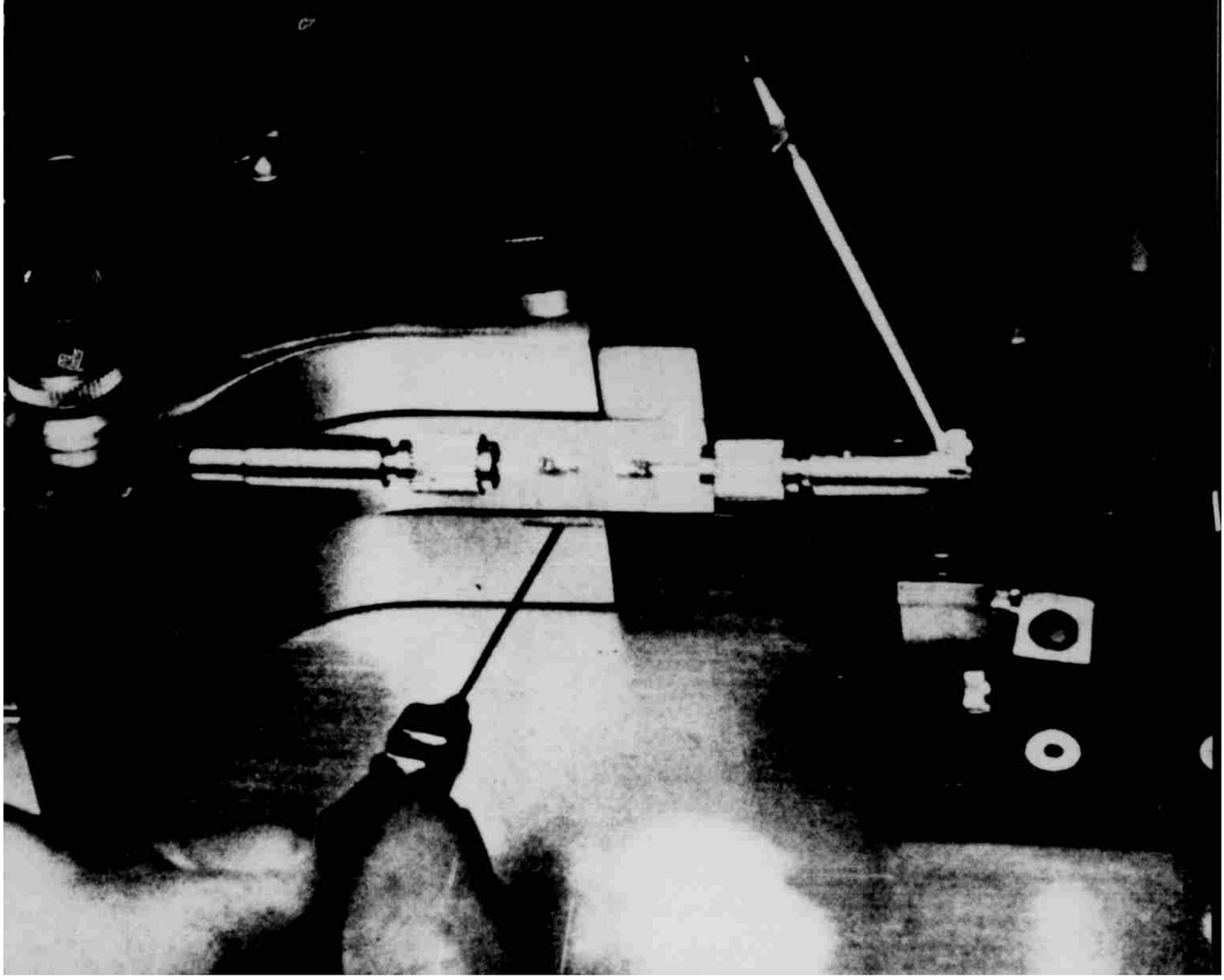
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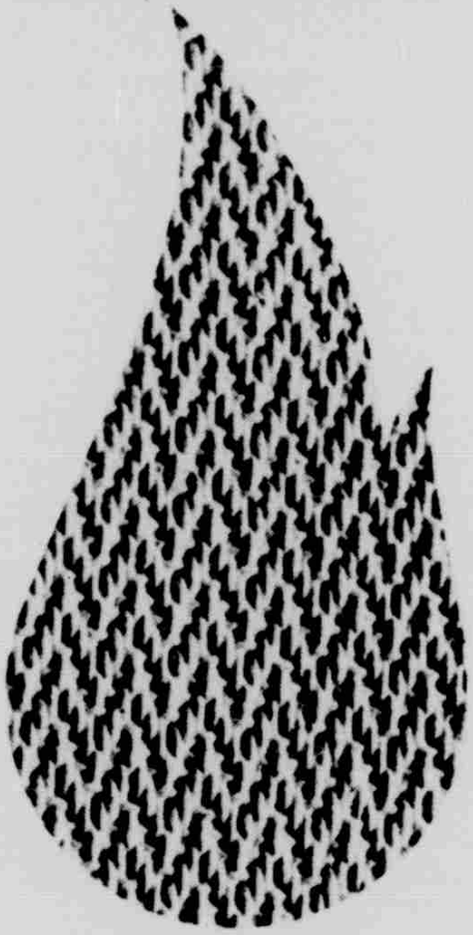
Textile History of Southern Asbestos (Thermoid) and Asbestos Spinning & Weaving Corporation



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ASBESTOS

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XVI: Southern Asbestos Manufacturing Company (now Charlotte Works, Thermoid Division, H. K. Porter Company, Inc.)

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

In order to begin the history of the Southern Asbestos Company it is first necessary to identify two men—W. H. Truesdale and C. H. Carlough. In 1914 Bill Truesdale came from a cotton mill in Lincolnton, North Carolina, to become Superintendent of Manufacture of the General Asbestos & Rubber Company at North Charleston, South Carolina. Herb Carlough had already entered the employ of Garco as a clerk in 1912. Bill Truesdale was a business-generation older than Herb Carlough.

In June 1919 Bill Truesdale left Garco and founded Southern Asbestos Manufacturing Company at Charlotte, North Carolina, incorporated with a capital stock of $300,000. The first President of the company was Capt. C. E. Childs (Bill Truesdale's father-in-law).

The original manufacturing staff at Southern Asbestos was drawn from Garco and included Herb Carlough, Hurd Knox, Charles Marshall, Pete Vehue and Walter K. Medernach (Bill Truesdale's brother-in-law).

Southern Asbestos Mfg. produced a limited line of asbestos textile products. The company sold roving, yarn, cloth and tape to a variety of industries. From 1919 until about 1926 automobiles and trucks were equipped with two-wheel external contracting brakes. This type of brake required a woven asbestos brake lining. And, in those days, all cars used multiple clutch discs with a woven asbestos facing on each steel disc. Friction materials, therefore, represented by far the largest usage for asbestos textiles during that period of time. Southern's two largest accounts were the Thermoid Rubber Company of Trenton, New Jersey, and the Russell Manufacturing Company of Middletown, Connecticut. Thermoid purchased untreated brake lining tape in carload lots.

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Johns-Manville JM



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Russell bought metallic yarns in like quantity and wove its own brake linings, which were sold under the RUSCO brand name.

The year 1926 saw the introduction of the internal expanding brake for trucks and automobiles—and the start of the four-wheel brake. It was soon demonstrated that a molded brake lining was at least equal to a woven lining for use with the four-wheel brake. Size for size, a molded lining is substantially cheaper to manufacture than is a woven lining. Bill Truesdale could see the "handwriting on the wall" and became concerned about the future market for his products.

In 1927 Southern's mill was sold to Schluter & Company, investment bankers, and Bill Truesdale, Herb Carlough and staff continued to operate the plant. The name of the company was changed at that time to Southern Asbestos Company.

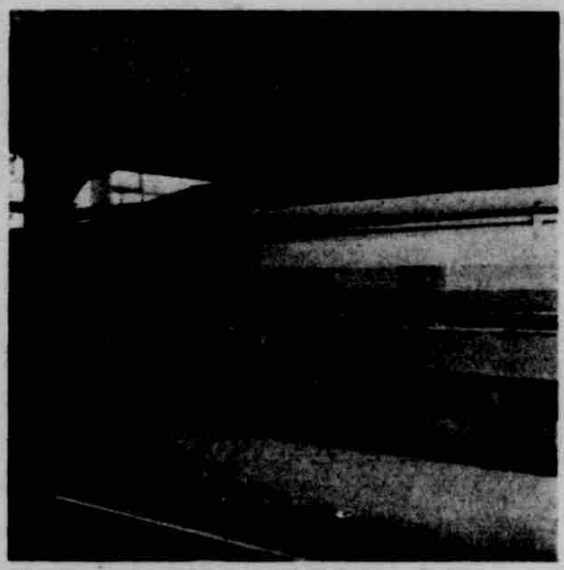
In 1929 Schluter purchased a controlling interest in the Thermoid Rubber Co. from the Stokes family of Trenton. Frederick Schluter, President of Schluter & Co., wanted Southern Asbestos to purchase 10,000 shares of Thermoid stock at $34.00 per share. Bill Truesdale did not consider this a good deal and declined the offer. Disagreement resulted, causing a serious rift between the two executives. Fred Schluter pushed the deal through anyway and Southern Asbestos Co. became, in effect, a part of the Thermoid organization.

Matters went from bad to worse and by January 1930 Bill Truesdale and Herb Carlough decided to leave Southern. They purchased a small asbestos textile mill in the neighboring town of Davidson, N.C., known as the Kubar Manufacturing Company. Bill Truesdale was Chairman of the Board and Herb Carlough was President and the active head of the firm. This was the start of Carolina Asbestos Company. (The history of Carolina Asbestos will be covered in Chapter XXI.)

The two mills, Southern and Carolina, produced similar lines of products and were designed to service essentially the same market. Since Charlotte and Davidson are only 18 miles apart, the mills drew on almost the same labor market. In the early days of the industry there was considerable pirating of personnel and under these circumstances it is not difficult to see why an intense rivalry developed between the two companies.

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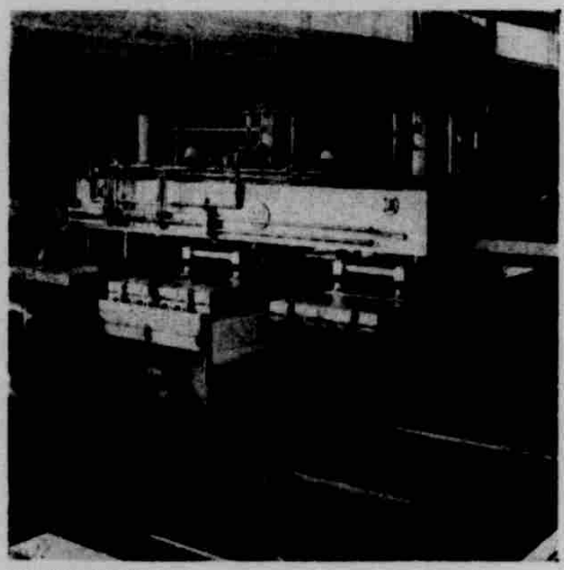
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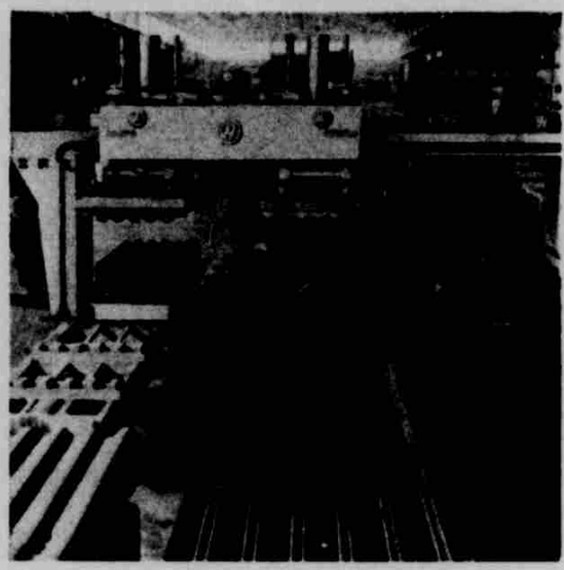
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The situation was worsened by the great stock market crash that had occurred in 1929. By January 1930 business activity in general was slowing down at an alarming rate and the normal tempo of competition in all lines of business sharpened considerably. As might be expected, a bitter conflict developed between Southern and Carolina resulting in the prices of asbestos textile products being driven to loss levels, affecting the entire industry.

