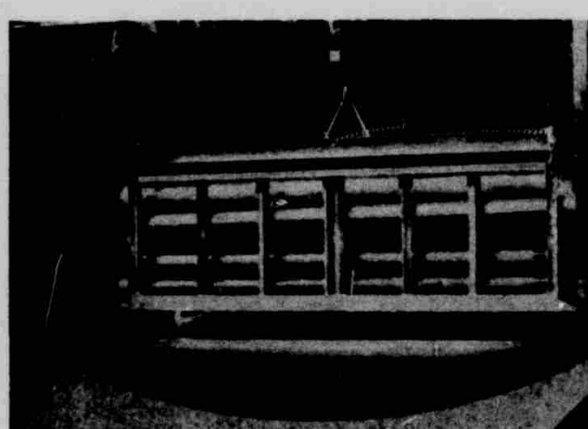
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AUTOMATIC PLANTS TO

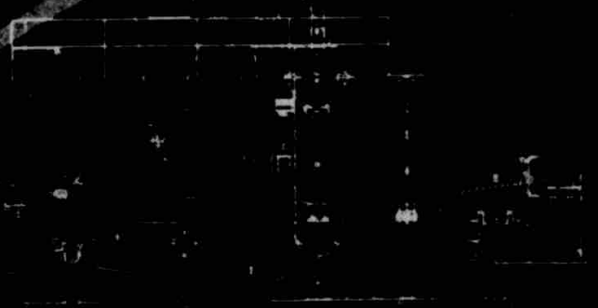


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Plants projected, delivered and started.
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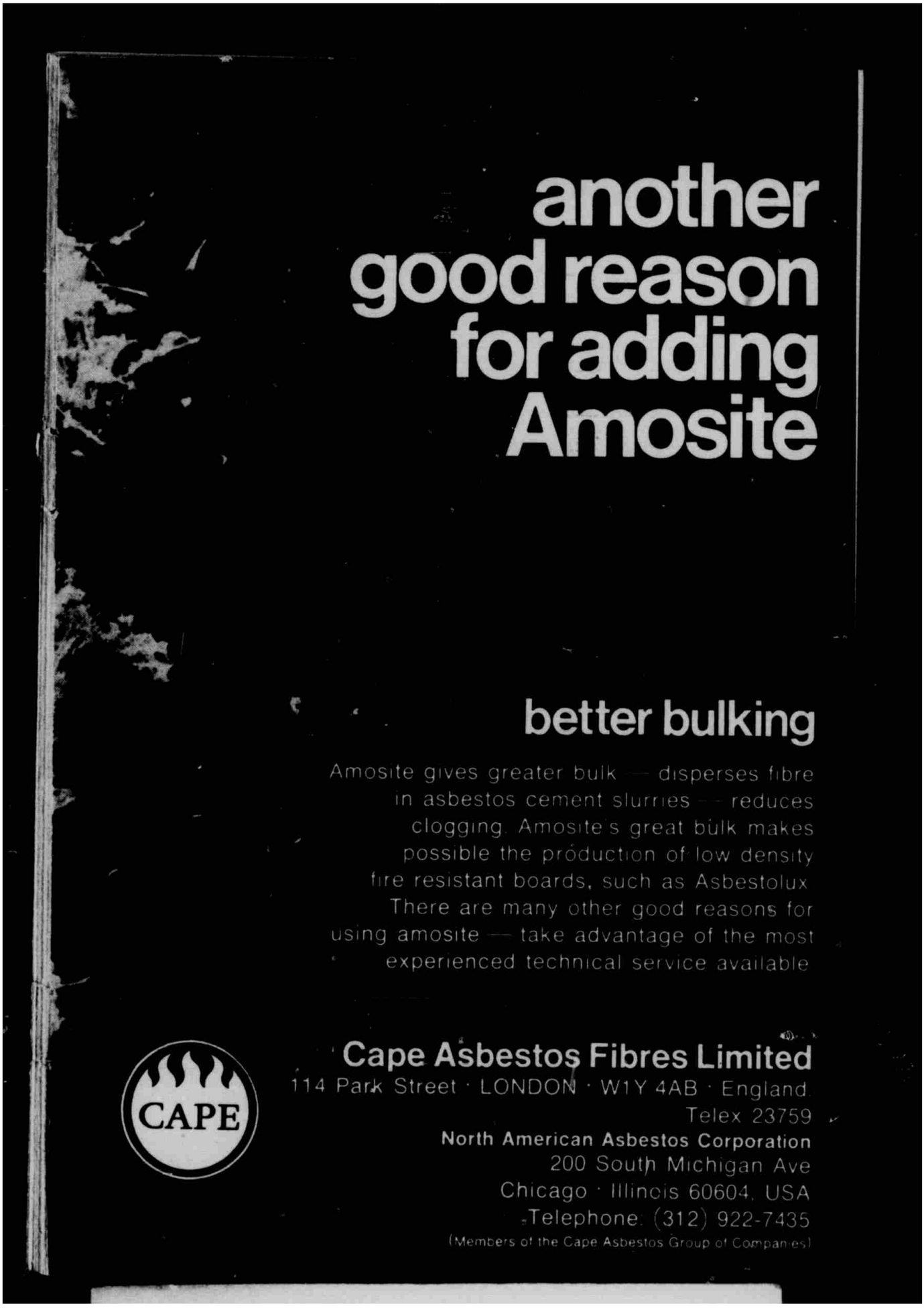
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another
good reason
for adding
Amosite
better bulking
Amosite gives greater bulk — disperses fibre in asbestos cement slurries — reduces clogging. Amosite's great bulk makes possible the production of low density fire resistant boards, such as Asbestolux. There are many other good reasons for using amosite — take advantage of the most experienced technical service available
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North American Asbestos Corporation
200 South Michigan Ave
Chicago · Illinois 60604, USA
Telephone: (312) 922-7435
(Members of the Cape Asbestos Group of Companies)

Construction News

From: McGraw-Hill Information Systems Company

JUNE 1970—The Dodge Index of construction contract value rebounded to 186 in June after dropping to a two-year low of 170 in May. Contracts in June for future construction work amounted to $6,552,918,000, a 9% seasonally-adjusted advance from the weak May rate of contracting. The latest month's total was 3% greater than the comparable year-ago amount.

Nonresidential—At $1,919,005,000, June contracts for nonresidential buildings were 17% below last year's amount. The contraction of the nonresidential building market over the past several months has been quite severe, amounting to roughly ⅓ cutback between February and May. However, June's seasonally-adjusted index of nonresidential contracts held steady at close to May's rate, suggesting that the worst of the decline has now been felt. (Industrial and commercial building are two key components of the nonresidential category.)

