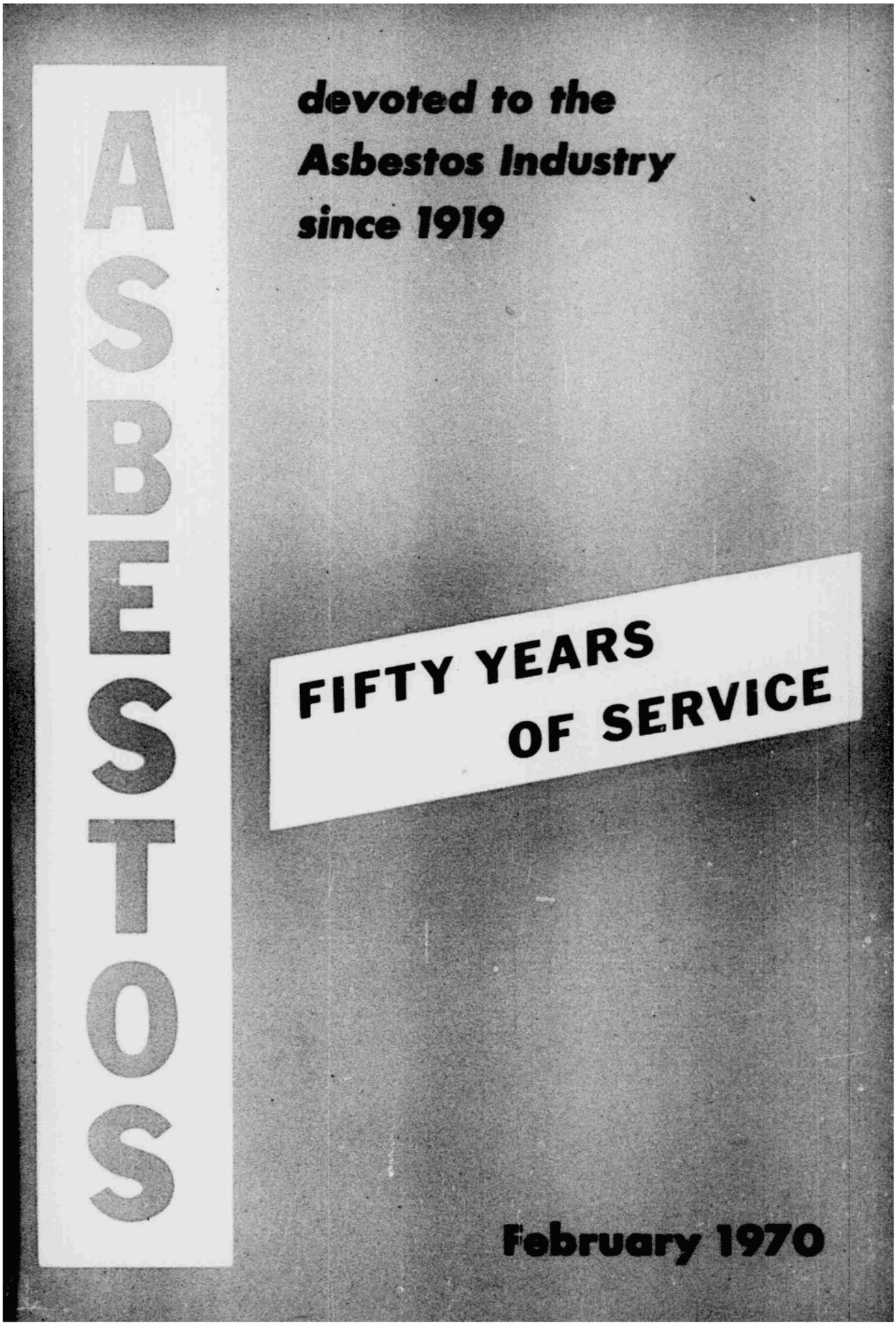
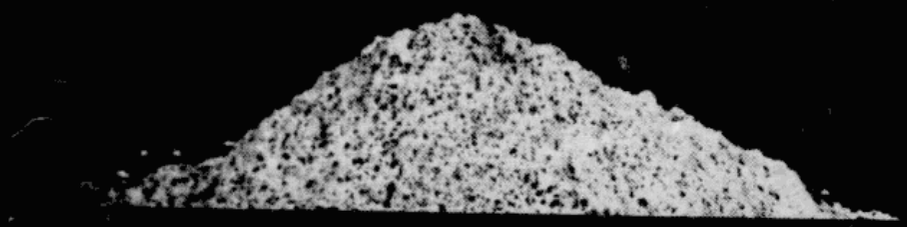


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AIR FORCE STUDIES ASBESTOS REINFORCEMENTS

Much of the literature concerning the use of whiskers as reinforcements in composites has been concerned with the use of man-made whiskers or fibers such as those of glass, graphite, silicon carbide and such even more exotic substances as sapphire. In view of the very attractive potential of asbestos fibers as reinforcements (see ASBESTOS, August and September, 1968) it is encouraging to note they have not been overlooked in the search for low-cost, high-performance, fibrous reinforcements.

The Air Force Materials Laboratory (AFML) at Wright-Patterson Air Force Base, Ohio, has conducted some very interesting studies in an effort to determine certain basic facts regarding the use of asbestos fiber as a reinforcement in various asbestos-plastic composites and, concurrently, the Narmco Research and Development Division of Whittaker Corporation, San Diego, California, conducted complementary studies along similar lines, under contract to the Air Force.

Complete data on these studies including materials investigated, methods of test and test results are contained in two papers. Technical Report AFML-TR-67-389, "Evaluation of High-Temperature Resins in Asbestos Fiber Reinforced Laminates," details the research conducted by the Whittaker Corporation and presents the results of this effort. It also contains a bibliography considered to be the most complete of its kind yet compiled. "Unidirectional Asbestos Reinforced Plastics," by Theodore J. Reinhart, Jr., of the AFML staff, states the reasons for the Air Force's interest in asbestos as a reinforcement, indicates the areas in which it was thought research should be concentrated and summarizes the results of such research including that conducted at AFML and at Whittaker Corporation. It points up problems which were encountered and the interim solutions to such problems which led to production, in the laboratories, of asbestos-reinforced plastics which exhibited physical properties far in excess of those attained by any commercially-produced materials of similar composition available at present.

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After careful study and some preliminary experiments with a number of different resin systems and reinforcements of commercially available asbestos mat types, it became apparent that certain characteristics of the resin systems, the reinforcements and the processing methods were all contributing to the failure to achieve strength levels appreciably higher than those obtainable in more or less ordinary commercial products.

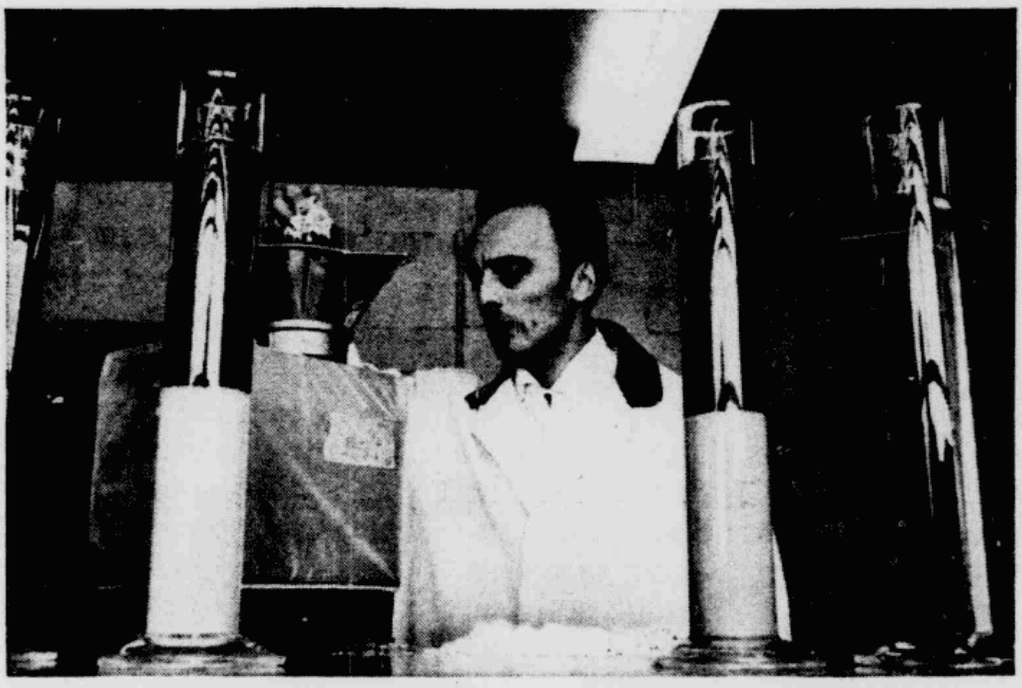
The polyimide resins first selected for investigation did not seem to adequately wet the asbestos and, during curing, developed volatiles resulting in voids in the laminates. Later studies showed that asbestos fibers in the highly-opened state are very sensitive to buckling and voids in the matrix which leave fibers unsupported by the resin result in inferior flexural, compressive and fatigue strength in the laminate. It also became apparent that asbestos available in commercial mat forms had neither sufficient fiber length nor proper fiber orientation to offer any real promise of attaining the strength levels being sought in the composite.

Investigation indicated that dilute methyl ethyl ketone solutions of epoxy resins which do not produce volatiles and consequent voids provided excellent impregnation of the asbestos fibers and further experiments were made using such resins.

Composite theory and experiments pointed to the necessity of using the longest available fibers opened to a degree which would permit consistent, unidirectional orientation of the fibers with a reasonable degree of fiber overlap. On the scores of fiber length and superior physical properties, Crocidolite was chosen as the most promising asbestos for further investigation. The oriented fiber mats finally used were of two types.