When Bill Truesdale and Herb Carlough left Southern in January 1930, Thermoid did not have a textile executive to manage the business, although the manufacturing staff was still largely intact. Thermoid, therefore, sent one of its most seasoned, all-around executives to Charlotte to supervise as General Manager. George S. Fabel had had years of experience in the friction materials industry and in mechanical rubber goods. His most ardent detractor would have to admit that George Fabel was one of the greatest salesmen ever to operate in this industry. He set about at once to build up a sales organization to market asbestos textiles from coast to coast.

Jesse T. Griffis supervised the Order Department at Charlotte and handled most of the sales correspondence. George J. Harris, operating out of Stamford, Connecticut, was responsible for the territory encompassing New York and New England. Oscar Ferens, formerly with Keasbey & Mattison, covered New Jersey and Pennsylvania. Robert Snyder had offices in Cleveland and handled Ohio and Michigan. John A. Bettes worked out of Chicago and highspotted the Midwest. His territory was outlined by Duluth, Chicago and Detroit on the North and by Kansas City, St. Louis and Louisville on the South.

Many members of the industry will recognize that since that time the members of this small sales team have been very much a part of the industry. George Fabel was the third President of the Asbestos Textile Institute in 1949-50 and for several years was a member of the Board of Governors. Jack Bettes served ATI as President in 1957-58. Jesse Griffis took his turn in the same chair in 1959-60. George Harris has served as Chairman of the Institute's Sales Promotion Committee. He also capably represented the industry for many years as a member of ASTM Committee D-13 for Textile Materials.

The sales team at Southern, hired and trained by George

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Fabel, succeeded in lessening the dependence of the mill on the friction materials industry. A line of specialty fabrics was developed for the safety garment industry, the laminated plastics industry and for thermal insulation contractors. Yarn, roving, lap and cable filler were sold to a long list of wire and cable accounts and several styles and grades of asbestos yarn were sold to a large number of asbestos packing manufacturers.

By 1941 Southern Asbestos had developed a very comprehensive line of asbestos textiles. It was only natural, therefore, that Southern was called upon to furnish large tonnages of many products during World War II. Southern wove vast yardages of all the Navy specification lagging cloths. The enormous ship-building program undertaken during the war called for prodigious footages of shipboard cable. Southern furnished lap, roving and cable filler used to insulate Navy specification cables. Brake lining tape went to Thermoid Rubber, the parent company, at Trenton for conversion into brake lining and brake blocks for Army trucks.

Post-war, Southern embarked on a program of replacement and modernization. Under the direction of Factory Manager J. L. (Jerry) Mitchell, the mill was brought to peak efficiency. Unfortunately, however, this was not the case with the parent company. Thermoid's main plant at Trenton was a hodgpodge of old buildings and was unavoidably inefficient. The business fell upon difficult times. To protect his heavy investment, Fred Schluter took over the Presidency of Thermoid in 1931. Effective December 11, 1958, The Thermoid Company merged into H. K. Porter Company and thus became an integral part of Porter's new Thermoid Division, headed by Warren E. Hill, former Thermoid President. Southern, as a part of Thermoid, automatically became an H. K. Porter property.

Jesse Griffis was Manager of the Charlotte Works from January 1964 to April 1965, during which time he hired Lawrence E. Moody to work on product development. Larry Moody had been assistant to Walter C. Atkinson, Manager of Johns-Manville Corporation's textile manufacture. In short order Larry Moody was promoted to Manager of Manufacturing and then to Manager of the Charlotte Works. As Works Manager at the Charlotte Works of Porter's Thermoid Division, he currently has the responsibility for all of Porter's textile operations. Larry Moody represents his com-

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pany as an active member of ATI. He currently serves as President and a member of the Board of Governors, and has been re-elected for the 1971-72 term.

And so it was that Southern Asbestos Company, for 36 years a respected name in asbestos textiles, faded from the industry's roster.

Chapter XVII: Asbestos Spinning & Weaving Corporation

Asbestos Spinning & Weaving Corporation, Waterford, New York, was started in the early 1920's by Edward Slade. It was founded primarily to exploit the potential of a patented asbestos fabric—the warp consisted entirely of .008" brass wire; the filling was asbestos roving twisted with brass wire to provide a soft yarn which would be readily saturable.

The firm's original plant was an old woolen mill that had five sets of 48" cards, ring twisters, 40" looms, and so forth. Power was generated by a water wheel, turned by water from a canal originating from the Mohawk River.

The major market for the patented fabric was the Glendenning Brake Lining Company, Billerica, Massachusetts. Glendenning saturated the fabric with an asphalt-base brake lining compound. The fabric was then slit to tape widths, folded and stitched with brass staples into standard-sized brake lining tapes. This was a popular type of brake lining used prior to 1926 when automobiles and trucks had external contracting brakes only on the rear wheels.

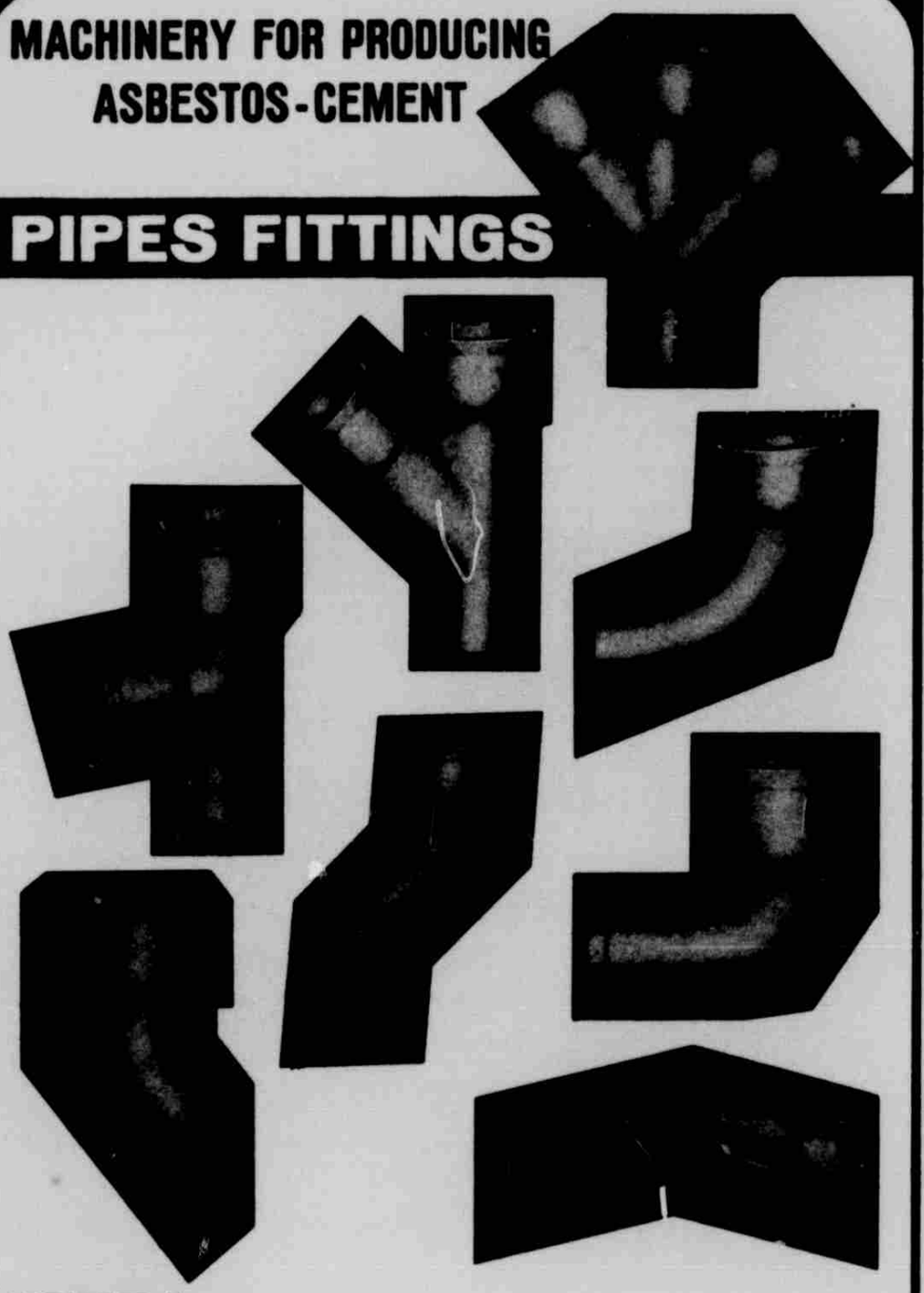
ASAWCO is remembered in the trade principally because of the association with some of the noted veterans of the asbestos textile industry. O. H. Cilley, formerly with U.S. Asbestos Company, joined Asbestos Spinning in December 1923 as Factory Manager. [During this period R. M. Bryan was President of ASAWCO with offices at 16 Beaver Street, New York City. His letterhead identified the company as a manufacturer of filter and theater curtain cloth as well as of ASAWCO brake lining.] Mr. Cilley later became General Manager of the U.S. Asbestos Division of Raybestos-Manhattan, Inc., and a Vice President of the Corporation.

In 1927 Herbert E. Sunbury accepted the position of Factory Manager with Asbestos Spinning & Weaving. During his tenure the plant was equipped to handle its own im-

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pregnating and to produce finished ASAWCO brake lining.

Edward Slade sold his interest in the company in 1924 and founded the Slade Products Corporation at Watervliet, New York. In 1928 the company was refinanced as The Slade Asbestos Corporation. The firm later became The Marshall Asbestos Company and is now the Marshall-Eclipse Division of the Bendix Corporation.

Asbestos Spinning & Weaving Corporation was liquidated in 1932. It had been a one-product mill and the folded and stitched brake lining it manufactured was not suitable for use with the newer internal expanding brake. By 1930 the internal brake had become standard equipment on almost all automobiles. Thus ended a company which failed to keep pace with the technological advances occurring in the industry of which it was a part.

The Next Two Chapters . . . .

will be published in the February 1972 issue of ASBESTOS and will cover the histories of Allbestos Corporation and the West Coast Asbestos Company (including Emsco Asbestos Company and its subsidiary, Fiber & Metal Products Company).

PREPRINTS FROM ASBESTOS CONFERENCE

Preprints of the papers presented at the 2nd International Conference on "The Physics and Chemistry of Asbestos Minerals" held in September 1971 at Louvain University, are obtainable at (U.S.)$10.00 per set from any of the members of the Conference Committee. Those of our readers who would like a complete set of the preprints should directly contact any of the following: Dr. G. Poncelet, Institut des Seciences de la Terre, Heverlee, Belgium; Mr. A. Gosseye, Eternit S.A., Kapelle-op-den-Bos, Belgium; Dr. A. A. Hodgson, Cape Asbestos Fibre Research Laboratory, Uxbridge, Middlesex, England; Mr. B. Lincoln, Turner & Newall Asbestos Fibre Laboratory, Manchester, England; Dr. E. J. W. Whittaker, Department of Geology, The University, Oxford, England; or Prof. J. Zussman, Department of Geology, The University, Manchester, England.

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THE COVER

A micro-tensile testing machine to measure the tensile strength of asbestos fibers is in use at the Research Laboratory of Cape Asbestos Fibres Ltd., at Uxbridge, Middlesex, England. As illustrated on the front cover, vacuum tweezers are used to mount the fiber in the testing machine. The precision instrument accurately determines the strength and Young's modulus of small asbestos fiber specimens. With the aid of an adhesive, the approximately 0.5 centimeters long by 20 microns thick samples are mounted on two spade-like anvils. The load on the fiber is increased in steps and the extensions of the sample produced by each load increment can be determined. This procedure continues until fracture occurs. A built-in microscope allows observance of the sample during the period of testing. The cross-sectional area of the sample under test is calculated from measurements taken of its weight, length and density. This technique also has been employed to find out how heating asbestos fibers to various temperatures in oxidizing atmospheres affects their tensile strength. Work is continuing to produce similar data for asbestos fibers heated in inert atmospheres.