Residential—Housing still limped along in June, not yet showing its expected improvement in 1970's climate of cautious monetary ease. Residential building contracts, at $2,223,-908,000, were 12% behind the year-ago total. All categories—one-family homes, apartments and nonhousekeeping residential buildings—indicated declines on a June-to-June basis.

Nonbuilding—June's contracting strength was exclusively in nonbuilding construction which showed a record total of $2,410,005,000 in new work, 60% above June 1969. Among the major jobs were two large electric generating plants which brought to more than $2.6 billion the amount committed so far this year for the construction of such facilities. Strong gains in highway and military construction also helped boost June's nonbuilding contract value.

FIRST HALF 1970—Nonresidential Building, $12,-457,512,000, down 2%; Residential Building, $11,522,175,-000, down 12%; and Nonbuilding Construction, $10,411,-821,000, up 26% = Total Construction, $34,391,508,000, up 1%.

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Flatten rising costs. Improve product uniformity and purity.

Use the Bauer one-two punch.

Want to make a better product at lower cost? Or a new, finer product for new markets? Investigate the Bauer Hurricane Pulverizer-Classifier and Centri-Sonic Classifier. This one-two combination is streamlining production, saving space, reducing labor and operating costs, and improving quality in many plants.

The Hurricane Pulverizer-Classifier is a rugged air attrition mill with integral classifier. Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. Also excellent for recovering usable fibre from material normally sent to the tailings dump, and for classifying fibres collected in dust filters, etc. Simultaneously, this one machine pulverizes, provides sharp classification, extracts impurities, and air conveys material to next operation. Sizes to 150 HP.

When fibre cannot be separated from gritty impurities by conventional methods, add the Centri-Sonic Classifier. This high capacity centripetal classifier does the job with ease! Three sizes, up to 100 HP and 10 tons per hour. Ask for descriptive Bulletins G-4 and G-8.

The Bauer Bros. Co., Springfield, Ohio 45501. In Canada contact our plant in Brantford, Ontario.



BAUER A subsidiary of Combustion Engineering, Inc.

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NATIONAL METRIC STUDY CONFERENCES are scheduled as follows and further data can be obtained from Mr. J. V. Odom, Manager, National Conferences Program, B358 Technology Building, *National Bureau of Standards,* Washington, D. C. 20234. All Conferences will be held at the U. S. Department of Commerce Auditorium in Washington, D. C., unless otherwise stipulated: Engineering-Related Industry, August 17-21 (at Deerfield Academy, Deerfield, Massachusetts); Consumer-Related Industry, September 21-25; Construction, October 5-6; Consumer Affairs, October 12-13; Education, October 14-16; Labor, October 27-29; and General, November 16-20. The Conference on "General" topics will cover Agriculture, Forestry & Fisheries; Mining; Transportation; Communication and Utilities; Banking, Insurance and Real Estate; State and Local Governments; Building Maintenance, Medical, Legal and Engineering Services; Small Business Associations; and Related Professional Societies.

THE INTERNATIONAL ENGINEERING FAIR will be held at Brno, Czechoslovakia, Setember 5-14. Exhibitors will represent most of the industrially-advanced countries throughout the world including Japan, the United States, Cuba, and many Socialist and other European countries.

NOISE AND VIBRATION CONTROL COURSE will take place September 13-19 at the Red Jacket Beach Motor Inn, Bass River, Cape Cod, Massachusetts. For further information, contact Constance Harris, Bolt Beranek and Newman Inc., 50 Moulton Street, Cambridge, Massachusetts 02138.

NEW IMM PRESIDENT—M. J. Cahalan, Research Coordinator with Rio Tinto-Zinc Corporation and author of a number of technical and scientific papers, has been elected President of the *Institution of Mining and Metallurgy,* London, England, for the 1970-1971 Session, succeeding D. J. Rogers. Mr. Cahalan graduated B.Sc. (Eng.) in metallurgy from Adelaide University in 1945 and obtained the associate diploma of the South Australian School of Mines the following year.

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NEWS

FOR
ASBESTOS-CEMENT
MANUFACTURERS

Successfully launched...

SCAPA TEXTILES LTD

We believe we are the only company in the world engaged EXCLUSIVELY in the development, manufacture and sale of felts for Asbestos-Cement production. We invite enquiries for the range of Scapa felts.

* **QUICK START-UP SURFACES** ensure full production in minimum time.
* **WEAR RESISTANT BACK** resists mechanical wear.
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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 39,935,000 square yards of non-acoustic, asbestos-cement sheets were produced in the *Year 1969* compared to 38,317,000 square yards in 1968 and 33,289,000 square yards in 1967.

Canada—Producers' shipments of asbestos during *April 1970* totaled 119,904 short tons (102,340 tons from Quebec plants and 17,564 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for April 1969 was 116,223 tons.

Asbestos shipments during *May 1970* totaled 138,131 short tons (116,975 tons from plants in Quebec and 21,156 tons from Newfoundland, Ontario, British Columbia and the Yukon). The figure for May 1969 was 145,056 tons.

(The above statistics were supplied by the Dominion Bureau of Statistics, Ottawa.)

South Africa—Production of asbestos fiber for the *Year 1969* totaled 284,587 short tons: Amosite, 99,151 tons; Chrysotile, 48,012 tons; Cape Blue, 132,308 tons; Transvaal Blue, 5,056 tons.

Exports for the same period totaled 257,662 short tons, valued at R28,801,897. The breakdown is as follows: Amosite, 96,766 tons, R9,716,395; Chrysotile, 24,422 tons, R1,828,742; Cape Blue, 130,835 tons, R16,466,593; Transvaal Blue, 5,639 tons, R790,167.

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

Mineral Exploration has been issued by the *Commonwealth Bureau of Census and Statistics,* Canberra, Australia, as Statistical Bulletin No. 4, 1968. The scope of the Census is divided into four sections: Private Exploration on Production Leases; Private Exploration on Other Licensed Areas; Other Private Exploration; and Exploration by Government.

Statistical Summary of the Mineral Industry, 1963-1968 has been prepared by the Statistics Unit of the Mineral Resources Division, Institute of Geological Sciences. The statistical tables on world production, imports and exports, by country, have been compiled from data from a number of official and commercial sources. A chapter on asbestos is included. Copies are obtainable from Her Majesty's Stationery Office, London, England, at £1 7s 6d each.

ASTM Method D2590 for Sampling Asbestos Fiber for Testing 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.

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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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Imports Into U.S.A.

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

Unmanufactured Asbestos:	MAR. '70	APR. '70
Amosite, South Africa	1,272	1,680
Crocidolite (Blue), South Africa	897	1,874
Chrysotile, Crude, South Africa	61	60
Chrysotile, Spinning Fibers, Canada	1,327	1,249
Chrysotile, Other, Canada	55,103	51,327
Germany, West	56	9
India	..	5
Other Crudes & Fibers, Canada	321	75
Finland	563	402
Italy	1	..
Mozambique	30	..
Norway	..	132
Portugal	90	25
South Africa	185	370
	59,906	57,208

March unmanufactured asbestos imports were valued at $6,570,635.