The first, made in the laboratory, was obtained by passing fiber bundles from Crocidolite crude through a pair of rubber rolls under controlled pressure, the fiber bundles being at right angles to the roll axes. While this processing did not fully open the fiber bundles, it did produce a good degree of opening into a unidirectional fiber array with a minimum amount of damage to the fibers. The opened fibers were laid parallel on a Mylar film coated with a controlled amount of epoxy resin, forming a tape. This was covered

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with another Mylar film precoated with the same resin to complete impregnation of the asbestos.

This type mat, impregnated with the methyl ethyl ketone solutions of epoxy resins and molded at 5000 psi resulted in a laminate having a flexural strength on the order of 100,000 psi and compressive strength in the range of 90,000 psi. These were the best results obtained during the experiments in question and indicated clearly that asbestos can indeed be successfully used as a high strength reinforcement.

The second type mat was obtained from Cape Insulation Limited on special order and was subjected to similar processing into a laminate. This mat was a Noramite parallel-fiber felt. A member of the Cape Group had, some time previously, prepared a mat of oriented Crocidolite fiber, impregnated it with a phenolic resin and molded it into a unidirectionally reinforced composite which showed very attractive physical properties. The mat actually consisted of a series of low-twist, short-fiber yarns, laid side-by-side with a 5% silica sol binder to form a felt. This material, impregnated with the epoxy resin and molded at 3000 psi, showed an ultimate tensile strength of 58,000 psi, flexural strength of over 90,000 psi and compressive strength of over 60,000 psi. While these properties are not so high as those of the laminates using the specially-opened fibers as a reinforcement, they are more than double those of laminates based on commercially available random fiber mats and indicate the very promising possibility of producing high-strength laminates using a material of this type as the reinforcement. The attraction lies in the fact that reinforcements of this type could be manufactured within the current state of the art at costs considerably less than those of the more exotic whisker materials and further optimization of processing techniques might be expected to result in upgrading the performance of laminates based on such materials to the point where they would be even more attractive as structural materials.

In summary, the experiments showed that by utilizing the proper combinations of fiber length, fiber openness, fiber orientation, impregnation and laminate processing techniques, truly high-performance asbestos-reinforced laminates can be

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produced. The relatively low cost of asbestos and its attractive physical properties should warrant its serious consideration as a reinforcement in numerous applications for which short glass fibers and graphite fibers are now being considered.

To attain higher physical properties, further research will be required. Some of the areas which should be explored are:

(1) Determination of the effect of reactive surface finishes on asbestos fiber to increase the resin-asbestos bond strength and to improve wetting of the asbestos.

(2) Improved production methods for preparation of unidirectional asbestos mat prepreg materials.

(3) Studies leading to better understanding of the mechanics of short-fiber reinforced composites.

(4) Investigations into the effects of blending asbestos fibers with graphite, boron or glass fibers in composites.

PLANT ENGINEERING & MAINTENANCE SHOW & CONFERENCE will be held in Chicago, Illinois, April 27-30, 1970. The Show will take place at the International Amphitheatre and both the Amphitheatre and the Palmer House will accommodate the Conference.

AMERICAN MANAGEMENT ASSOCIATION'S 39th National Packaging Exposition will be held April 20-23, 1970, at the New York Coliseum. The Association's National Packaging Conference will take place at the Americana Hotel, New York City, on the same dates.

NBS CONFERENCE—The third annual National Conference of States on Building Codes and Standards will be held April 19-22, 1970, at the Midtown Holiday Inn, Wichita, Kansas. Advance registration, including the fee of $75.00, should be forwarded to the Executive Secretary, NCSBCS, Building 226, Room B226, National Bureau of Standards, Washington, D.C. 20234.

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Occupational/Industrial Health Efforts

BBA Group Limited has issued a most informative and interesting hard-bound book describing the activities of its "Industrial Health Unit" from 1959 through 1969. As well as offering an outline of the work accomplished during the past ten years, the book is also a dedication to the three gentlemen who enabled the material and moral foundations of the Unit to be laid — Sir William Fenton, Mr. Frank Pearson and Dr. C. G. Addingley.

The book relates that the Asbestosis Research Council was formed in 1957 by The Cape Asbestos Company Limited, Turner & Newall Limited and British Belting & Asbestos Limited (now BBA Group Limited). Subsequent to the formation of the Council, there was a feeling that early diagnosis of asbestosis might be possible by making use of lung function studies. These studies were to be made on site and would involve existing employees and all incoming new employees. This work, started in June 1960, was the first major undertaking by the Unit in the strict medical sense.

The Unit claims a number of "Firsts" including the use of lung function studies in the early diagnosis of asbestosis in the field, the development and practical use of the membrane filter for use in asbestos dust study, the use of phase microscopy for examining the membranes, the development of a slow-running personal sampler suitable for asbestos dust, the use of the Royco Particle Counter in the Asbestos Industry, and a method of processing tissue to enable asbestos fiber to be seen.

Chapters in this written history of the Unit cover the study and measurement of airborne asbestos dust, lung function studies, pathology and actiology and immunological investigations.

Trustees of the Western States Asbestos Health Plan (WSAHP) met in October, 1968, approved an "Occupational Health Program" and entered into an agreement with Dr. Irving R. Tabershaw, of Tabershaw-Cooper Associates, Berkeley, California, for implementation of the Program. The Board of Trustees of WSAHP includes representatives from both the Western States Conference of Asbestos

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Workers and the Associated Insulation Contractors of the Western States (AICWS).

Following a very extensive review of (1) the medical and industrial hygiene needs of the insulating industry in the Western States, (2) the geographical distribution of insulators and contractors in these States, (3) the current health and welfare plans and environmental control efforts, and (4) available medical and environmental resources, a regional occupational health program was suggested, with the objective of improving and coordinating efforts to control occupational disease and thereby lessen the human and economic effects of preventable illnesses in the insulating trades.

Among the recommendations, it was suggested that a permanent Medical Advisor be appointed to work with the Western Conference of Insulating Workers and AICWS to develop and carry out medical policies. The Medical Advisor would be responsible to the Trustees of the Western States Occupational Health Plan and would work with trustees of local health and welfare plans to improve and implement preventive health activities. The asbestos workers and contractors would support periodic physical examinations of all members. Abstracts of periodic examinations and duplicate chest films would be sent to the Medical Advisor for his central file. Literature concerning health education would be distributed. Each local area would be urged to form a health and safety committee, with labor and management representatives, to supervise local environmental controls. The Medical Advisor and his staff would prepare detailed industrial hygiene information and, in cooperation with local health and safety committees, would develop local educational and enforcement programs. Further, the Medical Advisor and his staff would provide liaison with national programs working toward improved occupational health for the industry.

ASTM COMMITTEE MEETINGS—Committee F-6 on Resilient Floor Coverings, Hotel New Yorker, New York City, April 13-15; and Committee F-3 on Gaskets, Dearborn Inn, Dearborn, Michigan, April 20-22.

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13th Casting of the Asbestos Story Ring To W. S. Cowell

Mr. W. S. (Bill) Cowell received the 13th casting of the Asbestos Story Ring at a dinner held in his honor, December 3, 1969, at the Ritz Carlton Hotel, Montreal.

All of the arrangements for the event were made by Mr. G. W. Smith, holder of Ring Casting Number 10 and Past President of Bell Asbestos Mines. Mr. Alfred Penhale, holder of Ring Casting Number 11 and Chairman of Asbestos Corporation, acted as the Master of Ceremonies and made many humorous remarks about Mr. Cowell's past and present activities.

While thanking Mr. Smith, Mr. Cowell mentioned that he had been associated with the asbestos products business for over 42 years, having joined the Canadian Raybestos Company in 1927. He is presently Chairman of Albion Asbestos Packings.

Those in attendance at the dinner, in addition to Mr. Smith and Mr. Penhale, were: Messrs. F. P. Smith, L. W. Bladon, J. P. Carrier, G. J. Cote, G. Barge, R. B. Todd and H. L. Falle of Bell Asbestos Mines; Mr. C. B. Brown of Turner-Newall (Overseas); Messrs. M. Carson and G. Jenkins of Asbestos Corporation; Dr. K. V. Lindell of Canadian Johns-Manville; Mr. M. J. Messel of Lake Asbestos of Quebec; Mr. S. Munro of Raybestos-Manhattan (Canada); Mr. W. D. Robb of Anchor Packing Company; Mr. J. M. Miller of Peat, Marwick, Mitchell & Company; and Messrs. N. Bain and D. Bain of Asbestos Erectors.

Our sincere congratulations to Mr. Cowell on having been selected as a recipient of the Asbestos Story Ring.