DR. GIRSBERGER TO RETIRE

As of the end of this year, Dr. H. Girsberger will retire as publisher of the "International Asbestos-Cement Review." Dr. Girsberger, via Editions Girsberger, Zurich, Switzerland, is known as the distinguished publisher of the important works of such famous architects as Richard J. Neutra, Le Corbusier and Alvar Aalto.

Since its inception, more than 280,000 copies of the Review have been distributed to architects and others interested in the applications of asbestos cement, through the sponsorship of 45 manufacturing companies. Beginning with Volume 17, AC 65, the publication of the quarterly magazine will be handled by Karl Kramer Verlag, a renowned architectural book publisher and bookseller in Stuttgart, Germany. Kramer plans to open a subsidiary in Zurich.

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Gold Bond
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ASBESTOS-BASED PRODUCTS

THE CHOICE WAS R/M 'GATOR TAPE

Underground line construction crews at Indianapolis Power and Light Company are given the opportunity to select which product they prefer for use on a particular job. After field trial, the insulating material called 'Gator Tape was chosen by the workmen, especially for its flexibility as well as economical cost. A product of the Asbestos Textile Division of Raybestos-Manhattan, Inc., it contains 80%-85% asbestos fiber and was developed specifically for wrapping underground cables. 'Gator Tape contains a special resinous binder that offers superior resistance to abrasion, acids, alkaline solutions, water and leaking gas or oil. It picks up only 18% of water over a ten-day period, as compared to untreated asbestos tape which absorbs 100% of water in less than 24 hours. Its excellent handling characteristics are due to a new flame-retardant solution that protects the organic carrier, a solution that is much less concentrated than others used by R/M and its competitors yet achieves the same degree of fire resistance.

LESS TOXIC FUMES FROM A/C CORE

According to AllianceWall Corporation, Alliance, Ohio, four out of five deaths in fires are not caused by the flames but are the result of smoke, poisonous gases and similar fire by-products. Almost all modern paneling materials—wood, plastics, resins—under fire emergency conditions will produce significant quantities of toxic fumes. However, the company reports that its porcelain-on-steel panels will not generate smoke and fumes and will not thermally degrade at temperatures up to 1450°F. The panels are available with hardboard or gypsum backing or with a core of mineral composition or asbestos cement. Those with an asbestos-cement core are incombustible under Federal Specification SSB-775 Type U and fume generation is undetectable.

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COMPANY LITERATURE

CAPE ASBESTOS GROUP

Cape Asbestos Fibres Ltd. has printed a new brochure on "Amphibole Asbestos" which will interest many of our readers. The beautifully-illustrated, full-color publication contains data on the history and development of the Asbestos Industry; mining, milling and fiberizing methods; physical and chemical properties; technology; quality testing; and applications. Also included are brief chapters giving commercial information and the services offered by the Group. Copies are obtainable from The Cape Asbestos Company Ltd., London, England.

WGM SERVICES TO THE MINERAL INDUSTRY

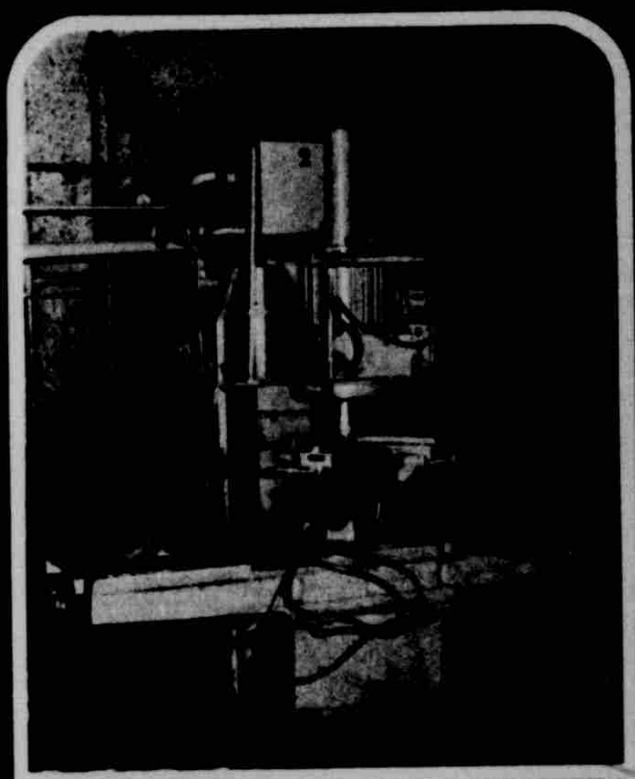
Watts, Griffis and McOuat Ltd., Toronto, Canada, has issued an informative company brochure to describe in general terms the scope of integrated and independent consulting service it can offer to the mineral industry. Since incorporation of the Canadian company in 1962, these skills have been employed on projects in 24 countries, including several asbestos projects. Copies of the brochure are available, in English, French or Spanish editions, directly from WGM.

TURNER & NEWALL GROUP

"Wind Loading on Asbestos-Cement Cladding" (Tech 9) was issued by TAC Construction Materials Ltd., Manchester, England, for use as a guide in complying with the new loading requirements as set forth in the revised British Standard Code of Practice, CP3: Chapter V: Part 2: 1970. . . . Turner Brothers Asbestos Company Ltd., Rochdale, England, has added two new compounds to its ARPYLENE range of reinforced thermoplastic moulding materials—asbestos-reinforced polypropylene compound classified as "non-burning" and an asbestos-reinforced polystyrene compound classified as "self-extinguishing." A new series of histograms rating the ARPYLENE range in terms of cost/property benefits is available from TBA.

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RIVA-CALZONI
S.p.A.

ASBESTOS TEXTILE INSTITUTE

The Asbestos Textile Institute held its third General Meeting of the year at the Savannah Inn & Country Club, Savannah, Georgia, October 6-8, 1971.

Re-elected to office were: President—Lawrence E. Moody, H. K. Porter Company, Inc.; Vice President—Milton Q. Scowcroft, Raybestos-Manhattan, Inc.; Treasurer—Alexander Kuzmuk, Garlock Inc.; and Executive Secretary—Herbert E. Sunbury.

Work sessions were held by the several committees, namely Air Hygiene & Manufacturing, Asbestos Advisory, Technical, Fiber Testing, and Environmental Health. Newly-appointed Chairmen were Kenneth A. Roberts of Johns-Manville Corporation to head the Air Hygiene & Manufacturing Committee and J. W. Echerd of H. K. Porter Co., to chair the Technical Committee.

Noel W. Hendry, Canadian Johns-Manville Asbestos Ltd., reported on the international market situation for asbestos fiber, stating that production during the first 7 months of this year had exceeded that for the same period in 1970.

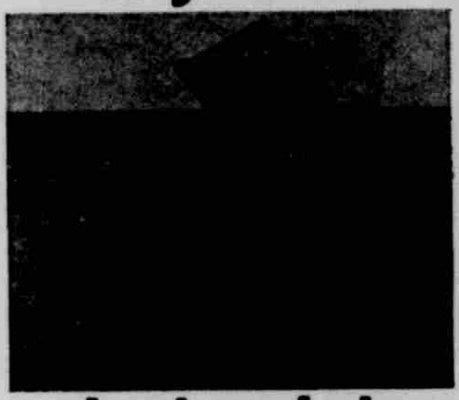
"Pending Legislative Developments" was the subject discussed by C. L. Sheckler, Manager, Accident Prevention and Health Administration, Johns-Manville Corporation. Mr. Sheckler reviewed the latest developments in respect to the Occupational Safety & Health Act and the National Emission Standard for Asbestos as proposed by the Environmental Protection Agency.

A large attendance at the meeting included four former Presidents of ATI—George S. Fabel (1949-50), John A. Bettes, Jr. (1957-58), Staton J. Peele, Jr. (1963-64) and John L. Rainey (1967-68). Traveling the greatest distance to attend the event was Rafael E. Arnal, Manufacturas Multiples S.A., Caracas, Venezuela.

Mr. Bettes, author of the "History of the Asbestos Textile Industry in the United States," currently being published serially in ASBESTOS, was, by acclamation, appointed "Official Historian, Asbestos Textile Industry/USA." In expressing his appreciation for the honor, Mr. Bettes said he wanted to thank the many people who had sent him information for the History. He further suggested that those wishing reprints of the entire History should send their orders promptly to the magazine.

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LAKE ASBESTOS OF QUEBEC

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QUESTIONS & ANSWERS / ASBESTOS & HEALTH

Have you ever felt the need for factual replies to queries posed to you about the harmful effects of asbestos on health? A plastic laminated pocket-sized card is now available that lists positive answers to the questions most asked about the subject, such as: Is asbestos a major air pollutant? Do brake linings emit much asbestos into the air? Does the use of asbestos cause disease in the general public? Can a little bit of asbestos kill you? Once asbestos enters the lung, does all of it remain there forever? Should asbestos be banned until proven safe? To what extent is asbestos an occupational health hazard? Can asbestos be used safely in the workplace? Shouldn't substitutes for asbestos be used whenever possible? What is industry doing about the problem? For further information contact the Asbestos Information Association/North America, 22 East 40th Street, New York, New York 10016.

CAPE UNIVERSAL CONTROLS DUST

A market survey showed that in order to meet the requirements of the Asbestos Regulations 1969 it would be necessary to devise suitable attachments for hand tools. Cape Universal Building Products Ltd. has developed a range of portable hand tool accessories to control asbestos dust when cutting, on site, asbestos-based building materials. The design of the shroud for the power drill allows the drill to be accurately positioned. When drilling, the front portion of the nozzle compresses against the panel thus sealing the drilling area.

ASBESTOS RESEARCH PROGRESS REPORT

The first Progress Report of the study of the "Aqueous Surface Chemistry of Asbestos Minerals" [see ASBESTOS, July 1970] has been prepared and a limited number of copies are available from Dr. Ross W. Smith, Department of Chem-

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ical and Metallurgical Engineering at the University of Nevada, Reno, Nevada 89507. The research project has a twofold purpose: (1) to determine the extent to which the Chrysotile, Amosite and Crocidolite varieties of asbestos are soluble in aqueous solutions of selected salts and acids, and (2) to determine the cation exchange capacity of the minerals.

ARC RESEARCH SURVEY

The Asbestosis Research Council is continuing its research into the possibility of producing a prophylactic agent capable of inhibiting the formation of fiber tissue in the lungs. Other medical and biological research programs sponsored by ARC have involved extensive studies and experiments related to the effects of inhaled and injected asbestos dust in animals. The effect of asbestos fibers on the alimentary tract has been investigated and animal ingestion experiments have been made using different types of asbestos. No carcinogenic or other effects have been demonstrated during the course of this work.

The Council has also concerned itself with asbestos dust measurement and control and it is likely that its Membrane Filter Method of dust measurement will be officially adopted as an international standard. The Council does not believe that there is any evidence of the existence of a public hazard from the presence of asbestos dust in the general atmosphere, but it is applying the sophisticated techniques needed to detect and estimate minute concentrations of asbestos dust in an effort to determine the facts.

In addition, ARC has prepared a series of Control and Safety Guides to recommend the procedures that are necessary to fulfill the requirements of the Asbestos Regulations 1969.

The above and other vital efforts of the Council are included in "Achievements 1957-71," a review of the work carried out by ARC since its formation. Copies are obtainable from Dr. S. Holmes, Secretary, Asbestosis Research Council, P.O. Box 40, Rochdale, Lancashire, England.

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PROCESSING & HANDLING

BIN ACTIVATORS & BELT FEEDERS

Technical Bulletin T105, available from Vibra Screw, Inc., Totowa, New Jersey, describes how Vibra Screw Bin Activators with built-in heating elements can sustain above-ambient temperatures in bulk materials while promoting their flow from storage to process. . . . Full details on the Vibra Screw line of volumetric belt feeders are given in Technical Bulletin BF271. It describes the two basic types of machines and includes a discussion of volumetric feeding principles.