April unmanufactured asbestos imports were valued at $4,334,971.

Manufactured Asbestos Goods:		MARCH 1970	
Asbestos Yarn, Slivers, etc.	Lb	229,047	$171,055
A-C Pipes, Tubes & Fittings	Lb	8,057,556	335,332
Asbestos-Cement Articles, Other	Lb	885,045	128,427
Asbestos Articles, Other		..	195,733
			$830,547

		APRIL 1970	
Asbestos Yarn, Slivers, etc.	Lb	148,672	$145,746
A-C Pipes, Tubes & Fittings	Lb	1,115,050	72,535
Asbestos-Cement Articles, Other	Lb	1,447,944	216,188
Asbestos Articles, Other		..	137,943
			$572,412

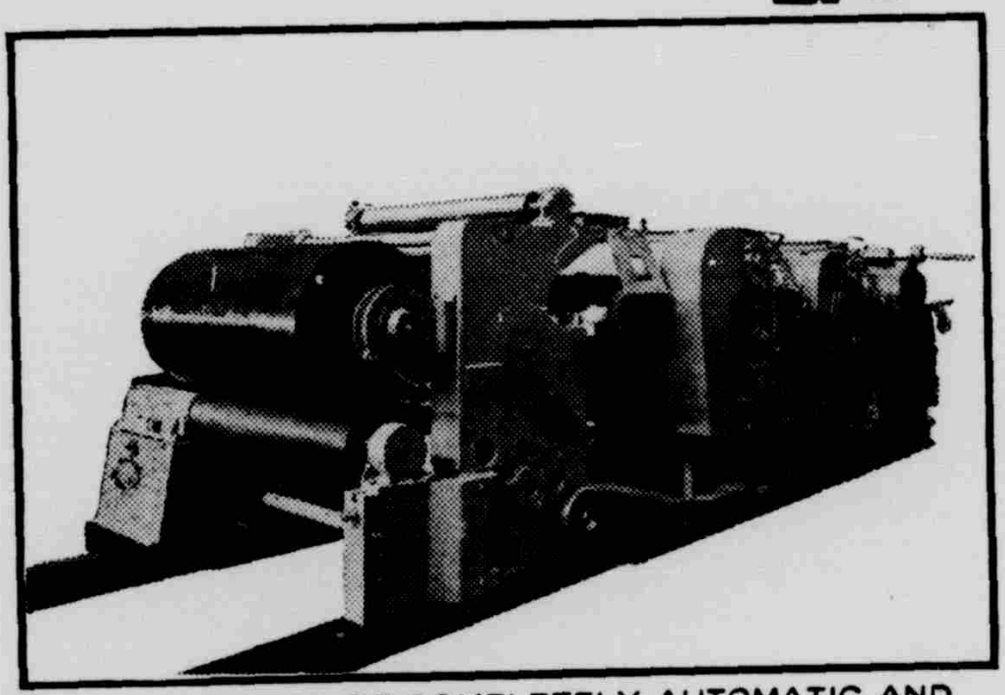
Indian Standards Institution has published *"IS: 3632-1969, Indian Standard Method of Test for Determination of Wet Volume of Asbestos Fiber."* The new Standard prescribes a method of test designed to appraise all grades of asbestos fiber in terms of buoyancy in water and is available, at R2.00, from any of the offices of the Institution.

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ASP/HAC/19

asbestos
cement
plants





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Exports From U.S.A.

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

Unmanufactured Asbestos:		APRIL 1970	
Crude & Spinning Fibers	s. tons	76	$ 13,462
Non-Spinning Fibers	s. tons	1,521	259,341
Waste & Refuse	s. tons	1,621	211,487
		3,218	$ 484,290
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,505,839	$ 142,393
Other Asbestos-Cement Articles	Lb	265,363	60,670
Asbestos Gaskets	Lb	21,733	46,245
Asbestos Packing	Lb	317,383	619,219
Asbestos Heat or Sound Insulation		..	290,151
Asbestos Textiles & Yarns	Lb	818,760	233,026
Asbestos Protective Clothing		..	15,348
Mfrs. Other than Friction Materials		..	212,334
Clutch Facings & Linings for Auto. Use	No	88,492	126,452
Clutch Facings & Linings, Other	No	135,229	50,149
Brake Linings for Automotive Use	Lb	509,035	343,963
Asbestos Brake Linings, Other	Lb	205,036	175,727
			$2,315,677

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
	APRIL 1970			
Western Europe	1	635	30,103	5,932
Eastern Europe	1	..	2,836	451
Middle East	..	..	1,038	487
Africa	..	..	50	8
Asia	..	49	5,672	4,163
Oceania	..	..	4,893	624
So. & Cen. America & Antilles	..	151	5,697	1,585
United States	..	1,424	14,159	37,802
	2	2,259	64,448	51,052

The total amount of unmanufactured asbestos exported in *April 1970* was 117,761 short tons, valued at $17,802,000.

Manufactured Asbestos Goods:

Asbestos Brake Lining & Facings	$112,000
Asbestos-Cement Building Materials	252,000
Asbestos Basic Products, Other	109,000
	$473,000