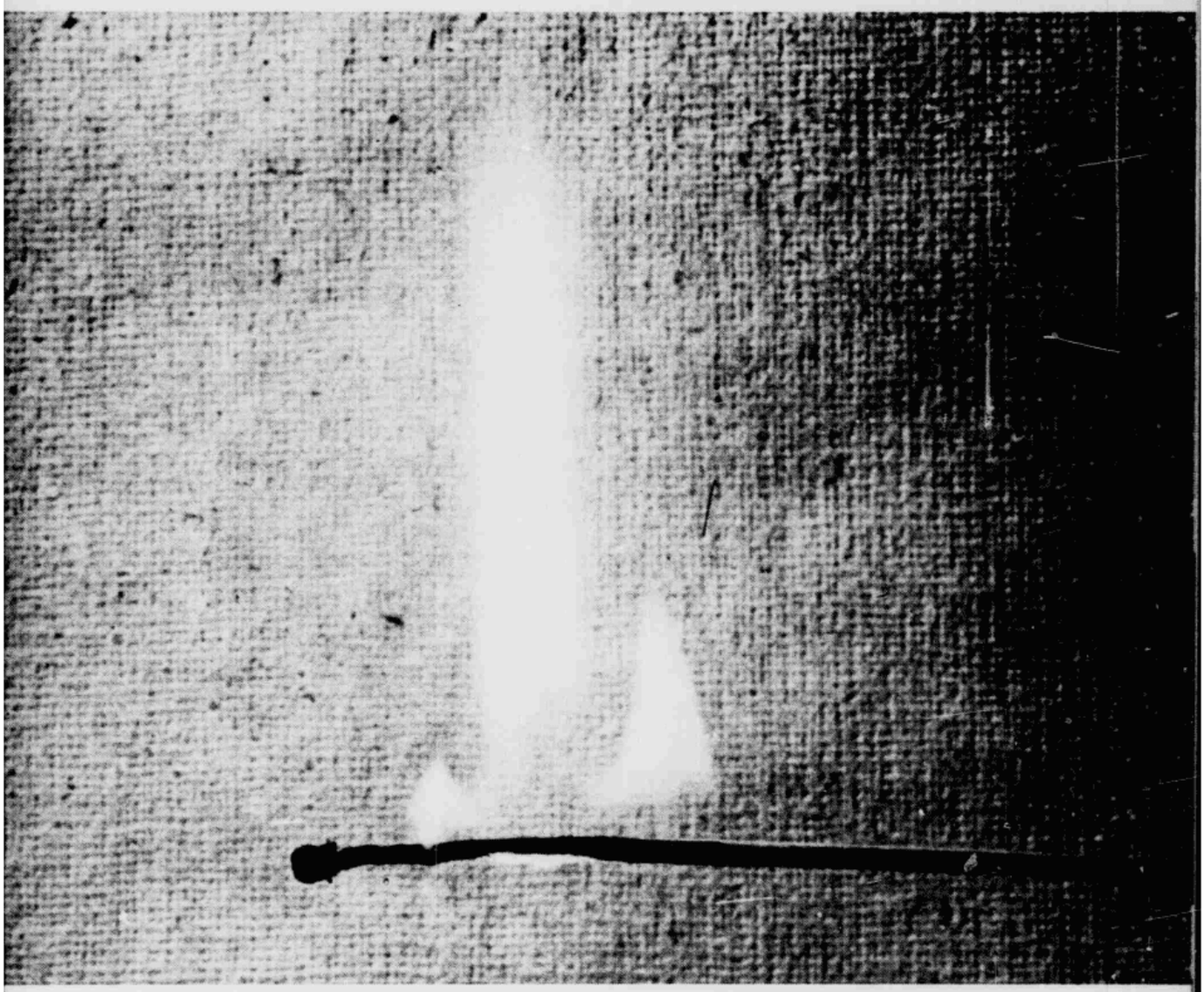
(Editor's Note: The October 1955 issue of ASBESTOS contains a complete explanation and description of the Asbestos Story Ring, including photographs.)

H. K. PORTER COMPANY, INC., has declared the regular quarterly dividend of $1.375 per share on the 5½% cumulative sinking fund preference stock. The dividend is payable January 30 to stockholders of record January 14.

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Expansion at King-Beaver Mine

Asbestos Corporation Limited has announced a major expansion of asbestos mining and milling facilities at its King-Beaver Mine, the largest of the company's three properties at Thetford Mines, Quebec, Canada.

Scheduled for completion in the Fall of 1970, the mine expansion will raise plant processing capability to 12,000 tons of ore per day — a 50% increase over the present-rated capacity. Estimated cost of the project is $4.5 million, with $3.5 million to be spent on plant expansion and $1 million to cover purchases of new mining equipment.

Mining and processing equipment at the King-Beaver Mine is currently operating at full capacity and construction of a new $2.2 million ore preparation and storage plant has just been completed.

Asbestos Corporation is also sinking a 1645-foot exploratory shaft into its Penhale orebody, three miles southwest of Thetford, with a view to developing the asbestos deposit as an underground mine. Cost of this project is $2.5 million.

TBA ASBESTOS TEXTILES—A radically-improved line of asbestos textiles has been announced by *Turner Brothers Asbestos Company Limited*, Rochdale, England. The company has developed and is now manufacturing the TBA "T" Range of textiles that act as dust-suppressants. A new and unique manufacturing process devised in TBA's Research and Development laboratories provides a new concept in asbestos textiles, making them cleaner and easier to use than heretofore but still retaining the outstanding properties and technical efficiency of asbestos. The new range comprises standard qualities of cloth for a variety of applications including insulation, protective clothing, fire blankets, filtration, welding screens, safety curtains, lamination and packing manufacture.

Field trials of the new textiles, on customers' premises and under service conditions, have demonstrated at least a five-fold reduction in dust emission when compared with other cloths made of asbestos.

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Asbestos down on the farm.

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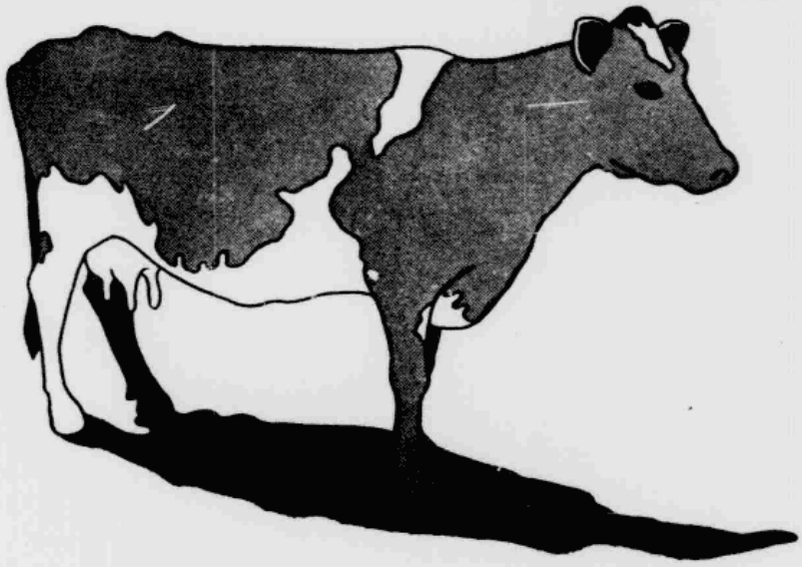
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Asbestos Wallpaper

Asahi Asbestos Company Limited and *Jujo Paper Manufacturing Company Limited,* both of Toyko, Japan, have jointly developed two new types of non-flammable asbestos paper—Aspaal "W" and Aspaal "M". Aspaal "W" is a wallpaper composed solely of asbestos fiber and an organic binder. Aspaal "M" is made of asbestos fiber and an organic binder plus pulp and is used as a roofing material, for wrapping and for other industrial applications.

The asbestos wallpaper is marketed under the tradename "Lily" and besides being non-flammable and non-smoking, it offers good insulating properties, corrosion and chemical resistance and is nonpermeable by water and paste. The dimensions of the paper are 910mm wide by O.3 mm thick by 9m in length.

(This new product is another development in the continual research for new and useful applications of asbestos fiber.)

MODEL X-250 EXPANSION JOINT made completely of high-temperature fabrics has been developed by *Johns-Manville Corporation.* Composed of tough, durable, lightweight, and rubberized asbestos-fabric laminates, the joint is recommended for service in duct systems handling gases to 250°F at low pressures. It is flexible, accommodating off-center as well as axial movement in minimum space, and is inexpensive to ship and to install. In addition, the joint is quiet in operation and does not transmit noise and vibration from one metal section to the adjoining one.

CERTAIN-TEED PRODUCTS CORPORATION has issued a new brochure (Form AP-19R-1/70) listing engineering classifications of *Fluid-Tite Asbestos-Cement Non-Pressure Sewer Pipe.* The booklet includes handy crushing tables based on the Marston formula and offers data concerning safe supporting strengths, pipe class selection and earth load tables. Certain-teed Sewer Pipe is manufactured in a full range of sizes from 4" to 24" in diameter

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MARKET CONDITIONS

General Business.

There are many signs that the economy is in a definite "cooling off" period. Auto manufacturers took advantage of the holiday breaks to cut back production and layoffs were made in mid-January to bring output into closer balance with new car sales. The rate of unemployment is inching higher and the index of industrial production has declined slightly for five months in a row. Housing starts continue to decline.

During 1970, five major industries — steel, automotive, railroads, trucking and construction — with a total of some 5 million workers, will enter into new union contract negotiations. Indications are that labor's demands will be the highest ever. With industry already in a profit squeeze, the bargaining will be hard but there is little doubt the unions will gain substantial increases leading, inevitably, to higher prices for the products and services of these industries. Wage patterns set in these industries will influence wage scales in other sectors of the economy so generally rising labor costs can be anticipated for 1970.

One factor contributing to inflation of prices in 1969 was the lack of any substantial increase in the productivity of labor. If, during 1970, productivity were to increase at the "normal" annual rate of 3%, upward pressures on prices would be appreciably relieved. In the "mass-production" industries, increased efficiency is being achieved through major capital expenditures for improvement in processes and manufacturing facilities. Railroads, truck lines and marine transportation companies are improving efficiency through increased use of "containerization" and long distance "piggy-back" hauling of trailers by the railroads.

The construction industry is faced with more formidable problems. Outmoded building codes and union resistance are limiting the use of advanced materials and methods of construction. The increased market for mobile homes and the success, in some areas, of homes built from pre-assembled modular units prove the economies of factory-produced structures vs. those constructed entirely on the job site. Hopefully, growing pressures for truly low-cost housing will

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permit full utilization of our abilities along this line in the near future.

The service industries, an ever-growing segment of the economy, involve numerous tasks not readily subject to a "mass-production" approach. Unfortunately, in such areas increased labor costs must be almost wholly reflected in higher prices.

Based on these considerations, price inflation seems certain to continue, albeit at a reduced rate compared to the over 5% increase in consumer prices experienced during 1969. Prospects for 1970 are for a slowing in general business during the first half followed by a renewed upsurge in the second half, with gradually rising prices all along the way.

THE FLINTKOTE COMPANY'S Flintite Pipe Plant, Ravenna, Ohio, hailed as the most modern asbestos-cement pipe plant in the world, depends on specially-designed autoclave cars to help keep processing lines moving smoothly. Made to Flintkote's specifications by *Black Diamond Enterprics, Inc.*, Bristol, Virginia, the fleet consists of units with wheels, trays without wheels, single deckers which can be converted into two-deckers with trays and many cars specially designed for autoclave use with sloping or rounded sides.