METERING & SCREEN CLEANING

Complete descriptions of three high-capacity revolving screen cleaners are offered by Sprout, Waldron & Company, Inc., Muncy, Pennsylvania, in size classification Bulletin 4050. Units detailed are the scalping reel, the malt cleaning reel and the industrial reel. . . . S-W's side inlet model of the SR rotary valve, assigned U.S. Patent #3,574,411, is used as an air lock to meter granular, free-flowing material into pneumatic conveying systems, without shearing or breaking the material. Additional data is given in Bulletin 2810.

FEEDER & INTEGRATING SYSTEM

Thayer Belt Feeders with Silent Bridge Breaker Hoppers can deliver a controlled, uniform flow of difficult-to-handle materials. As described in Bulletin 2A0305B, the rate of feed is regulated by gates or a variable speed drive motor and since vibration is limited to the internal screens, the feeder can be attached to the storage hopper without damage. . . . A new LVDT Oscilator-Rate-Totalizer offers a convenient solid state integrating system for constant speed weigh feeders and belt scales. Request Bulletin 5D61 from Thayer Scale Division, Cutler-Hammer, Inc., Pembroke, Massachusetts.

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NEWS

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MARKET CONDITIONS

GENERAL BUSINESS

Latest statistics indicate no pronounced change in general business conditions as a result of the current wage-price freeze. The psychological reaction of business, labor and the general public has, thus far, been quite favorable except from certain groups who feel, probably rightly, that they have been hurt more than others due to the timing of the freeze. While very little can be done about their grievances at the moment, there are definite indications that the wage and price boards being established to implement Phase 2 of the program will give such cases thorough consideration and will be empowered to correct situations where obvious inequities have resulted from the freeze.

The ten percent surcharge on tariffs on imported goods has naturally met with protests from our largest foreign suppliers. However, the fact that they realize the need for their cooperation in stabilizing the U.S. economy is indicated by Japan's recent limitation placed on exports of textile to this country. Likewise, the revaluation of many currencies in the foreign exchange market, while seeming to have an adverse effect on the economies of certain countries, is something which would have been necessary in the long run to preserve or re-establish a stable world economy and any further delay would simply have made the final reckoning more difficult for the countries involved.

Interest rates have dropped recently in the face of reduced loan demand and some leading bankers are advocating discarding the time-honored "fixed" prime rate in favor of a "floating" prime rate which would be much more responsive to loan demand and general economic conditions. The stock market, which moved sharply higher immediately following the wage-price freeze, has been drifting downward for some weeks reflecting the uncertainties of investors as to what may develop after November 15 when Phase 2 of the control program will become effective.

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ASBESTOS FIBER

Shipments of asbestos from Canadian producers during the first seven months of 1971 were 892,864 tons compared to 864,181 tons in the same period of 1970, or an increase of slightly over 3%. Shipments in the month of July were lower than in the same month of 1970, reflecting the effect of the price increase as of July 1, 1971. Undoubtedly, significant purchases were made in advance of the price increase.

Although the 10% surcharge on imports into the United States will not apply to asbestos fiber, the effect of the imposition of the surcharge will probably be significant on sales of asbestos fiber to specific countries in the world and, in particular, to Japan and Germany. A reduction in asbestos shipments to these and other countries could result in a pause or an abatement in economic growth so long as the surcharge remains in effect or if a similar excess cost emerges due to a relignment of the currencies versus the U.S. dollar.

Conversely, if the control imposed by the U.S. Government is to have the predicted results on the economy in that country, the demand for asbestos should show a significant increase in the year ahead. In addition, the expected increase in automotive sales in the present-model year and the surging housing starts should add significantly to the volume of demand for asbestos.

ENVIRONMENTAL DIMENSION

In a keynote address at the Western Resources Conference at Golden, Colorado, Dr. Elburt F. Osborn, Director of the U.S. Bureau of Mines, said that mineral producers must learn to care about the environment "or someone else will do their caring and make their decisions for them." A growing environmental consciousness throughout the U.S. is causing the public to demand a greater voice in decision-making about activities affecting the environment. The mineral industries can retain maximum control over their future operations only if they "cultivate some concern for the environment."

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World Wide CONSULTING SERVICES

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

PROJECTS INCLUDE:

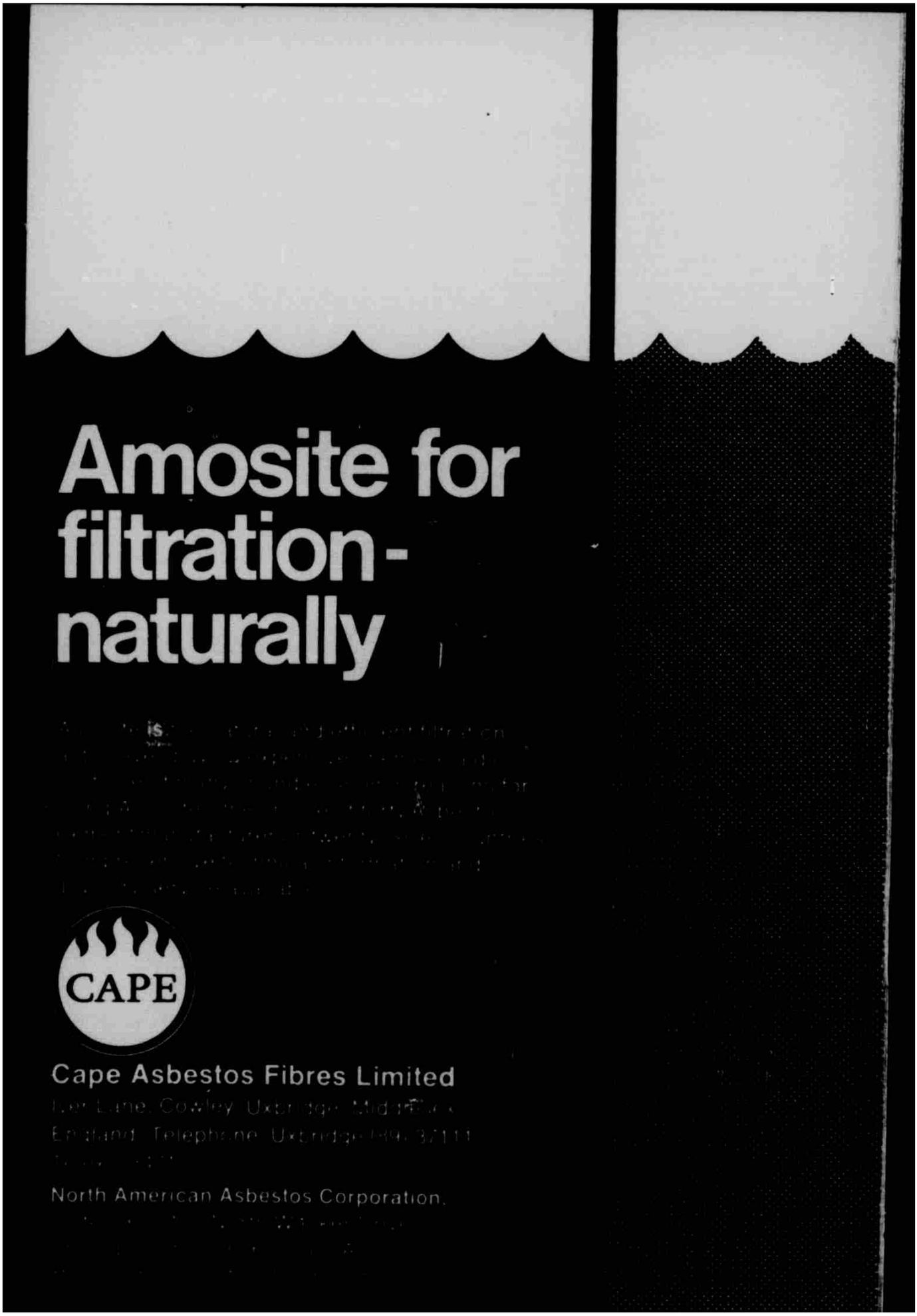
Canada:	Advocate, Baie Verte, Newfoundland Johns-Manville, Mill No. 5, Asbestos, Quebec Johns-Manville, Reeves, Ontario Carey-Canadian, East Broughton, Quebec Flintkote, Thetford Mines, Quebec
Australia:	Woodsreef Chrysotile Corp., Barraba, N.S.W.
South Africa:	Msauli, Barberton
West Germany:	Asbestos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

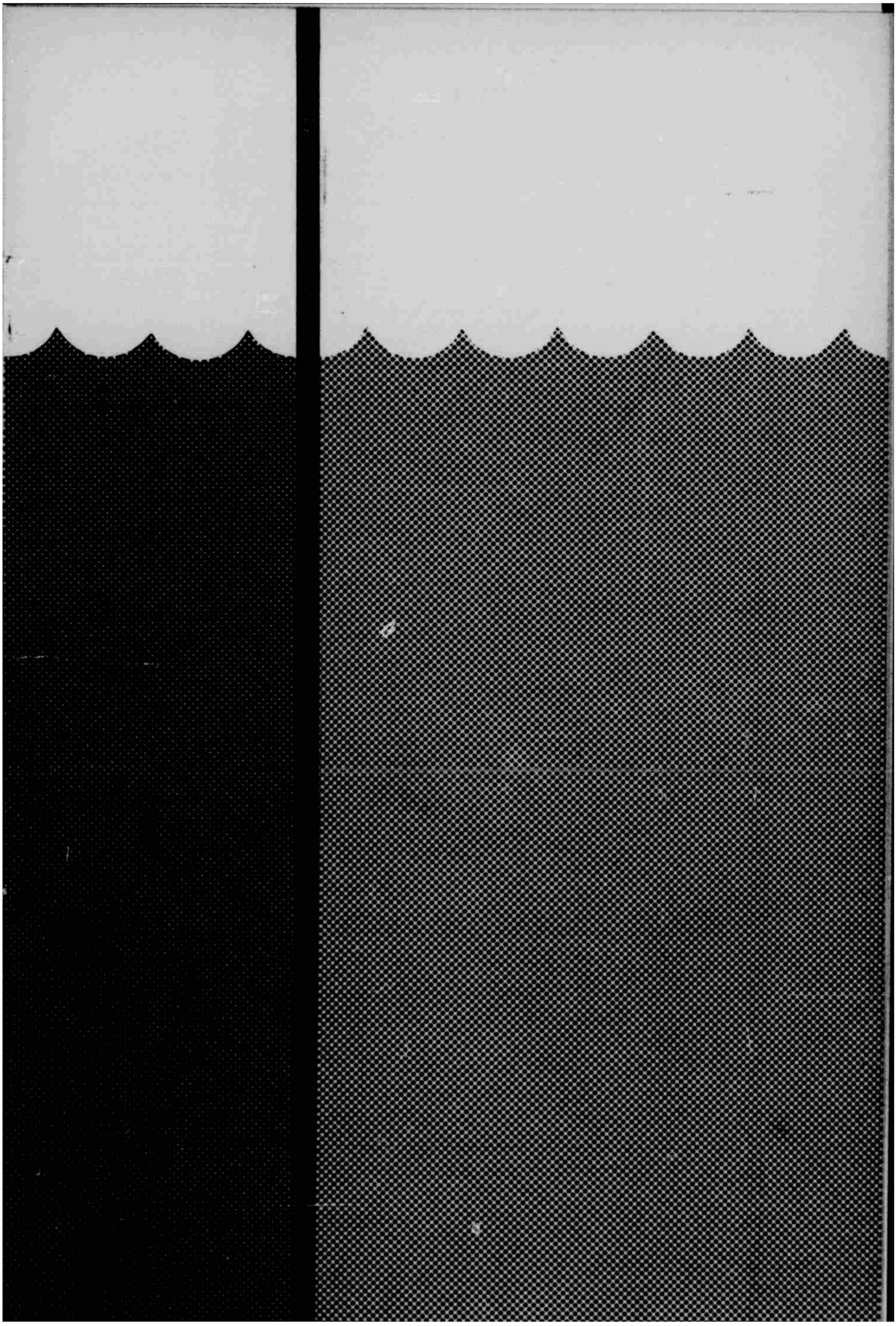
Feasibility studies have been carried out in Australia, Bolivia, Turkey, Canada, Greece and Mexico.