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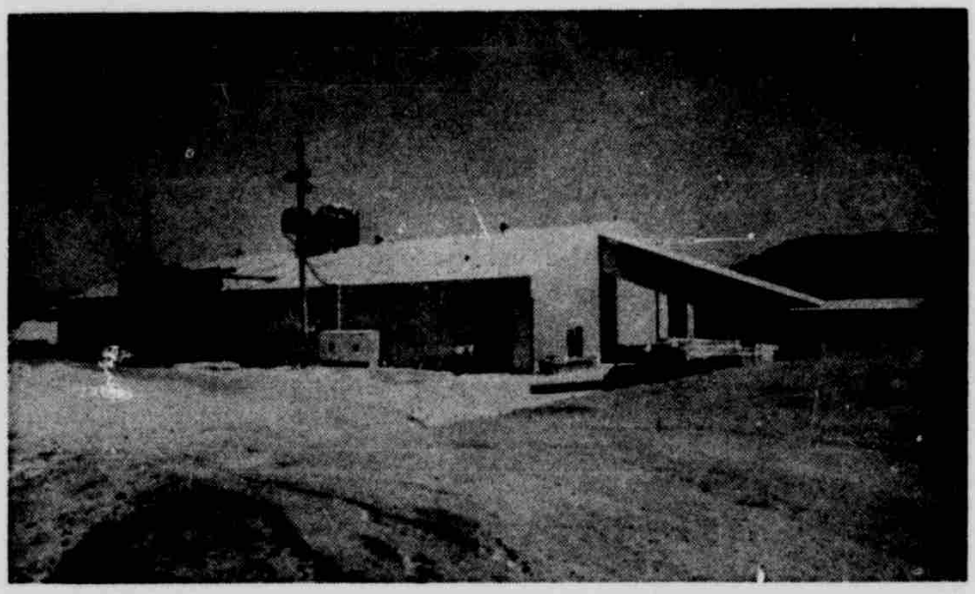
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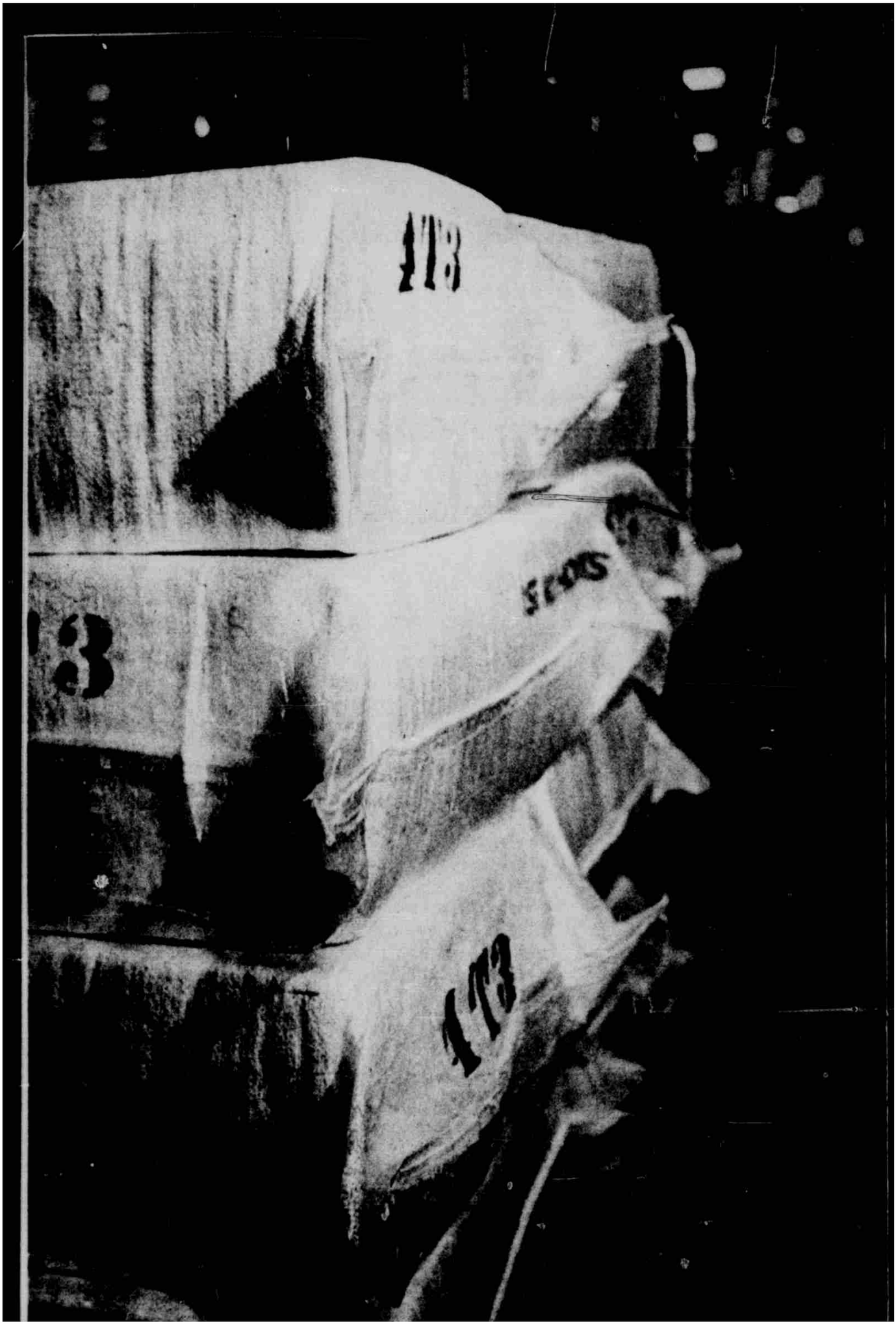
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173
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ORIENTED POLYOLEFIN MATERIAL

DU PONT CANADA

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INDUSTRY NEWS

HAPPY BIRTHDAY

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

William L. VanDerbeek, Vice President for Production and Engineering, 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 Limited, 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 Limited, Toronto, Ontario, Canada, September 19.

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

S. Ralph Zimmerman, Jr., Chairman of the Board, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, September 19.

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

Philip M. Malouf, President, United Asbestos Corporation Limited, 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 Limited, Montreal, Quebec, Canada, September 24.

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

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

Thomas Richey, Jr., Vice President, Pacific Asbestos Corporation, San Francisco, California, September 25.

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

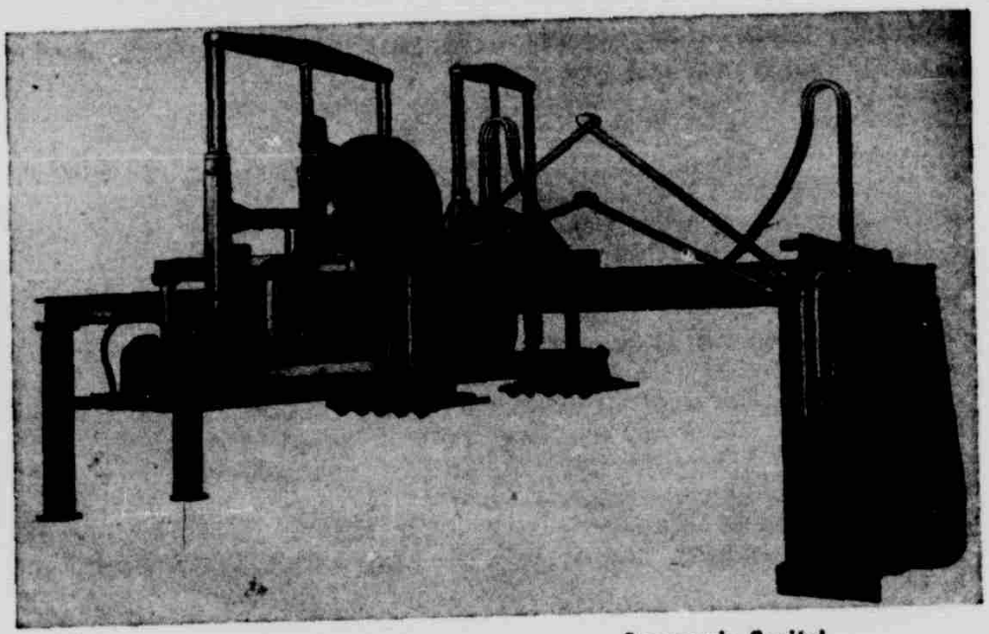
D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

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

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

Wolf E. Lehmann, Director for Europe, Africa & the Middle East, 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 Limited, Montreal, Quebec, Canada, October 3.