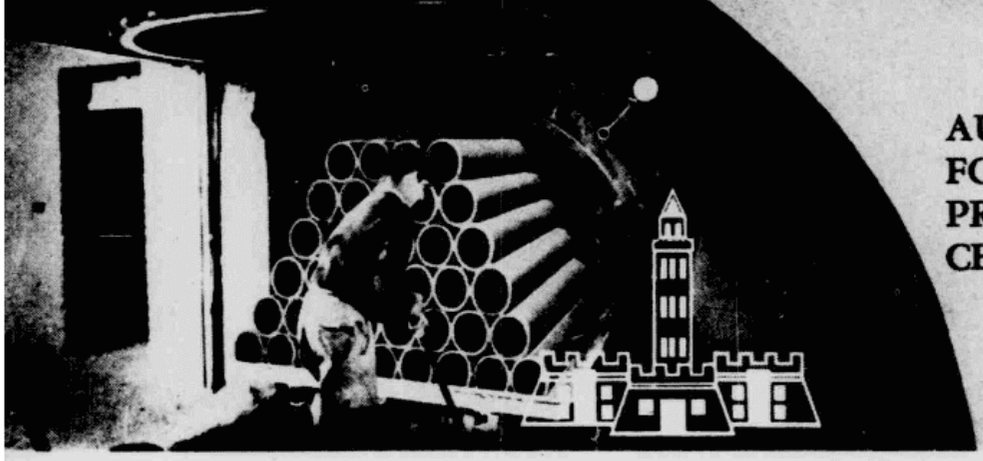
The in-plant transport vehicles carry pipe and couplings through each stage of processing, from forming pipe to machining and finishing operations.

According to William J. Scharf, Plant Engineer, the autoclave cars are built to withstand the severe punishment they receive in the autoclaves where they are subjected to a steamy 105°F for up to 16 hours at a stretch. Many of the cars have been in continuous service without maintenance since the plant was opened in 1961.

A growing number of cars have special metallized carbon bearings in place of conventional roller bearings since the autoclaves are so hard on lubrication. All autoclave cars are equipped with Enterprise chilled iron wheels.

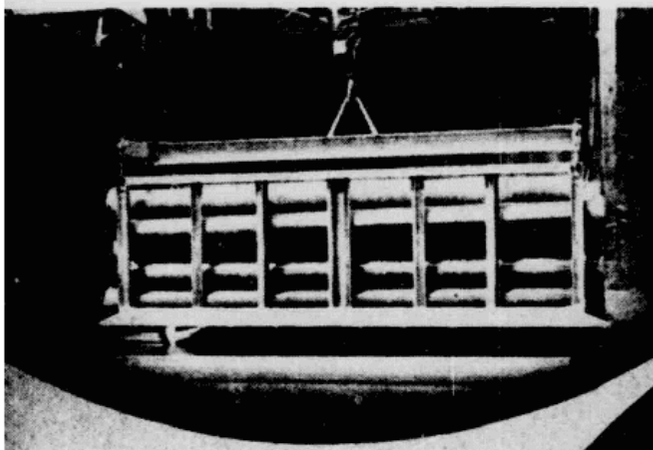
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

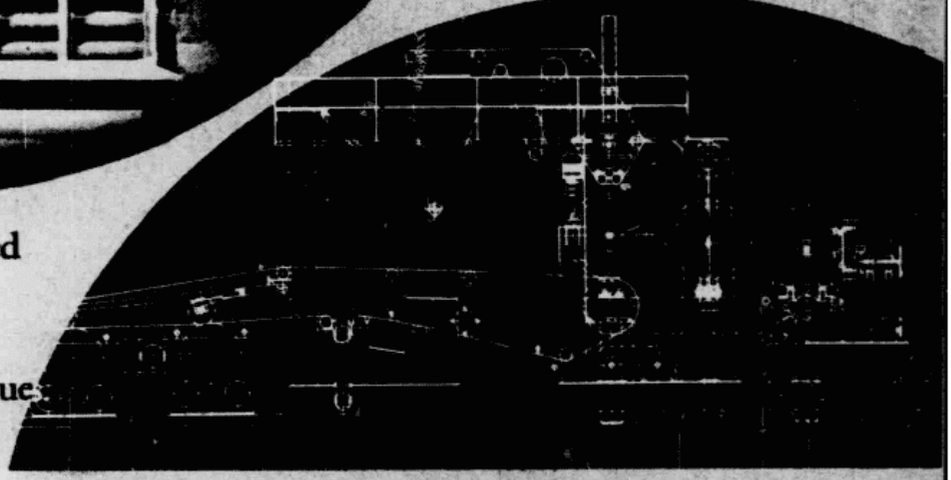


AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

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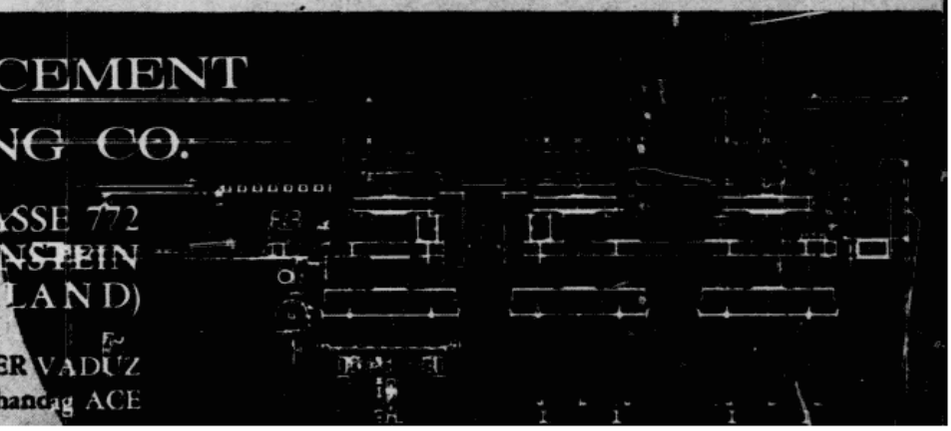


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Building

From: McGraw-Hill Information Systems Company

DECEMBER 1969—After three months of relatively weak contracting, activity in December boosted the Dodge Index (1957-59-100) to a new high of 218. Contract value exceeded the comparable year-ago total by 15%. Strong gains in both nonresidential building and in nonbuilding construction brought the December contract value to $5,228,444,000.

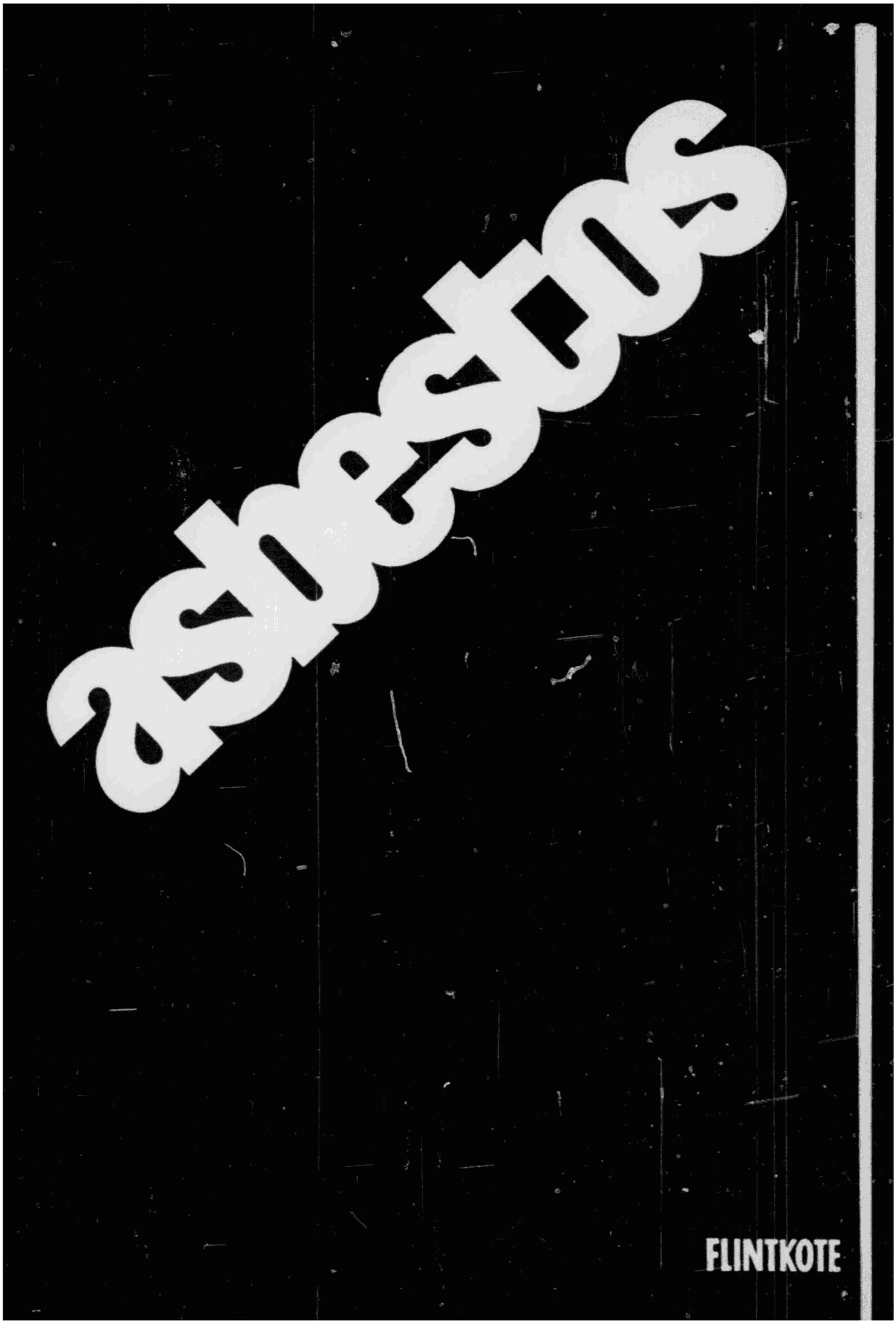
The unexpected heavy contracting for future construction was not only at odds with the generally downward drift of most other major business indicators, but it amounted to a sharp reversal of the recent softening in construction activity itself. Noting "a highly erratic pattern of recent contracting, due to the pull of a very strong demand for construction of all kinds against the tug of restraint by tight money and reduced public spending," G. A. Christie, Vice President and Chief Economist with Dodge, interpreted the December peak "as more apt to be just another temporary departure from 1969's essentially downward trend than the start of a new upswing."