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1972 CONSTRUCTION OUTLOOK

Increased nonresidential construction in 1972 plus housing close to this year's level will lift construction contract value 4% to $82.6 billion in 1972, compared with an expected total of $79.8 billion in construction contracts for 1971. In 1972 the seasonally-adjusted Dodge Index (1967=100) is expected to advance to 150 from 145 in 1971. The projected 4% increase in construction contracts in 1972 will be following an exploding 1971 construction market that is expected to post a 17% gain over the previous year. This means that the strong expansion in 1971 is not just a temporary surge but rather a future base on which additional growth will be built. The greatest gains in 1972 will be in industrial building, stores and other commercial buildings, transportation, and environmental work such as sewer and water facilities.

A 9% increase in contracts totaling $21.6 billion is forecast for nonbuilding contracts in 1972. A 7% increase is foreseen for nonresidential construction with contracts reaching $27.2 billion. Manufacturing construction alone should rise 25%. Residential building is expected to decrease 2%, to $33.9 billion. The greatest overall construction gains should occur in the Midwest with an estimated rise of 7%, followed by the Northeast with a 5% increase and the South, up 2%. Construction in the West will show a 1% decline. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

AUGUST 1971 motor vehicle factory sales from plants in the *United States* totaled 639,854 (passenger cars—484,796; trucks and buses—155,058). The cumulative total for the First Eight Months of 1971 was 6,952,495 compared with 5,914,756 for the same period in 1970.

Motor vehicle factory sales from plants in *Canada* totaled 83,246 in August 1971. The cumulative total from January-August 1971 was 882,457 against 839,915 for the like period in 1970. [Automobile Manufacturers Association]

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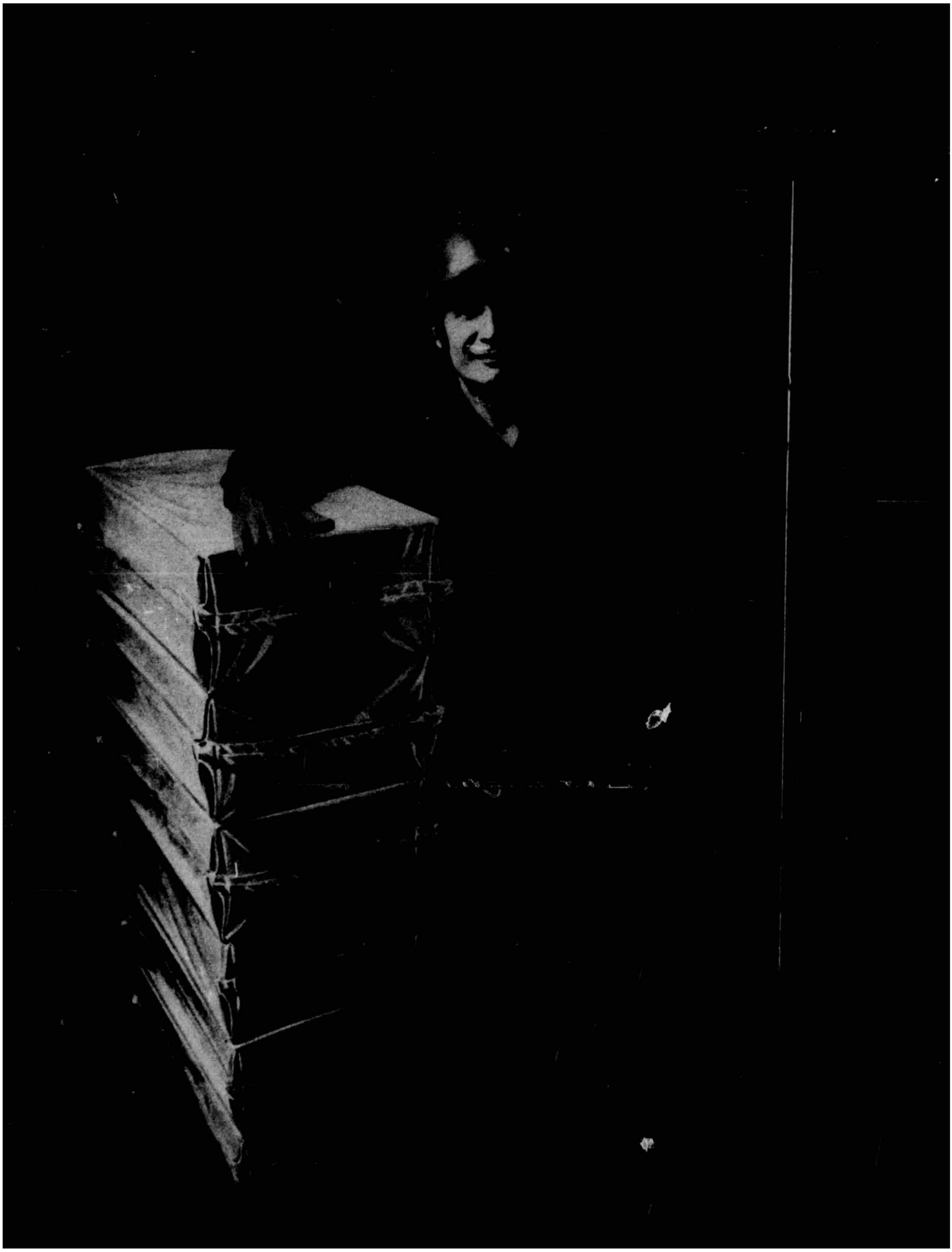
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What we're really saying is that 'Fabrene' has what you want and what your product needs: It has extra-ordinary strength, built right into its very fabric; and knowledgeable technicians to back it all up with suggestions and ideas to help you and your 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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PRODUCTION—IMPORTS—EXPORTS

Australia—Production of non-acoustic asbestos-cement sheets from *July 1970-March 1971* totaled 29,504,000 square yards, compared to 30,625,000 square yards for the same nine-month period of the previous year. [Commonwealth Bureau of Census and Statistics, Canberra]

Canada—Producers' shipments of asbestos during *August 1971* totaled 129,637 short tons (106,708 tons from Quebec plants and 22,929 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for August 1970 was 140,961 tons.

January-August 1971 cumulative total was 1,022,501 short tons, against 1,005,142 tons during the same eight-month period of 1970. [Dominion Bureau of Statistics, Ottawa]

GOVERNMENT PUBLICATIONS

Statistical Summary of the Mineral Industry, 1964-69—contains tables on world production, imports and exports, by country, which information was compiled from data published in a number of official and commercial sources; a chapter on asbestos is included. [Prepared by the Statistics Unit of the Mineral Resources Division, Institute of Geological Sciences; £1.50 net per copy from Her Majesty's Stationery Office, London, England]

Australian Mineral Production, 1968-69—presents details of the output of minerals during the year ended June 1969 for each State and Territory and for Australia, together with information for Australia for the four preceding years; figures for 1968-69 are preliminary and subject to revision; production of asbestos for the year 1968-69 amounted to 821 short tons, valued at $180,000. [Commonwealth Bureau of Census and Statistics, Canberra, Australia; Publication Reference No. 10.51]

U.S. Mineral Industry Survey—preliminary assessment of company reports indicates a worsening in 1970 of injury experience in the mineral extractive and processing industries of the United States; the injury-frequency and injury-severity rates for all injuries retrogressed 5% and 7%, respectively, from the 1969 data; overall operating activity as measured by man-hours worked was 2% higher than in 1969. [Injury Experience and Worktime in the Mineral Industries, 1969-70; Mineral Industry Survey; U.S. Bureau of Mines, Washington, D.C. 20240]

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

JUNE 1971

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	588	$ 111,102
Non-Spinning Fibers	s. tons	831	165,635
Waste & Refuse	s. tons	2,390	321,312
		3,809	$ 598,049
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	2,415,623	$ 244,231
Other Asbestos-Cement Articles	Lb	520,035	102,073
Asbestos Gaskets	Lb	47,180	98,437
Asbestos Packing	Lb	333,923	647,979
Asbestos Heat or Sound Insulation		..	346,190
Asbestos Textiles & Yarns	Lb	1,128,857	262,538
Asbestos Protective Clothing		..	10,279
Mfrs. Other Than Friction Materials		..	258,393
Clutch Facings & Linings for Auto. Use	No	81,017	99,012
Clutch Facings & Linings, Other	No	112,579	45,733
Brake Linings for Automotive Use	Lb	652,441	410,493
Asbestos Brake Linings, Other	Lb	231,523	180,871
			$2,706,229

EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics

JUNE 1971

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	3	1,489	28,320	15,690
Eastern Europe	..	58	3,889	670
Middle East	..	..	1,337	10
Africa	..	..	1,650	301
Asia	17	398	8,583	13,395
Oceania	..	..	3,090	2,189
So. & Cen. America & Antilles	..	57	8,581	2,856
United States	4	1,444	14,991	41,388
	24	3,446	70,441	76,499

The total amount of unmanufactured asbestos exported in *June 1971* was 150,410 short tons, valued at $21,593,000.

Manufactured Asbestos Goods:		
Asbestos Brake Lining & Facings		$ 76,000
Asbestos-Cement Building Materials		138,000
Asbestos Basic Products, Other		244,000
		$ 458,000

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MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 4: Current Technology

Most Chrysotile asbestos deposits, including those of Vermont and California, Canada, Southern Rhodesia, Swaziland, the Republic of South Africa and the USSR, consist of irregular cross-fiber veins (closely packed fiber set at a right angle to the faces of the rock fractures) or slip-fiber zones (shear planes in rock filled with fiber matted together parallel to the seam) in massive serpentine. Such deposits commonly extend to unknown depths. Those of Arizona, however, consist of more or less horizontal asbestos-bearing serpentine zones in thin-bedded limestone. Such deposits are generally less extensive and less persistent than those in massive serpentine. The Amosite and Crocidolite of South Africa occur in banded ironstones that are so folded and contorted that the veins are irregular.

In Vermont the fiber-bearing rock is removed from an open pit. Similar methods are employed in the Copperopolis district of California, but in the Coalinga, California, area the highly sheared ore is simply "plowed" and allowed to air-dry and the coarse fraction is screened out from the millfeed. The usual practice in Arizona is to drive a heading in barren limestone beneath the fiber zone, which is later blasted down and hand-cobbed. The Canadian mines generally are open pits. The Chrysotile from Southern Rhodesia, South Africa and Swaziland is obtained from underground mines. Amosite is obtained chiefly from large underground workings and Blue asbestos from small open pits and shallow mines. The Soviet deposits are worked both in open pits and underground. Cyprus has large open-pit workings.

Asbestos milling is a complex operation involving primarily the separation of fiber from rock and classification of fiber by length into a series of grades. The operator has little control over the proportions of the various grades, which are fixed in nature, but he has the important task of minimizing fiber damage. He must mill the rock with as little fiber breakage as possible, because short fibers are worth much less than long fibers. Special types of rock disintegrators have been developed, and reduction is accomplished in stages with fiber removal by air suction at each stage.

In Arizona the hand-cobbed rock is reduced in jaw crushers and the fiber is separated by screening. Special milling techniques have been developed for the matted short-fiber Chrysotile of the Coalinga district, including grinding and wet-milling processes. In Vermont and Canada the mills are large and complex. The fiber is classified into many grades such as spinning, cement stock, paper stock, etc.

A pressure-packing process is used at many mills whereby the asbestos fiber is packed under pressure in bags of five-ply paper or a polyolefin material. Each bag contains 100 pounds of fiber and occupies about two cubic feet of space.

NEXT CHAPTER—RESEARCH & APPARENT RESERVES

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PARTNERS INVESTIGATING IN AUSTRALIA

Mt. Coora Mining N.L. and **Austral-Pacific Mining Corporation Ltd.,** prospectors headquartered in Sydney, Australia, have located an important chromite deposit at Marlborough, Queensland. The partners are also investigating asbestos, nickel and copper prospects in the region.

COLOMBIAN ASBESTOS

Exploitation of asbestos from a deposit at Campamento, Department of Antioquia, Colombia, is scheduled to begin in 1973, with an expected annual production of 25,000 metric tons. **Compania Minera Emmo S.A.** holds a 30% interest in the development of the property and foreign capital will be made available through **Nicolet Industries Inc.** Total investment should be approximately $2.6 million of which 45% will be for imports of necessary machinery. The property has proven ore reserves of 280,000 tons and probable reserves of 420,000 tons. It is expected the net balance of payments from asbestos exports will average $1.5 million per year and about $2.5 million annually will be saved in foreign exchange costs formerly spent on imports.