C. M. Fox, Director, The Cape Asbest s Company Limited, London, England, October 3.

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

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

John G. Cole, Mine Manager, Advocate Mines Limited, 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 Limited, Ghatkopar, Bombay, India, October 6.

Dr. Eugene P. Stefl, Group Vice President-Operations, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, October 6.

J. S. Munro, President, Raybestos-Manhattan (Canada) Limited, Peterborough, Ontario, Canada, October 7.

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

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

J. G. Berry, General Manager, Cassiar Asbestos Corporation Limited, Toronto, Ontario, Canada, October 11.

David L. Neil, Director of Manufacturing, Building Products Division, GAF Corporation, New York City, October 11.

A. L. Penhale, Vice-Chairman, Asbestos Corporation Limited, 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.

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

SNC in Bolivia—A $353,920 contract for a feasibility study for a pilot plant to produce asbestos fiber in Bolivia was completed by the consulting firm, *Surveyer Nenniger & Chenevert Inc.*, Montreal, Canada.

The pilot plant will cost an estimated $774,700 and will annually treat 1,500 metric tons of asbestos. If results of the pilot plant prove favorable, a plant will be constructed with capacity to produce 10,000 tons of fiber per year.

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NOTES FROM 1969 ANNUAL REPORTS

BBA GROUP LIMITED

The principal activities of BBA Group Limited are the manufacture of friction materials and industrial textiles, including asbestos yarn, cloth, tape, jointings and packings, beltings and webbings for transmission and conveying and glass fiber products.

Direct exports of the Group from the United Kingdom including sales to some overseas subsidiaries amounted to £3,777,865. For the first time Group external sales passed the £30 million mark and at £30,780,329 showed an increase of 24% over 1968. Group pre-tax profit at £2,907,923 was 4.9% higher. Net profit after tax was £1,672,848, an increase of 10.7%. After deducting minority interests, the net profit attributable to the Group was £1,433,912, an increase of 12% over 1968. Group capital expenditure rose by almost 50% to £3,655,529, mainly in further expanding friction materials facilities in the United Kingdom and in Germany.

Mintex Limited—In a year in which the motor industry in the United Kingdom suffered a set-back, Mintex was still able to show a substantial increase in home and export sales and an excellent increase in profit. Production in terms of number of pieces manufactured was 38% higher than in 1968.

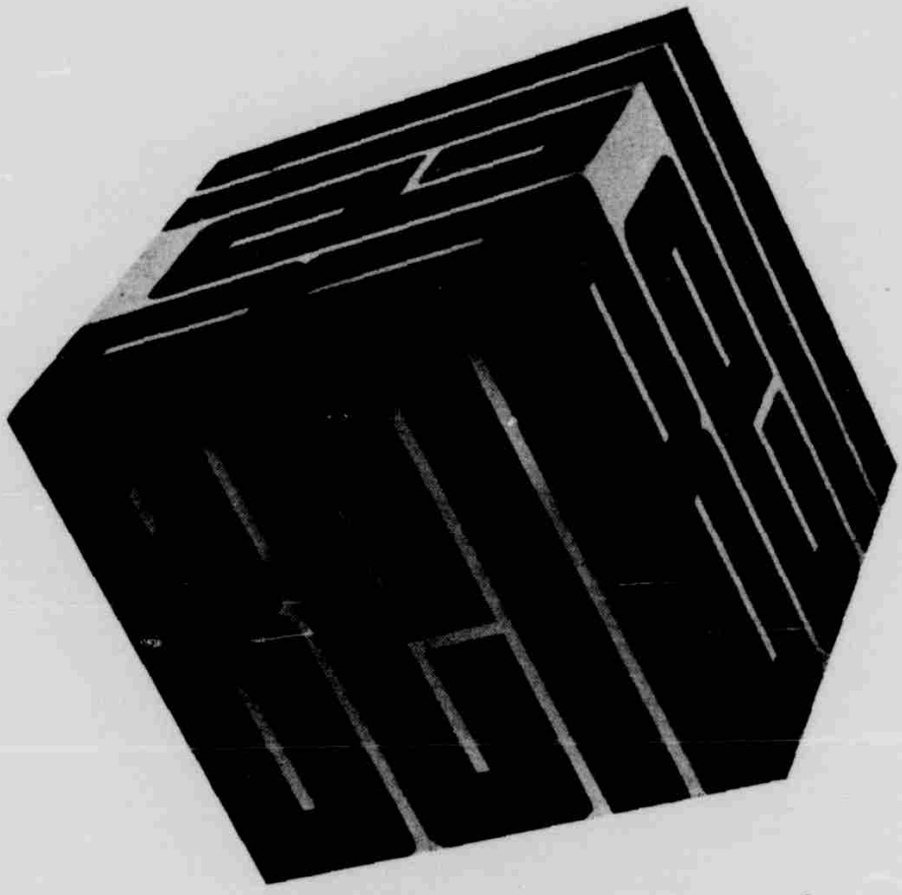
Scandura Limited—Demand for asbestos products was at a very high level and sales and profit strongly advanced. Productivity and efficiency at West Auckland improved, particularly during the second half of the year. Most of the safety requirements of the 1969 Asbestos Regulations, published by the Department of Employment and Productivity, were anticipated in the design of Scandura's West Auckland factory. The Regulations included requirements in connection with the use of finished products containing asbestos. Advice has been given to many customers on the handling of Scandura's products in application or in further manufacture and treatments are being developed to minimize dust emission. Sales of conveyor belting were satisfactory and notable progress was made in the development of heavy duty belts. The Southwark Mfg. Co. Ltd., a specialist in the joint-cutting and gasket trade, was purchased and absorbed within Scandura as a manufacturing division.

Cresswell's Asbestos Company Limited—During 1969 Cresswell's became more closely integrated with Mintex and again a profit was made.

Comprehensive Computer Services Limited—During the year BBA purchased A. E. Marston Ltd., a Data Processing Bureau in Liverpool, to meet the increasing demand on computer resources in the North-West. The larger computer at Cleckheaton is processing more information for the local companies. More advanced equipment has been added to handle more sophisticated applications but at present the facilities are not being fully utilized.

Textar G.m.b.H., West Germany, achieved a large increase in sales, and profit was higher. Investment in buildings and plant continued throughout the year so that in 1970 the pressure on Textar's

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production capacity, which has been excessively high for several years, has been reduced.

Scandura Inc., United States, made an excellent contribution to the Group result. Competition in the conveyor belting field remained strong. The footage of belting sold was only slightly lower than in the previous year but profit suffered greatly.