Nonresidential building contracts were valued at $2,167,694,000, 17% ahead of the year-ago total. Two large office buildings started in New York and Chicago helped to raise the level of commercial building nearly 50% over the comparable 1968 month. Contracts for hospital construction were also up sharply, while schools and manufacturing and public buildings were among the categories showing declines.

Residential building contracts totaled $1,743,512,000, the same as the previous December, but accounted for 5% fewer dwelling units. Moreover, a much higher proportion of the current total went for apartment units (42% vs. 35% a year earlier) than for single family homes.

Nonbuilding—Several more large utility projects and an unusual situation in highway construction led to a total value of $1,317,238,000, a 39% December-to-December increase in nonbuilding construction contracts. Contracts for electric generating facilities increased by more than 80%. Highway construction was double the year-ago total, but the comparison is distorted by the fact that in December 1968 the

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asbestos
FLINTKOTE

Federal Highway Trust Fund was "frozen" as an anti-inflationary measure. By normal standards, the current December volume of highway work was about on trend.

YEAR 1969—A late surge of contracting brought the total of 1969 construction contract value to $67,425,383,000, 9% above 1968's contract value, with most of the increase attributed to inflation. Construction costs were up more than 7% in 1969. *Nonresidential* building contracts for the year were valued at $25,667,027,000, a 14% gain over 1968. Every principal category, except for religious structures, showed a gain in construction contract value. For the year as a whole, the total of 1,491,000 dwelling units slipped 2% below the number contracted under 1968's more-favorable mortgage conditions, with all the loss concentrated in one-family units. Due to higher costs, the value of 1969 *Residential* contracts totaled $25,219,408,000, a 2% increase over the previous year. *Nonbuilding* construction contracts totaled $16,538,948,000, a 15% advance over 1968. Contracts for electric generating facilities completed the year at a record high of nearly $3½ billion.

NICOLET KOLORMATE—A color-coordinated asbestos product that exhibits high corrosion and chemical resistance is being used for fire-extinguisher chamber doors in a $26 million state highway tunnel through Big Walker Mountain, near Wytheville, Virginia. The doors are made of KolorMate®, a monolithic asbestos-cement sheet developed and manufactured by *Nicolet Industries, Inc.*, Ambler, Pennsylvania, and fabricated by *Brunswick Asbestos Company* of Philadelphia. Because of its strength, beauty and chemical resistance, KolorMate was an excellent choice for use in the highly-corrosive atmosphere encountered in tunnel service. Each door assembly measures 4x4 feet and weighs approximately 260 pounds. All hardware components are custom-cast stainless steel. The doors are held tightly closed by magnets to insure a waterproof and fireproof chamber.

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Automobile Sales

NOVEMBER 1969 motor vehicle factory sales from plants in the *United States* totaled 855,239 (passenger cars—682,089, trucks and buses—173,150). The total for November 1968 was 1,040,745.

Motor vehicle factory sales from plants in *Canada* totaled 126,527 in November 1969 compared with 129,538 in November 1968

THE INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM will be held at the King Edward Hotel, Toronto, Canada, April 16-18, 1970. It will be the third in a continuing series of biennial meetings organized by active exploration geochemists and sponsored by funds donated by government, universities and learned societies. This year, the Symposium is being sponsored by the Geology Division of The Canadian Institution of Mining and Metallurgy and the Society of Economic Geologists and it promises to be truly international in scope and in attendance. The opening address, "Geochemistry—The Link between Ore Genesis and Exploration," will be delivered by Dr. Duncan R. Derry of Toronto.

Registration forms and information can be obtained by writing Dr. J. A. Hansuld, Amax Exploration, Inc., Suite 1302, 7 King Street East, Toronto 1, Ontario, Canada.

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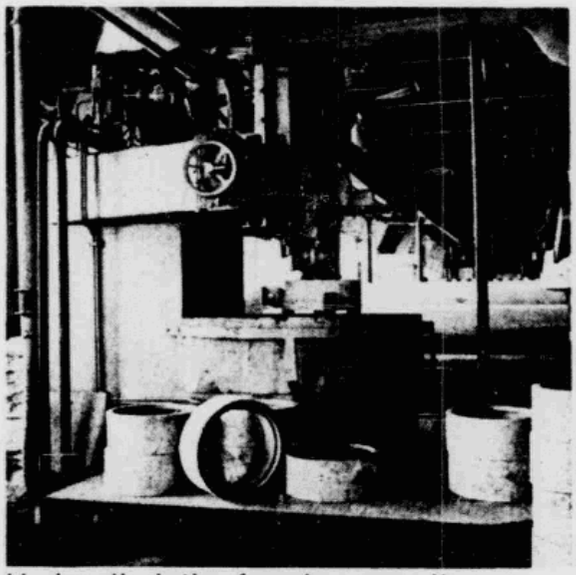
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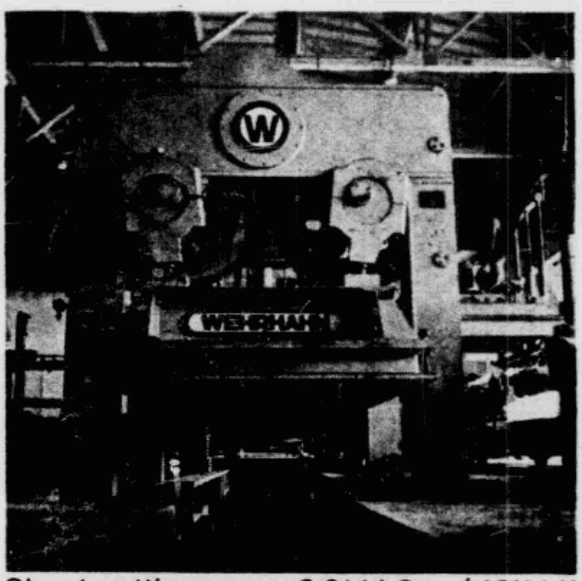
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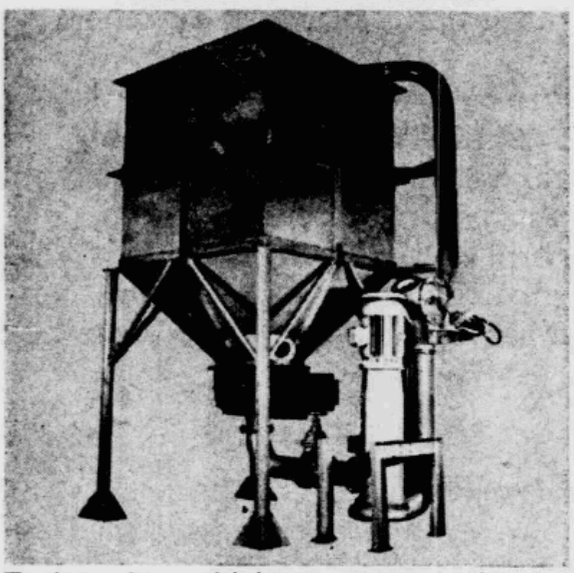
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LINT-FREE KNITTED PORTERSITE FELT has been introduced by The Thermoid Division of *H. K. Porter Company, Inc.* Under development for the past two years at the asbestos textile plant at Charlotte, North Carolina, the felt is now in full production and is supplied in 50-foot rolls — 60" in width and in nominal thicknesses of ¾", 1" and 1½".

Primary markets for the knitted felt are in marine and stationary power plants for high-temperature insulation applications. During on-the-job handling by insulation workers, the felt reduces lint and dust by 50% as compared with the standard woven felt. The reduction in lint and dust is especially valuable when preparing the insulating felt for removable flange pads at the job site. For fittings such as elbows and tees, the pads must be cut to size and laced on by hand. Additional advantages include no wetting down or hosing prior to cutting, easier cutting because of a firm finish and no unraveling. Portersite conforms to Military Specification MIL-I-15091c.

The major difference between the new felt and standard amosite asbestos felt stems from the knitted construction of the new felt as opposed to typical woven constructions. In the manufacturing process, which requires different equipment, knitting permits better control of the fibers and binds them closely and more uniformly. A chemical finishing treatment further firms the outer layer and seals loose fiber ends.

THERMOID ASBESTOS TEXTILES (Bulletin No. TH-5116) presents a general guide as to applications, sizes and manufacture of five categories of Thermoid asbestos textiles: tape; cloth; wick, rope and tubing; asbestos yarns, cord and thread; and asbestos and glass felts. Copies are obtainable from the Thermoid Division of *H. K. Porter Company, Inc.*, Pittsburgh, Pennsylvania 15219. Other product bulletins available on Thermoid asbestos products concern acoustical material, conveyor belting, lap and roving, and

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THE GREAT ORME CABINLIFT at Llandudno, Wales, was inaugurated in July 1969. It provides a comfortable, interesting and scenic ride from Happy Valley to the summit of the Great Orme, a distance of one mile. Total capacity of the cabinlift is 1,000 passengers per hour. It travels at a speed of 7 miles per hour and covers the ascent to the terminal platform (700 feet above sea level) in 9 minutes.