INDIAN ASBESTOS INDUSTRY

The Indian Bureau of Mines has published an extremely comprehensive monograph titled "Mineral Facts & Problems, No. 1—Asbestos, May 1969." Included in the informative publication are chapters concerned with the varieties of asbestos and their properties; forms and types of world deposits; domestic occurrences and reserves; exploration, evaluation and mining methods; processing, beneficiation and reclamation; substitutes for and the systhesis of asbestos; testing, grading and classification; uses and specifications; world resources, production, consumption, prices and import/export statistics; and problems. [For additional information, please contact Mr. P. M. Rao, Senior Editor for Controller, Ministry of Petroleum, Chemicals, Mines and Metals, Indian Bureau of Mines, Nagpur, India.]

NEWS FROM KURUMAN & BARBERTON

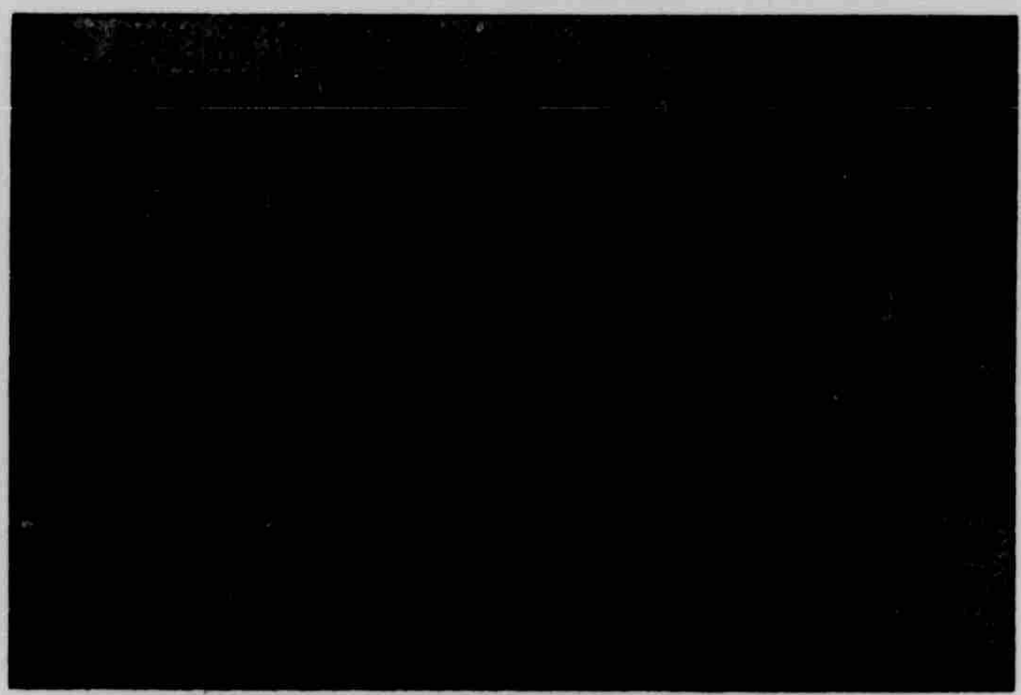
General Mining & Finance Corporation Ltd., Johannesburg, Republic of South Africa, reports the continuance of a steady demand for Crocidolite (Blue) and Chrysotile asbestos. The mines of Griqualand Exploration & Finance Company Ltd. in the Kuruman area of the Northern Cape attained considerable increases in production and sales in 1970 and a further rise in the sales of Blue asbestos is expected for 1971. Extensions and improvements to milling capacity are being continued and shaft sinking for the development of new asbestos deposits is in progress. Msauli Asbes

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Ltd. is steadily improving production, sales and working profits at its property situated 15 miles south of Barberton in the Eastern Transvaal. For the year ended June 30, 1971, the Msauli Mine produced 39,504 tons of fiber and sales value totaled R3,389,851.

ABITIBI OREBODY VALUABLE & VIABLE

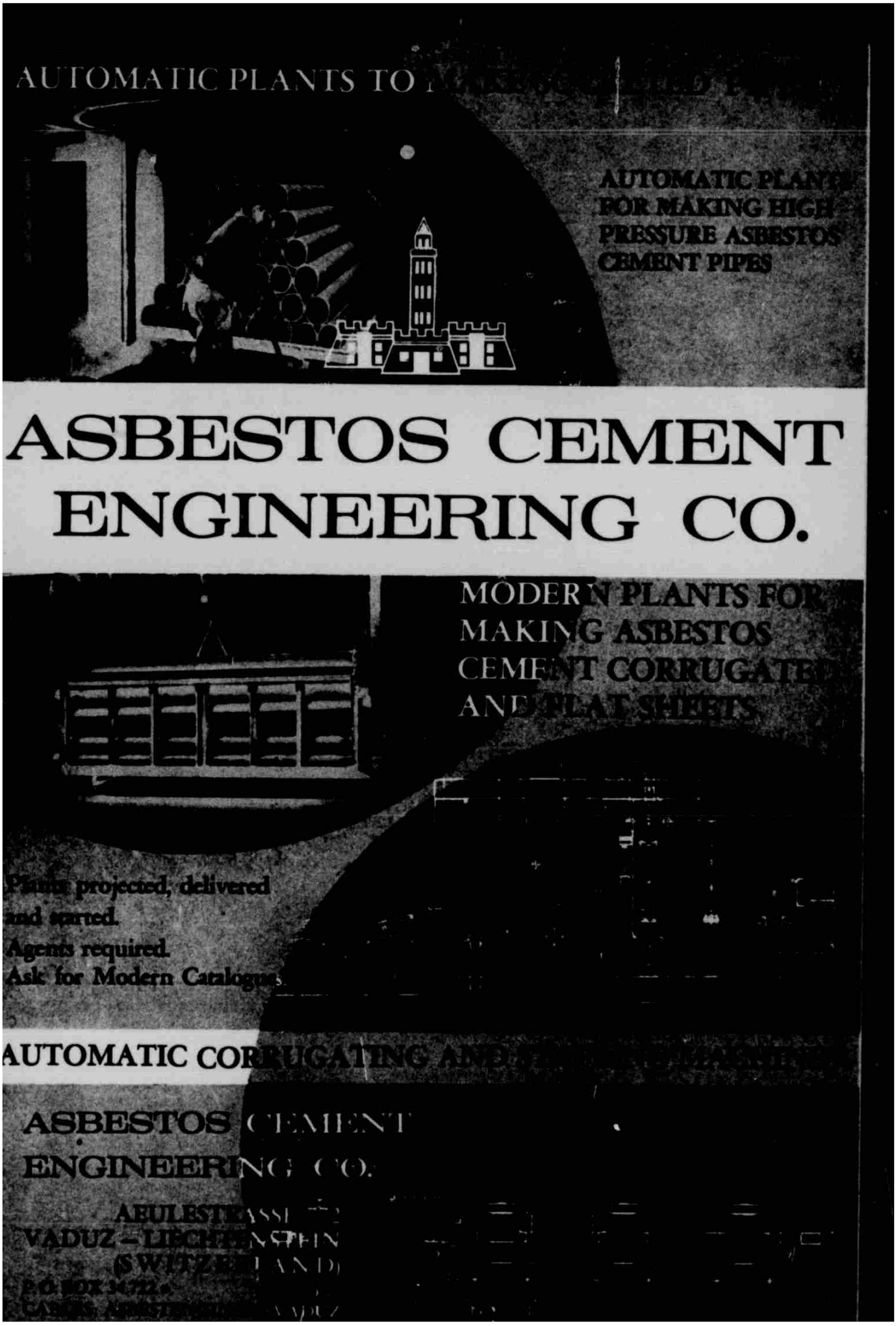
Kilborn Engineering Ltd., Toronto, Canada, submitted a Feasibility Report in September to **Abitibi Asbestos Mining Company Ltd.** giving its findings resulting from an extensive study of Abitibi's asbestos project located 52.5 miles north of Amos, Quebec.

Sufficient exploration work has been conducted on the property to delineate a minimum of 100 million tons of asbestos ore. A greater volume of ore may be anticipated at depth as drilling results indicate the asbestos zone to be open downslope, below the 850 feet vertical depth, for almost the entire length of the deposit. Test data indicates the fiber is of excellent quality, it is reasonably uniformly dispersed throughout the orebody and it can be produced in groups 4, 5 and 6. The overall average recovery has been calculated at 4% with an ore value in situ of $7.52 per ton. With the incorporation of a rock rejection circuit and a rejection of approximately 25%, the mill feed is beneficiated to 5.2%, with an anticipated fiber recovery of 155,000 tons per year based on a 4 million ton per year mining operation. In order to bring the property into operation as quickly as possible and with a minimum of initial capital expenditure, it is recommended that overburden removal be undertaken in stages, with the initial excavation exposing a portion of the orebody sufficiently large to accommodate a two-year mining and milling operation. The estimated operating cost is $2.83 per ton of ore mined. Based on a daily milling rate of 13,000 tons, present reserves are sufficient for a mine life of 25 years. Total cost to bring the project into production is $60,000,000.

Abitibi directors are examining methods of financing to bring the project into production and as an initial step are negotiating for interim financing to permit the early construction of a pilot plant.

Abitibi Asbestos is also undertaking a limited amount of outside exploration. Following exploration, geophysical work and rock trenching at an optioned asbestos property located near Timmins, Ontario, a diamond drilling program is being planned to further assess the potential of the property. Further afield, Abitibi has made application for mineral prospecting warrants on three blocks located on the South Island of New Zealand to cover favorable geophysical conditions for asbestos adjacent to the Kennecott holdings. Prospecting and exploration are also being undertaken by Abitibi on a few base metals prospects. [All quoted prices are 1971 prices and all values are in Canadian funds.]

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BIRTHDAY GREETINGS TO . . .

Faustin J. Solon, Jr., Vice President-Corporate Relations, Johns-Manville Corporation, New York City, December 18.

George J. Pecaro, Chairman of the Board, The Flintkote Company, White Plains, New York, December 20.

Harry C. Redstone, Executive Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.

Leland M. White, Departmental Vice President-Research, Uniroyal, Inc., New York City, December 21.

James H. Binns, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 23.

Donald G. Hamme, Director of Research, National Gypsum Company, Research Center, Tonawanda, New York, December 24.

J. E. Hesse, Vice President-Production & Engineering, Johns-Manville Corporation, Manville, New Jersey, December 25.

John Clarke Dempsey, President, Armor Products, Inc., New York City, December 27.

J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.

M. J. Warnock, Chairman of the Board, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.

F. P. Parkes, Chairman, Small and Parkes Ltd., Hendham Vale Works, Manchester, England, December 29.

W. Lyall, Mill Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon T., Canada, December 30.

Robert G. Lillibridge, Director of Research & Engineering Planning-Panacon, Philip Carey Company, Cincinnati, Ohio, December 31.

Bernard H. Wuennemann, Vice President-Controller, Philip Carey Company, Cincinnati, Ohio, December 31.

John E. Burke, President & General Manager, Sturtevant Mill Company, Dorchester, Massachusetts, January 1.

John L. Cole, Works Superintendent, Wunderlich Ltd., Sydney, N.S.W., Australia, January 1.

C. R. Harris, Project Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, Canada, January 1.

Noel W. Hendry, General Sales Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, Canada, January 2.

Octave Mousseau, Vice President & Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, January 3.

E. M. Fenner, in charge of Environmental Control, Johns-Manville Corporation, New York City, January 4.

Lawrence B. Row, Corporate Director of Management Services, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, January 7.

Charles E. Tennesson, Jr., President & Chief Executive Officer, Panacon Corporation, Cincinnati, Ohio, January 8.

Andrew J. Wallner, Director of Traffic, Johns-Manville Corporation, New York City, January 10.

Roger Lewis, Chairman, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, January 11.

Alexander Smith, General Sales Manager-Asbestos, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, January 13.

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NOTES FROM 1970 ANNUAL REPORTS

REPUBLIC OF CYPRUS, MINES DEPARTMENT

The quantity of mineral products exported during 1970 from the Republic of Cyprus amounted to 1,049,538 short tons, valued at £14,007,661. Exports of mineral products represented about 35.2% of the total value of domestic exports compared with 33% in 1969, 35% in 1968, 33% in 1967 and 45% in 1966.