Mintex Federal Limited, Canada, reported increased sales within the Automotive and Industrial Divisions, but owing to severe competition and increased selling costs there was a reduction in profit. Capacity for bonding of brake linings and the manufacture of wire mesh belts has been increased.

Frenos y Embragues S.A., Spain, recorded an increase in sales and profits in spite of forebodings of a recession. Frenos has been successful in selling disc brake pads to the replacement market.

Associated Companies

English Asbestos Company Limited—Following the acquisition of Trist, Draper Ltd. by The Cape Asbestos Co. Ltd. it was decided to sell the BBA Group minority shareholding in English Asbestos, a subsidiary of Trist, Draper. Negotiations are proceeding.

Bendix Mintex Pty. Limited, Australia, is growing rapidly and both turnover and profit showed satisfactory increases. The firm is becoming more successful in the original equipment field, for disc and drum brakes.

Licensing

Promising activity continued in the field of licensing and sales of know-how chiefly in the friction materials area. Existing manufacturing licenses remained in force.

BBA is continuing its joint efforts with the Borg-Warner Corporation to enable B-W to set up an operation sufficient in size to compete in the fast-growing, disc brake pad market in the United States. Negotiations with BBA's Mintex disc brake pad licensee in Argentina were successful and the full range of Mintex friction materials will now be covered.

The Turkish Government has given approval to BBA's license for Mintex brake lining. The licensee is actively engaged in erecting the necessary plant, with BBA's assistance.

Textar secured a contract to set up a complete plant for the manufacture in the USSR of drum brake linings, disc brake pads and clutch facings for the Fiat car to be produced there.

Asbestos Corporation Limited awarded a contract to *Surveyer Nenniger & Chenevert Inc.* to build a $15 million asbestos finishing plant in Nordenham, Northern Germany. The contract includes design and construction management.

The plant will be used for the grading, packing and distribution of asbestos fiber shipped from Asbestos Corporation's Asbestos Hill Project in Northern Ungava, Quebec. It will be capable of handling 100,000 tons of fiber per year. Plant facilities will include a large fiber storage building and ship-unloading equipment to handle vessels of 50,000 dead weight tons capacity.

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The Mineral Industry of Kenya, Tanzania and Uganda—Mineral production in these three countries in 1968 totaled approximately $70.6 million, down from $81.5 million in 1967. The value of production increased in Kenya but declined in Tanzania and Uganda. No production of asbestos was reported for Kenya in 1968 but in 1967 asbestos production totaled 51 metric tons. Uganda exported, in 1967, 24 tons of asbestos. [Later figures, published in the February 1970 issue of the "Standard Bank Review" list Uganda as having exported 68.54 tons of asbestos in 1968, valued at £2,330 (Uganda currency).] In 1967, asbestos imports totaled 55 tons for Kenya, 3 tons for Tanzania and 776 tons for Uganda.

The Mineral Industry of Portugal—In 1968, significant mining developments were underway in iron ore, tungsten and salt; the iron and steel plant was undergoing expansion; and a new petroleum refinery was nearing completion. Angolan diamonds remained the principal item in Portugal's crude mineral trade in 1968. Portugal produced 102 metric tons of asbestos in 1968 (52 tons in 1967 and 10 tons in 1966). Export statistics are not given for 1968 but for 1967 the figure was 57 tons, all to the United States. In 1967, Canada and the Republic of South Africa were the principal sources of the 4,301 metric tons imported by Portugal.

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Allstate Explorations N.L., Sydney, N.S.W., Australia, has agreed to explore an old asbestos lease in the Beaconsfield District of Tasmania. Under an agreement with *Newmont Pty. Ltd.*, Melbourne, Victoria, Allstate will earn a 50% interest in the lease by spending $20,000 (Australian) on exploration including diamond drilling. Newmont has the option of participating at various stages of the exploration program.

The lease covers 160 acres of serpentinized ultramafics from which Chrysotile asbestos was mined around the beginning of the century.

Developments at Pomfret—The No. 8 Incline Shaft at the *Cape Asbestos Group's* Blue asbestos field at Pomfret, in the northern part of Cape Province, South Africa, is being installed and the sinking of another vertical shaft will be commenced in the near future.

Extensive modifications have been made on the treatment plant to cope with steadily-increasing production and to insure good working conditions as well as a first-class product. An additional 75,000 cubic feet per minute of exhaust air is to be provided to bring capacity to approximately 120,000 cubic feet per minute. A large amount of equipment-motors, cyclones, ducts, fans, etc., have been arriving at the property and the contractors are making rapid headway.

The Position of United States in World Commodity Exports in 1968 has been issued as Technical Paper 23 and is obtainable, at 50c per copy, from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402, or from any U. S. Department of Commerce field office.

The publication shows the relation of the 1970 U. S. Export Commodity Classification (Schedule B) to the Standard International Trade Classification (SITC). It gives statistics for each of over 990 5-digit Schedule B commodity codes (equivalent to over 1200 SITC codes), with aggregate exports of domestic merchandise of over $28 billion out of total exports of $34 billion. The United States was among the top three ranking exporting countries for about half of the Schedule B codes at the 5-digit level and accounted for over 60% of total U. S. exports. At the 3-digit level, the U. S. accounted for almost 90% of the value of exports. The publication also presents data on how Schedule B is related to the SITC and is valuable in interpreting trade data published by the United Nations insofar as it involves U. S. Schedule B exports.

The report covers the value of exports from 33 countries, including the United States. For crude, washed or ground and waste asbestos, the value of U. S. exports was $4.7 million, 2% of the total for the 33 countries of $189 million. The U. S., at $3.6 million, accounted for 5% of the total export value of $65.6 million for asbestos-cement or fiber-cement articles. For asbestos manufacturers, except friction materials, the U. S. totaled $12.9 million, or 23% of the overall total of $57 million. The U. S. figure for friction materials of asbestos, cellulose, etc. was $8.9 million, or 19% of the total export value of $46.8 million for the 33 countries.

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ASBESTOS STOCK QUOTATIONS

Close—July 24, 1970

Abitibi Asbestos	*$4.50
Asarco	27¾
Armstrong Cork	24¾
Armst Cork (pfd 3.75)	51¼
Asbestos Corporation	*$27.00
Bendix	24
Bendix (pfd 3)	42½
Carlisle	11¼
Cassiar	*$20.62
Certain-teed	16⅛
C-teed (pfd .90)	16¼
Conwest	*$9.25
Flintkote	23½
F-kote (pfd-A 4.50)	63⅜
F-kote (pfd-B 2.25)	30½
GAF Corporation	9⅜
GAF (pfd 1.20)	16⅜
Garlock	13⅞
Grace	24⅞
Gulf & Western	13
G&W (pfd 1.75)	40
G&W (pfd 3.50)	54
G&W (pfd 3.87)	38¾
G&W (pfd 5.75)	53
Illinois Central	18¾
Ill. Central (pfd 3.50)	38
Johns-Manville	32½
Maremont	7⅞
National Gypsum	18
Natl Gypsum (pfd 4.50)	57½
Panacon	2¼
Porter (pfd 5.50)	62⅝
Raybestos-Manhattan	22⅝
Royal Industries	5⅜
Unarco	7½
Union Carbide	36⅞
Uniroyal	14⅜
Uniroyal (pfd 8)	93½
United Asbestos	3-1/16

•Canadian currency
(Source: The Wall Street Journal)

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Australian Mineral Industry, 1968 Review, has been issued by the Bureau of Mineral Resources, Geology and Geophysics, Canberra.