The lift is of the BRECO detachable grip system and operates on the monocable principle. Between the terminal stations, the rope is supported by sheaves mounted in batteries on top of intermediate trestles. Attached to the trestle cross arms are sheave-carrying articulated mount beams which pivot on FEROBESTOS bearings, machined from FEROBESTOS Grade LA33 material. The articulated mount beams support pair, quad or hexa beams which are also fitted with FEROBESTOS pivot bearings of various sizes.

FEROBESTOS materials are also used in Sweden for bushes in the pivots which support pairs of wheels mounted in tandem for use on ski-lifts. The materials were specified for these applications because of their superior performance when compared with metallic bearings operating with high unit loadings and small oscillatory movements. The ability of the material to operate successfully with less-frequent applications of lubricant is also advantageous.

FEROBESTOS materials are manufactured by *J. W. Roberts Limited* (a Turner & Newall company), Horwich, Bolton, England.

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PRODUCTION - IMPORTS - EXPORTS

Australia—*Production* of Chrysotile asbestos in New South Wales amounted to 179 short tons for the *First Quarter of 1969*. The total production for the same period in 1968 was 204 tons.

Exports of all types and grades of asbestos totaled 30 tons, valued at $8,000, for the *First Quarter of 1969*. The export figure for the first three months of 1968 was 338 tons, valued at $73,000.

(The above statistics were supplied by the Bureau of Mineral Resources, Geology and Geophysics, Canberra.)

Canada—Producers' shipments of asbestos during *October 1969* totaled 154,791 short tons (131,969 tons from Quebec plants and 22,822 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for October 1968 was 152,206.

(These figures were supplied by the Dominion Bureau of Statistics, Ottawa.)

T&N Exports—Exports by Turner & Newall Limited from the United Kingdom are running at record levels. Goods worth £20,500,000 were exported during the twelve-month period ending September 30, 1969, an increase of nearly 28% over the previous year.

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Exports From U.S.A.

Unmanufactured Asbestos:

(Figures from U.S. Bureau of the Census) **OCTOBER 1969**

Crude & Spinning Fibers	s. tons	16	$ 4,417
Non-Spinning Fibers	s. tons	1,081	165,915
Waste & Refuse	s. tons	1,335	117,800
		2,432	$ 288,132

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	1,575,537	$ 140,096
Other Asbestos-Cement Articles	Lb	798,712	137,258
Gaskets & Packing	Lb	705,326	843,756
Textiles & Yarns	Lb	1,462,936	362,934
Mfrs. Other than Friction Materials		..	500,742
Clutch Facings & Linings for Auto. Use	No	206,831	195,125
Clutch Facings & Linings, Other	No	65,093	52,674
Brake Linings for Automotive Use	Lb	583,711	423,107
Brake Linings, Other	Lb	136,367	127,440
			$2,783,132

Exports From Canada

Unmanufactured Asbestos: Short Tons

(Published by Dominion Bureau of Statistics) **OCTOBER 1969**

	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	123	2,970	30
Western Europe	1	1,203	24,997	17,252
Middle East	..	..	1,451	233
Africa	..	..	25	100
Asia	7	189	4,560	9,800
Oceania	..	28	1,834	685
So. & Cen. America & Antilles	..	75	6,724	1,751
United States	..	1,231	22,500	37,907
	8	2,849	65,061	67,758

The total amount of unmanufactured asbestos exported in *October 1969* was 135,676 short tons, valued at $18,586,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 58,000
Asbestos-Cement Building Materials	146,000
Asbestos Basic Products, Other	127,000
	$ 331,000

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Exports From U.S.A.

Unmanufactured Asbestos:

(Figures from U.S. Bureau of the Census) **OCTOBER 1969**

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Clutch Facings & Linings, Other	No	65,093	52,674
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Brake Linings, Other	Lb	136,367	127,440
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Exports From Canada

Unmanufactured Asbestos: Short Tons

(Published by Dominion Bureau of Statistics) **OCTOBER 1969**

	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
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Western Europe	1	1,203	24,997	17,252
Middle East	..	..	1,451	233
Africa	..	..	25	100
Asia	7	189	4,560	9,800
Oceania	..	28	1,834	685
So. & Cen. America & Antilles	..	75	6,724	1,751
United States	..	1,231	22,500	37,907
	8	2,849	65,061	67,758

The total amount of unmanufactured asbestos exported in *October 1969* was 135,676 short tons, valued at $18,586,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 58,000
Asbestos-Cement Building Materials	146,000
Asbestos Basic Products, Other	127,000
	$ 331,000

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Asbestos Magazine, 1970, February 1970
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Asbestos in 1969 (annual preliminary Mineral Industry Survey, published by the U.S. Bureau of Mines)—Total production of asbestos (Chrysotile and Anthophyllite) in the United States during 1969 was approximately 127,000 short tons, 6% greater than 1968. The total estimated value, $10,500,000, was only slightly higher than that of the previous year. The average value per ton fell from $90.00 in 1968 to about $82.00 in 1969. Production is derived from four States. Over 60% is produced in California; Vermont ranks second.

Apparent consumption totaled about 790,000 tons, some 3% below the previous year. This slight dip reflected a minor slow-down in construction activity.

Although Canada continues to be the major supplier of asbestos consumed in the United States, imports dropped slightly from a total of 674,000 tons in 1968 to about 620,000 tons in 1969. Imports of Crocidolite and Amosite from the Republic of South Africa showed decreases from the prior year.

Prices of asbestos from both domestic and foreign sources ranged from $47.00 per short ton for "shorts" to $1,650.00 for the highest grade "No. 1 Crude."

Although asbestos is used in the manufacture of many different products, about 70% is consumed in the production of asbestos-cement construction products, 7% is incorporated in floor tile and 3% is used in paper products.

Canada's Mineral Production 1969—Shipments of Canadian minerals dropped slightly in 1969. The total value of minerals was $4,687,742,200 compared with $4,725,341,147 in 1968, a decrease of 0.8%. During 1969, shipments of nonmetallic minerals were valued at $444,188,679. Although the tonnage of asbestos shipped was the same as in the previous year, the realized value was higher as producers' prices were increased early in the year. The shipment figures for *asbestos* were 1,596,450 short tons, valued at $196,759,000, for 1969 against 1,595,951 tons, valued at $185,024,662, for 1968.

(These statistics were excerpted from Catalog No. 26-202, annual preliminary estimate of Canada's Mineral Production 1969, published by the Dominion Bureau of Statistics, Ottawa, Canada. Copies are available at 25¢ each.)

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Full qualifications and background of experience will be highly appreciated. Mail your application to: Jalaprathan Cement Company Limited, 2640 Petchaburi Road Extension, P. O. Box 11-191, Bangkok, Thailand.

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INDUSTRY NEWS

HAPPY BIRTHDAY

David F. Calliari, Director, Treasurer & Chief Financial Officer, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, February 15.

Elmo A. DiSalvo, President & General Manager, Building and Industrial Products Division, and Vice President of Philip Carey Corporation, Cincinnati, Ohio, February 16.

L. E. Moody, Group General Manager-Asbestos, Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pa., February 16.

Donald E. Trimble, Treasurer, The Flintkote Company, New York City, February 18.

E. R. E. Carter, President, Advocate Mines Limited, Toronto, Ontario, Canada, February 20.

Robert Sanderson, President, Acme Asbestos Limited, Vancouver, British Columbia, Canada, February 21.

George W. Smith, Director, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, February 22.

Robert E. Cryor, President & Treasurer, North American Asbestos Corporation, Chicago, Illinois, February 23.

Charles M. Fenton, Managing Director, BBA Group Limited, Cleckheaton, Yorkshire, England, February 24.

W. H. Foster, Manager, Engineering, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, February 27.

J. L. Rainey, Vice President, American Asbestos Textile Corporation, Norristown, Pennsylvania, March 1.

Carl H. Thede, General Sales Manager, Building Products Division, GAF Corporation, New York City, March 1.

George W. Behnke, President, Simplicity Engineering Company, Durand, Michigan, March 3.

Robert S. Coleman, Vice President, National Asbestos Mines Limited, Thetford Mines, Quebec, Canada, March 3.

Gordon H. Gibbs, Mining Engineer, Willowdale, Ontario, Canada, March 3.

John H. Matthews, Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, March 3.

W. J. W. Smith, Director, Vice President & Sales Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, March 3.

Kempton Dunn, Vice Chairman, Illinois Central Industries, Inc., Chicago, Illinois, March 5.

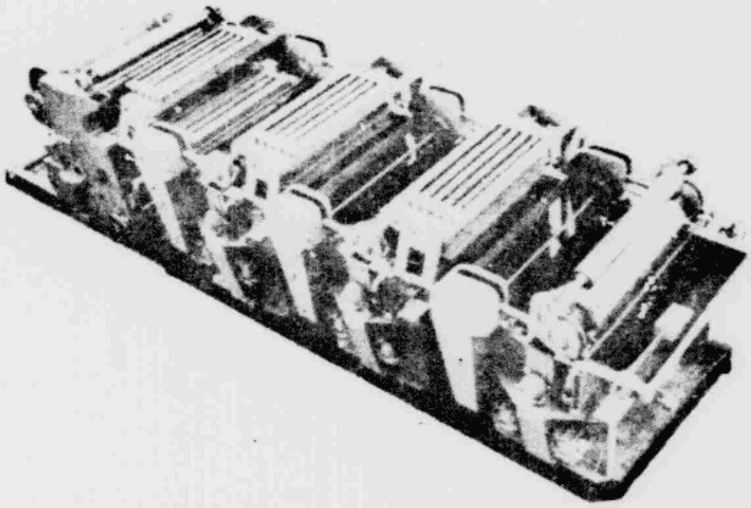
James R. Allen, General Manager, Dutch Brand Division, Johns-Manville Corporation, New York City, March 6.

William G. Brinker, President, The Clark Asbestos Company, Cleveland, Ohio, March 8.

D. W. Hills, Chairman & Managing Director, Turner Brothers Asbestos Company Ltd., Spotland, Rochdale, England, March 9.

Paul C. Nikitovich, Director for Latin America & Special Assistant

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to the General Manager, Johns-Manville Corporation, New York City, March 9.