Direct revenue from mining operations amounted to £335,875, although the mining industry's main contribution is in the form of taxation on company profits. Estimated total expenditure by major producers during 1970 reached in excess of £13,150,918, of which over £10,673,840 was spent in Cyprus for the purchase of supplies and the payment of taxes, wages, royalties, rents, etc.

Mining rents and royalties yielded £324,155 (a 3% of value royalty is paid for the mining of asbestos). A total of 126 permits were in force at the end of the year and covered an area of 179.08 square miles. Five of the permits were for the prospecting of asbestos and covered five square miles (the same as in 1969).

Safety & Industrial Health

In addition to inspecting properties, issuing permits, etc., and offering technical assistance to prospectors, the Mines Department is responsible for improving safety and health conditions for those engaged in the mining industry in Cyprus. The Senior Mines Officer and his staff have been sampling dust at the mines and crushing plants and at major quarries on the island, working in close cooperation with the Medical Board and others responsible for the implementation of the Pneumoconiosis Prevention Regulations of 1961 and the Medical Arrangements Regulations of 1961.

Cytechno Ltd.

During 1970, no exploration work was carried out pending the decision of the Council of Ministers as to whether or not to extend the previously-issued prospecting permits. Nevertheless, Cytechno signed an agreement with an overseas company that has at its disposal the necessary technical knowhow and money for a proposed project from exploration to the production stage.

Cyprus Asbestos Mines Ltd.

No prospecting was done by Cyprus Asbestos Mines as the known ore reserves are estimated to last for many years to come. Operations continued smoothly throughout the year and there was a sufficient number of unskilled laborers available to meet the needs of the mining firm.

During the year, 4,218,423 tons of rock were quarried compared with 4,452,599 tons in 1969. Two mills were in operation that treated 1,835,310 tons of raw material and produced 15,609 tons of fiber of

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long grades and 12,645 tons of fiber of the shorter grades. Held in stock at year-end were 4,126 tons of long-grade fiber and 3,548 tons of short-grade fiber. Shipments of asbestos fiber totaled 26,059 tons, valued at £1,293,138 (Grade 3S, 14,576 tons, £780,091; Grade HSH, 11,427 tons, £512,107; and 51 tons of Grade 6F and 5 tons of Grade P50 with a combined total value of £940). Expenditures on plant machinery and equipment amounted to £145,216. The company's estimated total expense for 1970 reached £1,305,519, of which £1,189,849 was spent in Cyprus.

The asbestos-cement factory at Moni utilized 206 tons of asbestos fiber and manufactured 74.2 tons of flat sheets, 1,269.3 tons of corrugated sheets, and 257.4 tons of moulded goods. Sales of manufactured asbestos-based products totaled £2,430,105 for 69.1 tons of flat sheets, £37,925,367 for 1,138.2 tons of corrugated sheets, and £16,236,636 for 248.6 tons of moulded goods.

ASTM STANDARDS

C391-71—Specification for Amosite Asbestos Thermal Insulation for Pipes. [Revision of Standard; Effective June 21, 1971; Reference Part 14; $1.25]

D2985-71T—Method of Test for Color of Asbestos. [New Tentative; Effective July 5, 1971; Reference Part 25; $1.25]

D123-71—Definition of Terms Relating to Textile Materials. [Revision of Standard; Effective August 31, 1971; Reference Parts 24 and 25; $1.25]

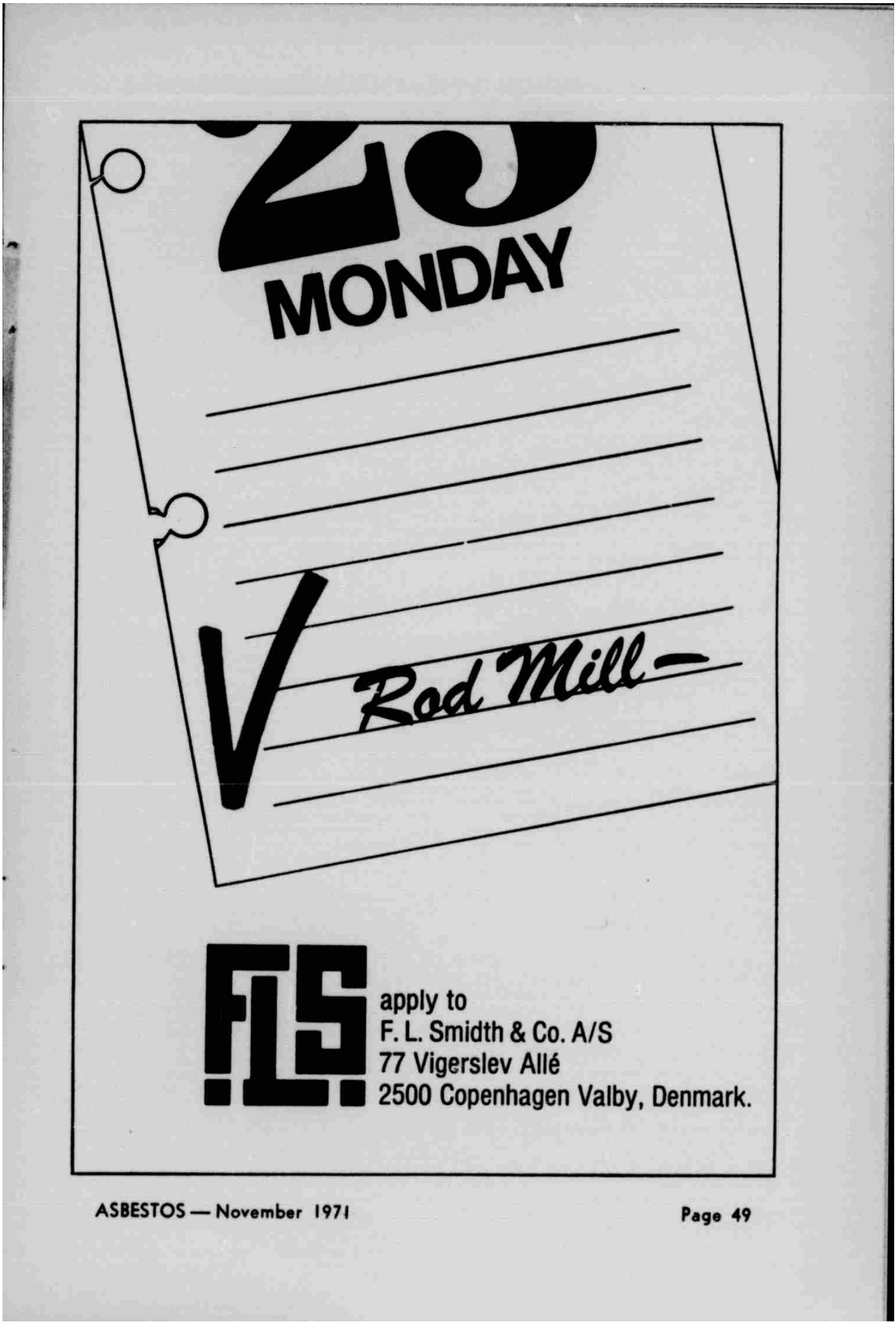
Part 16—Structural Sandwich Constructions; Wood; Adhesives. [Publication Code Number 1-016071-10; 1971 Book of ASTM Standards; 925 pages; 164 Standards; Hard Cover; $30.00]

Part 26—Plastics, Specifications; Methods of Testing Pipe, Film, Reinforced and Cellular Plastics; Fiber Composites. [Publication Code Number 01-026071-19; 1971 Book of ASTM Standards; 1074 pages; 161 Standards; Hard Cover; $32.00]

Part 29—Electrical Insulating Materials. [Publication Code Number 01-029071-21; 1971 Book of ASTM Standards; 1252 pages; 208 Standards; Hard Cover; $40.00]

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

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ASBESTOS STOCK QUOTATIONS

CLOSE—OCTOBER 26, 1971

Abitibi Asbestos	*$2.15	Gulf & Western	26⅛
Advocate Mines	*$1.71	G&W (pfd 1.75)	88
Allied Mining	*$2.80	G&W (pfd 3.50)	112
Asarco	18¾	G&W (pfd 3.87)	58⅛
Armstrong Cork	40¼	G&W (pfd 5.75)	67⅝
Armst Cork (pfd 3.75)	55½	Illinois Central	33½
Asbestos Corporation	*$26.375	Ill. Central (pfd 3.50)	60½
Bendix	37	Johns-Manville	42⅛
Bendix (pfd 3)	57¼	Maremont	26¾
Carlisle	17⅞	National Gypsum	21⅛
Cassiar Asbestos	*$18.00	Natl Gypsum (pfd 4.50)	72
Cerro Corporation	18⅜	Pacific	*$1.25
Certain-teed	41	Panacon	3¾
C-teed (pfd .90)	43	Pathfinder	*$87.00
Conwest	*$7.00	Porter (pfd 5.50)	70
Flintkote	30⅝	Raybestos-Manhattan	30
F-kote (pfd-A 4.50)	85	Royal Industries	11⅛
F-kote (pfd-B 2.25)	41	Unarco	14¼
GAF Corporation	20⅝	Union Carbide	40¼
GAF (pfd 1.20)	26⅞	Uniroyal	18⅝
Garlock	19½	Uniroyal (pfd 8)	106
Grace	28¾	United Asbestos	4-1/16

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

INVESTMENT/TRADE OPPORTUNITIES

Canada—manufacturing licenses sought by 125 Manitoba-based firms for a wide range of products; contact J. L. McMurtrie, Department of Industry & Commerce, 401 York Avenue, Winnipeg, Manitoba.

Mauritania—"Mauritania's Mining Possibilities" contains a summary of geological exploration, mining activity and information on ore deposits; Government has liberal policy toward investments; write to Direction des Mines, Ministere de l'Industrialisation et des Mines, B P. 199, Nouakchott.

Nigeria—importer-distributor-retailer interested in agency agreements for building materials and for concrete pipe, precast concrete products and prestressed concrete materials for road construction; contact The White House Products Ltd., 388 Herbert Macaulay Street, P.M.B. 1043, Yaba, Lagos.

Switzerland—agent wishes agency agreement for all kinds of industrial processes, and for measuring and controlling instruments; contact Mactronics SA, Via Sorengo 6, 6900 Lugano

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MEN ON THE MOVE

CERTAIN-TEED PRODUCTS CORPORATION

Franklin R. Winnert, formerly Executive Vice President of Certain-teed Saint Gobain Insulation Corporation, has been named President of the Shelter Materials Group. He will report to the preceding Group President, **Byron C. Radaker,** who is now Senior Vice President of Certain-teed Products Corporation. Prior to joining CSG in 1970, Mr. Winnert had been associated with Peckham Industries, Inc., and with Owens-Corning Fiberglas Corporation.

JOHNS-MANVILLE CORPORATION

E. Paul Burke has been named to the newly-created position of Vice President for Transportation, responsible for administration of the company's Traffic, Aviation and Physical Distribution Departments. He is former President and Chief Executive Officer of Frontier Airlines. . . . **Michael A. Tappin** is now Director of Labor Relations and a Vice President of J-M Products Corporation. Prior to joining J-M in May of this year, he was employed by General Cable Corporation and from 1954 to 1958 was with General Electric Company. . . . **Morris C. Lipsman** was appointed Director of Venture Management and a Vice President of J-M Sales Corporation. He started with J-M last year as Manager of Development Analysis & Evaluation. . . . **E. D. Cox,** formerly Manager of Licensing in the Patent Department, was named Director of Licensing. He joined J-M in 1944 as Staff Manager in the Power Products Department.

NICOLET INDUSTRIES, INC.

Louis J. Melillo is the new Plant Manager of Nicolet's facility at Ambler, Pennsylvania. He had been associated with the company in the past when he was Plant Manager for the then Nicolet-owned Modiglass Fibers.

RAYBESTOS-MANHATTAN, INC.

Dale J. Delmege was named Director of Product Planning and **Ronald P. Armonath** was appointed Marketing Research Manager. Both of these gentlemen will report to **Philip G. Dolan,** Director of Marketing Services. Mr. Delmege has a broad background in sales and marketing stemming from his previous business endeavors at McGraw-Edison and at Black & Decker. Mr. Armonath joined R/M in 1968 and most recently served as a Market Analyst for the Equipment Sales Division.