Production of asbestos in 1968 continued at the low level resulting from the cessation of Crocidolite mining operations at Wittenoom, Western Australia, at the end of 1966. The only operator in New South Wales, Asbestos Mines Pty., Ltd., at Baryulgil in the Copmanhurst Mining Division, reported a production of 14,700 short tons of crude mineral containing 815 tons of Chrysotile fiber, valued at $180,042, and 6 tons of fines, valued at $99.00. In Western Australia, old dumps at Lionel were the source of 75 tons of Chrysotile produced in the Pilbara District. The Mines Department reported in July 1969 there were currently no groups actively engaged in developing or exploiting the Chrysotile or Crocidolite deposits in Western Australia.

A Chrysotile asbestos deposit at Woodsreef, near Barraba, New South Wales, is being developed. Production from this deposit could provide short fiber for the domestic market and for export. Most of the longer fibers will still have to be imported.

Exports of asbestos were at their lowest level since 1951. Shipments of Crocidolite stocks from Western Australia were completed in 1967 and exports in 1968 were chiefly comprised of Chrysotile asbestos from northern New South Wales. The average export value of all types of asbestos exported from Australia in 1968 was $231.1 per short ton, f.o.b.

Imports were at a record level of 66,741 short tons, an increase of 26.9% over 1967, mainly attributable to the increase of Chrysotile imports from Canada.

The record imports from Canada resulted in apparent consumption also being at a record level. Total apparent consumption of all types of asbestos was 66,833 short tons in 1968, compared with 50,660 tons in 1967. Consumption of asbestos fiber in asbestos-cement products, by far the most important outlet, continued to increase and totaled 50,407 tons in 1967/68. Production of asbestos-cement sheets during 1968 was the highest recorded to date and totaled 38.28 million square yards. Statistics of actual consumption of all individual asbestos products are not available.

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U.S. Reports, as listed below, are available at $3.00 per paper copy and 65c per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151. Prepayment is required.

AD 698 299—Load-Absorption by a Filament in a Fiber-Reinforced Material, by E. Sternberg & R. Muki of the California Institute of Technology for the U.S. Navy.

AD 699 140—The Scanning Electron Microscope and its Applications in Fracture Studies of Composite Materials, by J. V. Larsen of the U.S. Naval Ordnance Laboratory, White Oak, Maryland.

AD 699 349—Deformation Behavior in Metal Fiber-Metal Matrix Composites, by R. M. Vennett et al, Army Materials and Mechanics Research Center, Watertown, Massachusetts.

NASA TECH BRIEF 70 10004—Testing Filamentary Composites, by B. W. Rosen & N. F. Dow, General Electric Company, under contract to NASA Headquarters.

N 70 10030—Apollo 11, Preliminary Science Report; initial scientific observations resulting from man's first trip to the moon.

NASA SP 5021(10)—Cumulative Index to NASA Technical Briefs, 1963-1969.



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PERSONNEL NEWS

AMERICAN ASBESTOS TEXTILE CORPORATION

The election of the following new officers was recently announced: *John W. Weber,* Chairman of the Board and Chief Executive Officer; *John L. Rainey,* President; *Michael J. Scanlan,* Vice President and Treasurer; *Joseph W. Christenbury,* Vice President in charge of Sales; and *Clement J. Clarke, Jr.,* Secretary.

JOHNS-MANVILLE CORPORATION

R. H. Cuje, General Manager of J-M's Architectural & Engineered Products Division, announced the appointment of *Jack F. Sloan* as Manager of Asbestos and Plastic Panel Systems. He will be responsible for industrial asbestos-cement products, asbestos sheets and sandwich panels and Corrulux and pipe protection products. Mr. Sloan joined J-M as a salesman in 1951.

SIMPLICITY ENGINEERING COMPANY

Simplicity Engineering, a subsidiary of General Steel Industries, announced the appointment of *Jack Daurity* as Sales Representative for the territory including Southern Virginia, North & South Carolina, Florida and Georgia. A native of Siler City, North Carolina, Mr. Daurity was previously employed by a manufacturers' representative.

Carlton L. Oesterle was named Personnel Manager, according to Robert L. Pierce, President. Mr. Oesterle worked in the company's Accounting Department from 1955 to 1957 and then spent 12 years in various personnel and administrative positions in the automotive industry.

UNIROYAL, INC.

Dr. Thomas H. Newby has been appointed Technical Director of the Uniroyal Fiber & Textile Division, it was announced by W. Lindsay Wylie, Vice President & General Manager. He succeeds *Dr. G. R. Cuthbertson,* who is retiring after 34 years with Uniroyal. Dr. Newby will direct all phases of research and product development within the division and will be responsible for coordinating the division's long-range growth plans by directing its commercial development operations. He will headquarter at the Textile Administrative Center in Winnsboro, South Carolina. He joined the company in 1947.

Stewart N. Smith was named Commercial Development Manager, Uniroyal Fiber and Textile Division, according to Mr. Wylie. Mr. Smith will be located at the Textile Administrative Center and will report to Dr. Newby. He has been with the firm since 1956.

VIBRA SCREW INC.

Robert Papa, formerly with Ultramatic Finishing Equipment Company, joined Vibra Screw as a Regional Manager.

Kenneth Kardux was named Assistant Sales Manager with primary responsibility for system concept sales. He had been Eastern Regional Sales Manager for Howe Richardson Scale Company.

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

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

U. S. Patents issued from June 9 through July 7, 1970.

3,518,217—Sprayable Vibration Damping Materials, by R. M. Irwin & D. H. Kollock (assigned to Philadelphia Resins Company, Inc., Philadelphia, Pennsylvania), June 30.

3,519,475—Thermosetting Resin Coated Asbestos Yarn for Use in Dryer's Felts, by C. Hoyle, E. G. Stevens & J. M. Gibb (assigned to Johns-Manville Corporation, New York City), July 7.

3,519,591—Process for Treating Fillers, by J. C. Bolger (assigned to Amicon Corporation, Lexington, Massachusetts), July 7.

3,519,593—Polymer Coated Mineral Filler and Method of Making and Using the Same, by J. C. Bolger (assigned to Amicon Corporation, Lexington, Massachusetts), July 7.