M. P. Carson, Vice President-Sales, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, March 10.

Haydn S. Wood, Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, March 11.

George R. Vila, Chairman & President, Uniroyal, Inc., New York City, March 12.

Colin S. Hoyes, Works Manager, Wunderlich Limited, Brisbane, Queensland, Australia, March 14.

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

Canadian Johns-Manville Company Limited plans to spend some $75 million over the next five years at its asbestos mine, in the Eastern Townships, Quebec, Canada. About $50 million of this amount will be spent in Quebec proper for equipment and building materials and the bulk of the funds will be used to relocate part of the mine's production facilities, made necessary because of the enlarging of the pit. For every additional foot of depth of the pit, the perimeter of the pit must be pushed back so as to maintain safe slopes. Since Canadian Johns-Manville plans to go much deeper into the pit than the present 800-foot level, it must move some of its facilities. The mill, however, will not have to be relocated for the next 25-30 years, at the current production rate.

The first part of the program calls for the relocation of the primary crushing plant, the concentration system, the dryer complex and the dry rock storage building. The project will also involve the relocation of a provincial road, the indemnification of property owners whose land is required, the purchase of additional and larger equipment, and many other expenditures. As a direct consequence, many jobs will be created both during the construction phase of the project and through the accelerated program of overburden removal as the pit is enlarged. C.J-M presently employs more than 2400 people at its industrial complex at Asbestos.

C. J-M recently placed an order with HAZEMAG (Canada) Limited, Montreal, for sixteen "K" type impactors. The equipment is to be used in C.J-M's new ore concentrating plant. Also, HAZEMAG crushers will handle the tertiary and quaternary crushing at the new facility.

Industry in the USSR will receive an extra 320,000 tons of asbestos as a result of the opening of Plant No. 6 of the *Urals Asbestos Combine*. Claimed by the Russians to be the largest asbestos plant in the world, the new facility incorporates many new production features emanating from the latest Soviet research into asbestos processing. One unusual feature is the handling of very low-grade ore. Up to 12 million tons of ore, with asbestos content of only 1.77%, will be processed annually. The low-grade ore is produced mainly as a by-product by other concerns capable of utilizing only

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Abitibi Asbestos Mining Company—Bulk pilot plant testing of development rock on underground material from its asbestos property 50 miles north of Amos, Northwestern Quebec, is being carried out in the pilot plant of the Department of Natural Resources, Quebec City. The first bulk sample on which testing has been completed was taken for 50 feet across a low-grade zone which is not included in the drill-indicated estimates. The test result established a value of $2.62 per ton of rock. The sample is described as being from the "fringe zone" that forms a halo around the main asbestos deposit. The second sample has been taken from across the first 200 feet of the main zone and the test work has shown it to have a value of $7.88 per ton of rock.

Cassiar Asbestos Corporation plans to expand mill capacity at its main Cassiar operation from 75,000 tons of fiber per year to 100,000 tons. The expansion will cost an estimated $4,300,000 and should be completed by the end of this year.

Since ore benches at the mountain-top mine are now longer, no difficulty should be encountered in maintaining mill feed at the higher planned rate. Ore reserves are quite ample, amounting to some 25,000,000 tons to the presently-drilled depth of 340 feet below the lower adit level.

Present capacity of the Cassiar mill is 75,000 tons of fiber annually, operating on a five-day week. The expanded plant will provide for a total output of 100,000 tons of present grades plus 10,000 tons of a new, shorter grade, operating on the same schedule.

In addition to the higher output, the revamped plant will incorporate a number of changes that will improve general operating and maintenance conditions which should, in turn, result in some reductions in costs.

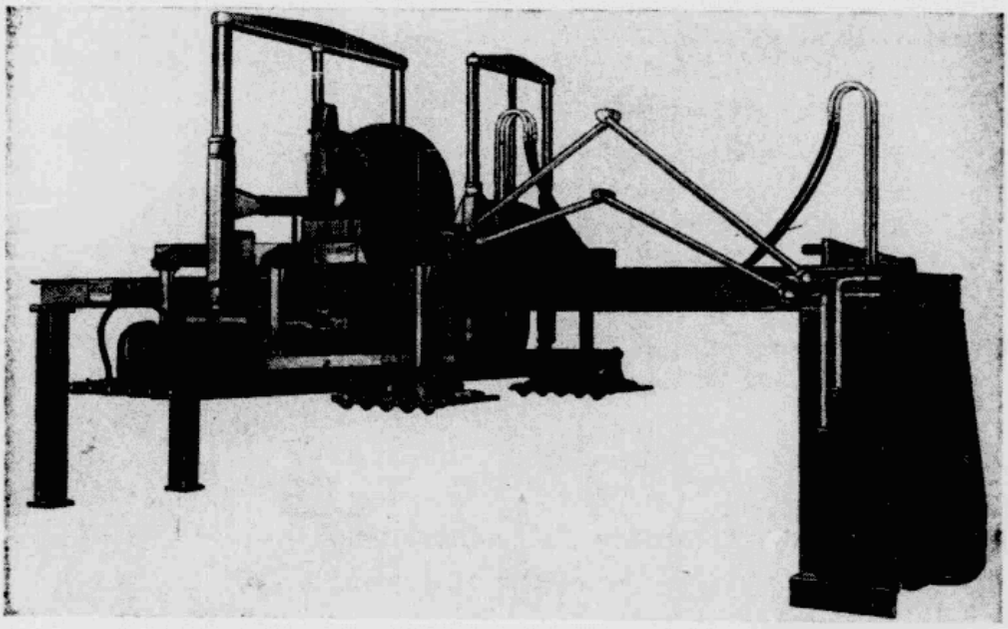
A two-week course in quality control at *Carey-Canadian Mines Ltd.*, East Broughton, Quebec, Canada, was planned in cooperation with the *Department of Industry, Trade and Commerce*, Ottawa, as part of its program of bringing foreign technical personnel to Canada for training with a view to fostering sales opportunities and improving after-sale service. Five gentlemen who are overseas distributors of asbestos and asbestos products, (from England, Australia, Denmark, Japan and Mexico) studied the latest Chrysotile fiber production methods, quality control and shipping and mining techniques. The course included a one-day visit to an underground mining operation.

U.S./French Cooperative Program—A seven-member French building research team toured the Gaithersburg, Maryland, facilities of the U.S. National Bureau of Standards in January, thus commencing a two-week visit in the United States as part of the U.S./French Cooperative Program. Aiming at an eventual exchange of scientific guest workers highlighted by a two-way flow of new technical information and mutually-beneficial use of both countries' specialized facilities, the series of visits began with a visit to France last November by a five-member research team headed by the Deputy Chief of the Building Research Division of NBS.

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NOTES FROM 1969 ANNUAL REPORTS

MSAULI ASBES LIMITED

As anticipated, the consolidated results for the financial year ending June 30, 1969, decreased in comparison with the previous year. The reasons are mainly the planned additional expenses for the larger amount of overburden removed to allow for selective mining, and an increase in administrative costs due to the larger volume of shares currently in circulation.

The consolidated loss for the year was R16,829 compared with a profit of R139,519 the prior year. The unappropriated profit of R47,670 in 1968 has been reduced to R30,841 of which R29,000 has been appropriated as a reserve for obsolete mine stores. The balance of R1,841 will be retained in reserve and carried forward.

During the year, capital expenditure on fixed mining assets amounted to R2,785,125 — utilized for mining equipment and vehicles and to erect the new milling plant. In addition, R132,620 was expended and charged against profits for replacement of obsolete quarry equipment.

The new milling plant was completed according to plan, and was officially opened on August 28, 1969. (An article on the official opening and some of the unique features of the new plant can be read in the November 1969 issue of ASBESTOS, page 10.)

Msauli Asbes holds the entire issued share capital of African Chrysotile Asbestos Limited and Msauli Krisotielasbes Limited. During the year, African Chrysotile removed 2,227,694 tons of overburden and crushed 421,222 tons of ore to produce 25,252 tons of fiber. According to the Chairman of Msauli Asbes, Mr. W. B. Coetzer, "The market for chrysotile fiber remains strong and no problems are foreseen in selling the increased production at existing prices."

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

The Mineral Industry of the Philippines—The gross national product of the Philippines, at current prices, increased about 11% in 1968 to approximately $7.2 billion. Mining output, as compared with 1967, was up almost 12% and equivalent to nearly 3.3% of the GNP. The United States and Japan continued to be the country's most important trading partners. Combined, they accounted in 1967 for 63% of product imports and 77% of exports. Although 58 metric tons of asbestos were produced in 1967, figures were not available for the year 1968. Canada supplied almost half of the 1,730 tons of asbestos imported by the Philippines in 1966.

The Mineral Industry of Algeria—The petroleum industry is Algeria's most important single source of revenue and foreign exchange. Asbestos was not produced or exported, but import figures were given for 1965 and 1967 — 1,968 metric tons and 1,826 tons, respectively. Comparable data for 1966 are not available.

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PERSONNEL NEWS

ABEX CORPORATION

Thomas W. Russell, Jr. has been elected Chairman of the Board and Chief Executive Officer, succeeding *William T. Kelly, Jr.*, who has retired but remains as a Director of the corporation. Mr. Russell joined Abex in 1945 and was elected President in 1968. *N. George Belury*, formerly First Vice President, has been named President. He has been with the company since 1937.

ATLAS ASBESTOS COMPANY

William R. Whitener has been appointed Sales Manager. He is well-known in the Asbestos Industry and received his early training with Lake Asbestos of Quebec Limited. Atlas Asbestos operates an asbestos deposit near Coalinga, California. (Huxley Development Corporation will continue as the Atlas sales representative.)

PHILIP CAREY CORPORATION

John Hasselbach, Vice President-Sales, announced the appointment of *E. Sterling Brown* as Sales Manager of Industrial-Insulation Products. Mr. Brown joined Carey in 1964 as a Sales Representative in the Baltimore, Maryland, territory.