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BOOKS/PAPERS/ARTICLES/REPORTS

Ore Reserve Estimation and Grade Control—Publication of papers presented at the 1967 Conference at L'Esterel, Quebec; papers represent a first effort by the mining industry to weigh and compare various techniques and practices, particularly the present use and the potential application of computers to ore reserve calculations. [Special Volume 9; 320 pages; Canadian Institute of Mining and Metallurgy, 1117 Ste. Catherine Street West, Montreal 110, Quebec; $10.00]

Papers & Discussions, 1968-1969, Association of Mine Managers of South Africa—This annual volume contains chapters on blasting techniques and explosives, development, mine planning and layout, mine water and pumping, reclamation, shafts and shaft sinking, stoping, supporting of mine excavations, underground fires, ventilation, etc. [867 pages, hard cover, illustrated; published by the Chamber of Mines of South Africa, Johannesburg]

Mine Ventilation & Yugoslavia's Mineral Economy—Two articles which appeared in Yugoslavian publications last year that may prove of interest are: Safety and Economic Aspects of Ventilation of Mines with Several Principal Fans, by V. Jovicic (Safety in Mines, April 1970), and Yugoslavia's Mineral Economy in the Scope of International Distribution of Work, by Dr. V. Milutinovic & Dr. D. Milovanovic (Bulletin of Mines, April 1970). In the latter article, the authors advise that on the whole there has been little exploration into the country's non-metallic mineral resources (including asbestos) although the prospects are favorable. For the year 1968, Yugoslavia's share of total world production of asbestos was 0.30%. [Extensive English summaries are available, on loan, from ASBESTOS; copies of the complete articles, written in Yugoslavian, are available from Rudarski Institute, Postanski Pregradak 116, 11081 Beograd-Zemun, Yugoslavia]

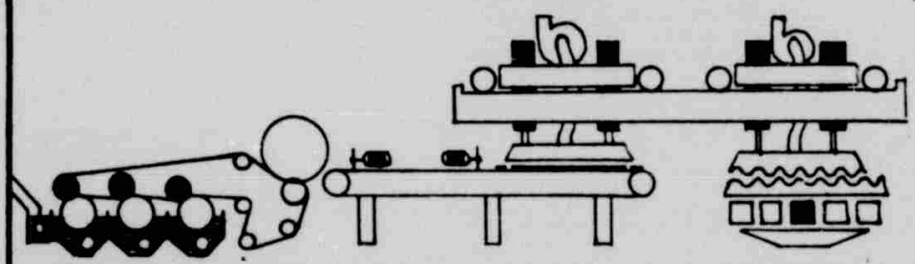
Papers Presented at IMM Meeting—Three papers submitted for discussion at the October 1971 General Meeting of The Institution of Mining and Metallurgy: Logging the Mechanical Character of Rock, by Dr. J. A. Franklin; Selection of Open-Pit Excavating and Loading Equipment, by T. Atkinson; and Design of Mills for Developing Countries, by J. C. Loretto. [Contact M. J. Jones, Editor, Transactions, IMM, 44 Portland Place, London W1N 4BR, England]

Heat-Resistant Glue—Combining phenol-silicon-organic resin B-1, asbestos and polyorganoborosiloxane, Soviet scientists have developed a glue that binds in temperatures up to 1200°C and that can be used on heat-resistant and non-metallic materials. [Report AD 697 551; National Insulation Contractors Association, 8226 Fenton Street, Silver Spring, Maryland 20910; $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.

Australian 293,948—To improve friction compositions to be used in disc brakes or the like, there is incorporated into the usual mix of asbestos, silica and other additives and modifiers both sulfur and copper-powder; upon curing, a copper sulfide binder phase is formed by reaction of the sulfur with the copper powder; F. Wood & E. Clark; assigned to Ferodo Ltd., September 4, 1969; 11 pages.

British 1,236,218—In this procedure for manufacturing composite friction elements from asbestos, calcined kyanite, white cast-iron particles and other usual ingredients, the naphtha solvent is left in the mixture as it is formed into elements in a stamping die so as to render the thermosetting binder plastic and mobile; the usual baking operation to remove the solvent is eliminated; A. M. Griffith; assigned to Abex Corporation, June 23, 1971; 6 pages.

British 1,239,291—A non-segregating composition for coating auto underbodies or the like comprises (1) 30-70% of oxidized asphalt, (2) 15-40% of Chrysotile asbestos floats, (3) 5-30% of a petrolatum oxidate, (4) 3-6% of organic-modified bentonite and (5) an optimum amount of a volatile hydrocarbon solvent; assigned to Ashland Oil, Inc., July 14, 1971; 8 pages.

German 1,760,686—Recovery of short fiber asbestos was not efficient in earlier years; tailings which were rejected during those years may still contain an important percentage of short P. V. Group 6 fiber; frozen fiber can be released by processing tailings through Hazemag Rapid Dryer followed by harsh impacting; assigned to Hazemag mbH & Canadian Johns-Manville Co. Ltd., July 8, 1971; 4 pages. [This is the same process covered under U.S. Patent 3,580,537; listed in August 1971 ASBESTOS.]

U.S. 3,591,447—A low-density cork-asbestos felt consists of first and second webs of dry, carded spinning grade asbestos between which there is a discontinuous layer of resin-coated granulated cork particles with the fibers entangled in the cork; D. L. Juhl; assigned to Raybestos-Manhattan, Inc., July 6, 1971; 3 pages.

U.S. 3,591,545—A paint for forming flame-retardant, tough coatings consists of a blend of asbestos, ground mica, perchloroethylene, vinyl-chloride polymers and other usual ingredients; K. O. Anderson, July 6, 1971; 2 pages.

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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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CALENDAR OF EVENTS

Consumerism Seminar—a briefing on consumerism for manufacturing executives and other home improvement industry leaders; National Home Improvement Council; Mayflower Hotel, Washington, D.C.; *December 1.*

ASTM Committee Week & Exposition—includes meetings of Committees D-4 on Road and Paving Materials, E-5 on Fire Tests of Materials and Construction, E-6 on Performance of Building Constructions, and G-3 on Deterioration of Nonmetallic Materials; Americana Hotel, Bal Harbour, Florida; *December 5-10.*

Environmental Testing Equipment Exhibition—market research has identified over 100 items of U.S. equipment as having good market potential in the United Kingdom; London Trade Center, London, England; *December 6-10.*

Vacuum & Cryogenic Equipment Exhibition—American firms are invited to participate; U.S. Trade Center, Frankfurt, Germany; *December 6-10.*

Air & Water Pollution Control Show & Seminar—anti-pollution equipment produced in Japan is not being made in sufficient quantity or variety to meet the demand; Tokyo Trade Center Exhibition, Tokyo, Japan; *December 6-11.*

Acoustic Emission Symposium—American Society for Testing and Materials; Americana Hotel, Bal Harbour, Florida; *December 7-8.*

New Materials in Concrete Construction Conference—University of Illinois, Chicago, Illinois; *December 15-17.*

Home Improvement & Remodeling Exposition—National Remodelers Association; Fontainebleau Hotel, Miami Beach, Florida; *January 6-8.*

Sampling of Mineralogical & Geological Materials—joint meeting between the Institution of Mining and Metallurgy and the Applied Mineralogy and Geochemistry Groups of the Mineralogical Society; Imperial College, London, England; *January 7.*

ASTM Committee E-18 on Sensory Evaluation of Materials & Products—Schrafft's Motor Inn, Ft. Lauderdale, Florida; *January 13-14.*

ASTM Committee C-24 on Building Joint Sealants—Statler Hilton Inn, Raleigh, North Carolina; *January 23-25.*

National Plant Engineering & Maintenance Show & Conference—Convention Center, Philadelphia, Pennsylvania; *January 24-27.*

Measurement Systems Engineering Seminar—Arizona State University; Tempe, Arizona; *January 24-28.*

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STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

(Act of August 12, 1970; Section 3685, Title 39, United States Code)

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10. Not Applicable. 11. Extent and Nature of Circulation: Average No. Copies Each Issue During Preceding 12 Months—A. Total No. Copies Printed, 1500; B. Paid Circulation, (1) Not Applicable, (2) Mail Subscriptions, 955; C. Total Paid Circulation, 955; D. Free Distribution by Mail, Carrier or Other Means, (1) Samples, Complimentary and Other Free Copies, 269, (2) Not Applicable; E. Total Distribution (Sum of C and D), 1224; F. Office Use, Left-Over, Unaccounted, Spoiled After Printing, 276; G. Total (Sum of E and F—should equal net press run shown in A), 1500. Actual Number of Copies of Single Issue Published Nearest to Filing Date—A. Total No. Copies Printed, 1500; B. Paid Circulation, (1) Not Applicable, (2) Mail Subscriptions, 1003; C. Total Paid Circulation, 1003; D. Free Distribution by Mail, Carrier or Other Means, (1) Samples, Complimentary and Other Free Copies, 250, (2) Not Applicable; E. Total Distribution (Sum of C and D), 1253; F. Office Use, Left-Over, Unaccounted Spoiled After Printing, 247; G. Total (Sum of E and F—should equal net press run shown in A), 1500.

I certify that the statements made by me above are correct and complete: signed, D. M. Fagan, Editor.

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(November 1921 ASBESTOS)

New Advertisers:

Ernst Gessner, Act.=Ges.

The Industrial Digest

The lead article in this issue was titled "Metallic Asbestos Gaskets" and was written by W. W. McCord, Production Manager, Gasket Division, McCord Mfg. Co. It is particularly interesting to note the continuing growth and success of this pioneer company in the automotive and allied fields.

Also presented was a short biographical sketch of Christopher Huber, one of the organizers of the Fibre Spinning Co., later incorporated as Asbestos Fibre Spinning Co., North Wales, Pa., one of the earlier producers of asbestos textiles in this country. Prior to entering the asbestos textile business, Mr. Huber was engaged in the manufacture of lenses for eyeglasses and was credited with having ground, in 1882, the first bifocal lens ever made.

It was reported that W. J. Woolsey, formerly connected with Asbestos Corporation of Canada, at Thetford Mines, had left for California to undertake construction of an asbestos mill for the Pacific Asbestos Corporation, Calaveras County.

The Mellon Institute of Industrial Research, University of Pittsburgh, announced the appointment of Edward R. Weidlein to the post of Director. Dr. Weidlein was well known to readers of ASBESTOS because of his extensive research work in the field of heat insulating materials.

Next Issue . . . The Year in Review

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Two good starts...

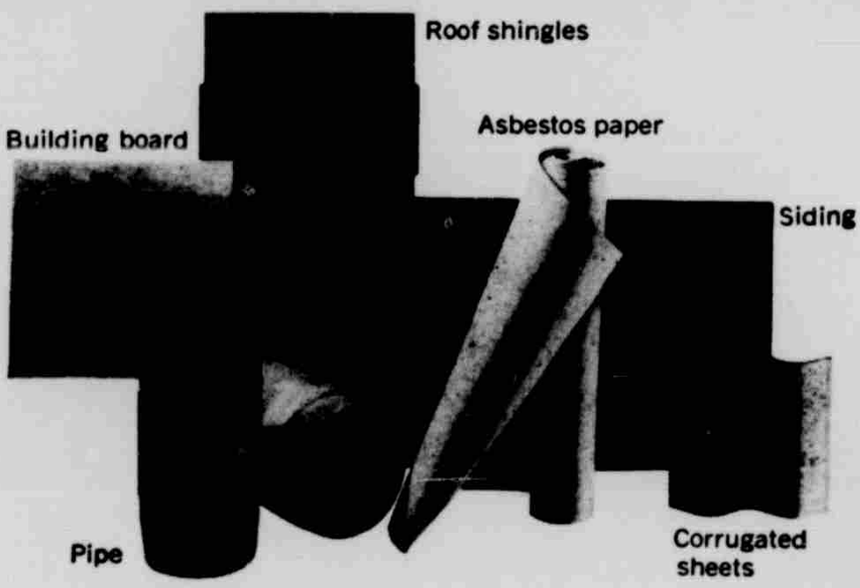
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