3,519,594—Coated Asbestos and Method of Making and Using Same, by A. S. Michaels (assigned to Amicon Corporation, Lexington, Massachusetts), July 7.

Producers and Exporters

of

SOUTH AFRICAN RAW ASBESTOS FIBRES

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VOLKSKAS BUILDING · 76 MARKET STREET

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We are represented in most European Countries,

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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 (Shingle Fiber)	218.00 —	369.00
No. 5 (Paper Fiber)	157.00 —	184.00
No. 6 (Waste)	..	114.00
No. 7 (Refuse, 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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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**

A MEMBER OF THE BBA GROUP CLECKHEATON · YORKSHIRE · ENGLAND



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Remember When?

(August 1920 ASBESTOS)

New Advertiser: General Asbestos Co., Ltd.

The main article in this issue, by R. L. Gregory of Interlake Pulp & Paper Co., described the many and varied uses of asbestos in electrical insulation work where the dielectric and thermal properties of the material were being found of great value.

Information from the U.S. Bureau of Mines regarding reports of the discovery of rich asbestos deposits in the Kotzebue region of western Alaska indicated that asbestos had been found near Shungnak on the Kobuk River and a small occurrence had been noted at Chitina on the Copper River. In neither case was the fiber of really good quality and there was no evidence of any large deposits in either area.

Southern Asbestos Mfg. Co. of Charlotte, North Carolina, was reported to be erecting two additional plants at costs of $45,000 and $65,000, respectively.

Acknowledgment was made of the receipt of a collection of interesting pictures of asbestos properties in Siberia and much information concerning asbestos operations in that part of the world, all supplied by Messrs. Becker and Haag of Berlin, Germany, one of the world's largest jobbers of asbestos crudes and fibers.

An asbestos property in Luzon, Philippine Islands, was reported to be yielding substantial quantities of Grades 1, 2 and 3 asbestos. Some fibers up to three feet in length were reported as having been found.

At a meeting of the Directors of the Valley Forge Magnesia Co., Port Kennedy, Pennsylvania, James Stewart, Jr., was elected Treasurer and B. Frank Bean was elected Secretary of the company.

H. Kuhns, Manager of the Railroad Department of Republic Rubber Co., was elected Vice President of Union Asbestos & Rubber Co., Chicago, Illinois, and Union was appointed western railroad sales agent for Republic.

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CUT...



WET...



APPLY

NEW PREPASTED SPEEDLAG®

ASBESTOS INSULATING CLOTH INSTALLS IN LESS TIME, AT LOWER COST

Simpler installations, faster-cleanup, neater work are among the advantages of new R/M Speedlag.

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.

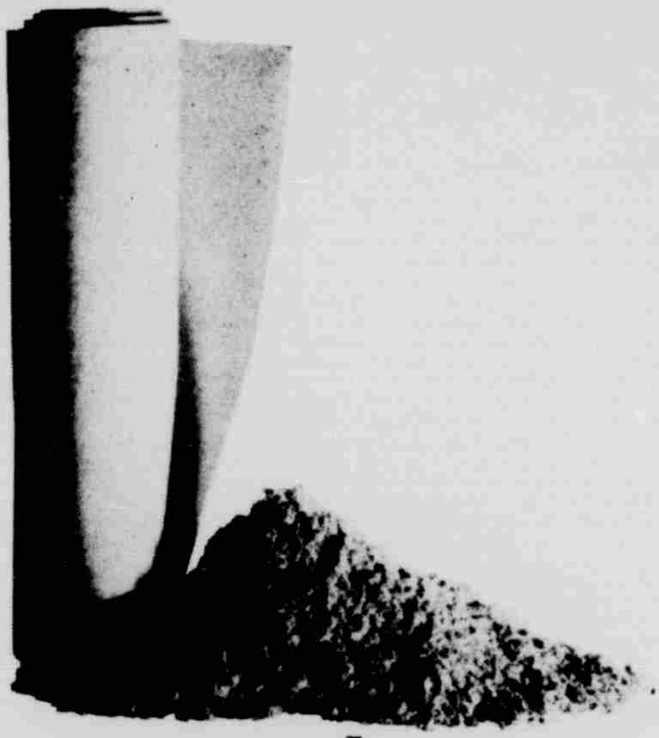
Speedlag can be supplied in several weights and two ASTM Grades. Underwriters Grade base fabrics are manufactured to Fed. Spec. SS-C-466e, 7/2/64. AAA Grade base fabrics are available for insulation on merchant vessels covered by U.S. Coast Guard Specifications—Subpart 164.009.

Contact us for full details on new prepasted Speedlag.

Raybestos RM Manhattan

ASBESTOS TEXTILE DIVISION BRIDGEPORT, CONN. 06603

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Two good starts...

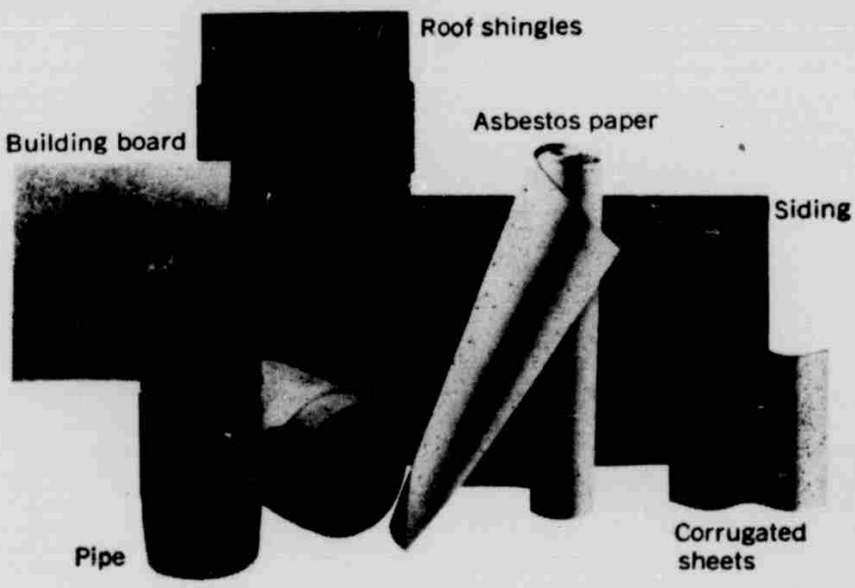
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Our involvement with asbestos fiber starts at our own Vermont mines. We control the quality from start to finish. And our standards are high. Partly for selfish reasons. Because much of the fiber ends up in our own asbestos products.

And asbestos fiber is only part of our story. If you make asbestos-cement products, get another head start with Drylon synthetic felt. It drains better, stays clean and keeps its shape longer, and imparts a smoother, more uniform finish to your product.

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