CERTAIN-TEED PRODUCTS CORPORATION

Charles Calder Clubb was named Field Merchandising Manager of Irrigation Pipe for the CAP Division. He has been with the company since 1952 and his most recent post was Irrigation Products Manager for the St. Louis, Missouri, District.

GAF CORPORATION

The new National Accounts Sales Manager, Floor Products Division, is *Thomas Mac Auley*. He joined GAF in 1968 as Field Representative for the Albany, New York, area and in his new position will headquarter at Vails Gate, New York.

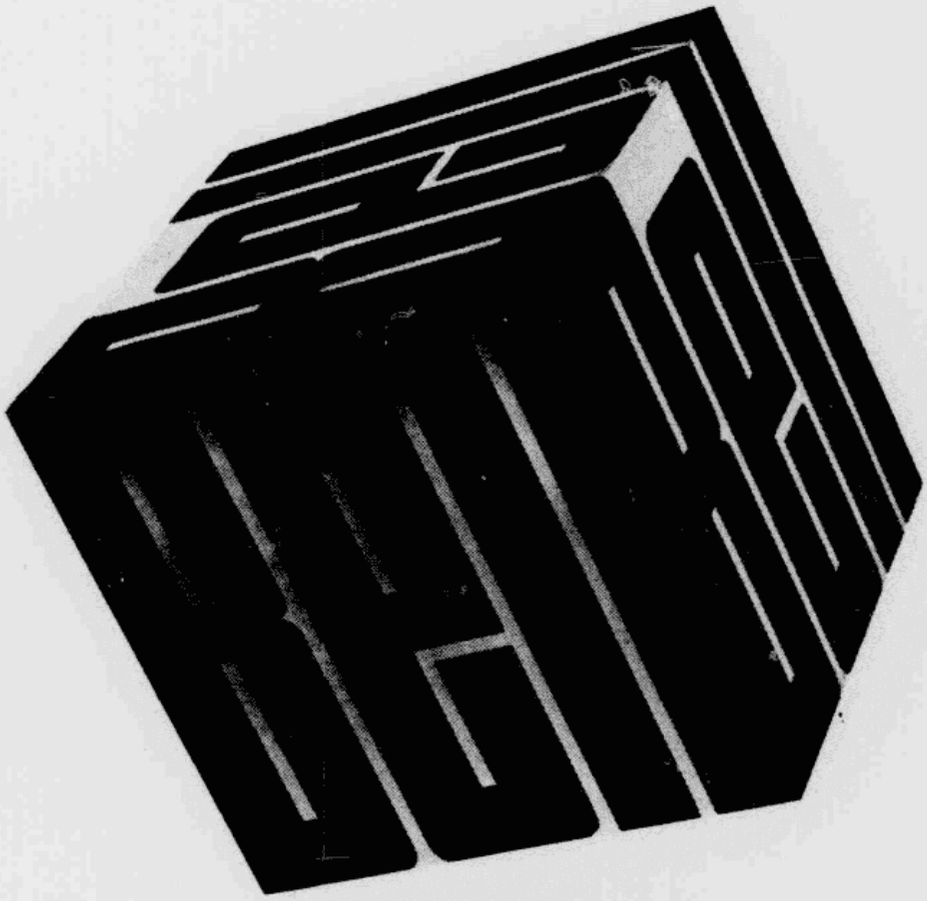
JOHNS-MANVILLE CORPORATION

Two new members have been elected to the Board of Directors—*J. Jacques Beauchemin*, President and Director of the Sullivan Mining Group Limited, Montreal, and *Robert L. Geddes*, Dean of the School of Architecture and Urban Planning at Princeton University and a Senior Partner in the architectual firm of Geddes Brecher Qualls Cunningham.

NATIONAL GYPSUM COMPANY

William M. North has been elected to the newly-created position of Corporate Group Vice President. In addition to his new responsibilities, he will continue as President of American Olean Tile Company, a division of National Gypsum, and as a member of National's Corporate Board of Directors.

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ASBESTOS STOCK QUOTATIONS

Close—January 23, 1970

Abitibi Asbestos	*$6.90
Advocate	*$2.40
Asarco	31⅞
Armstrong Cork	32⅝
Armst Cork (pfd 3.75)	55
Asbestos Corporation	$26.34
Bendix	29¾
Bendix (pfd 3)	52
Carlisle	13¾
Cassiar	*$18.62
Certain-teed	21¼
C-teed (pfd .90)	22⅝
Conwest	*$12.75
Flintkote	22½
F-kote (pfd-A 4.50)	79
F-kote (pfd-B 2.25)	33½
GAF	15½
GAF (pfd 1.20)	22⅝
Garlock	17½
Glen-Alden	8⅛
G-Alden (pfd 3.15)	63
G-Alden (pfd 3)	57
G-Alden (pfd 2.25)	33
Grace	26⅛
Gulf & Western	18⅝
G&W (pfd 1.75)	62
G&W (pfd 3.50)	77¾
G&W (pfd 3.87)	46½
G&W (pfd 5.75)	63⅝
Johns-Manville	28⅛
Maremont	10⅛
National Gypsum	21⅛
Patino	*$48.00
Porter (pfd 5.50)	67¼
Raybestos-Manhattan	48½
Unarco	11
Union Carbide	36
Uniroyal	16¾
Uniroyal (pfd 8)	101
United Asbestos	4-5/16

*Canadian currency
(Source: The Wall Street Journal)

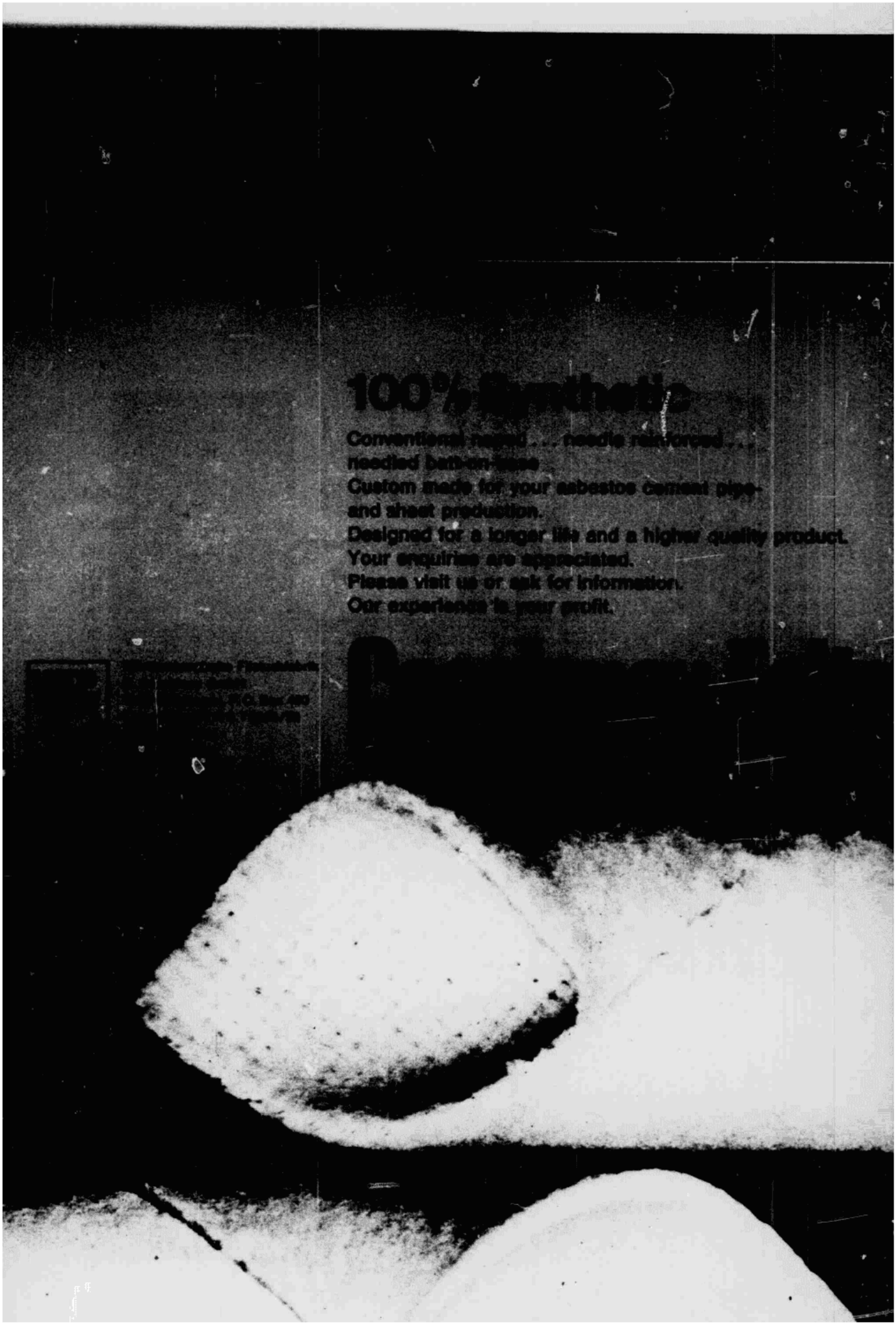
U.S. Documents—The following reports are available at $3.00 per paper copy and 65c per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Virginia 22151.

AD 692 481—Effects of Environmental Factors on Composite Materials, by J. C. Halpin, Air Force Materials Laboratory; examines various possible mechanisms of environmental factors that affect structural performance of composite materials.

AD 692 776—Analytical Study of Hugoniot in Unidirectional Fiber-Reinforced Composites, by F. K. Tsou & P. C. Chou, Drexel Institute of Technology, for the Air Force; develops a theory based on flow across a selected control volume to predict the Hugoniot of a shock moving along the longitudinal direction of a unidirectional fiber-reinforced composite.

AD 693 654—Viscoelastic Behavior of a Nonlinear, Fiber-Reinforced Plastic, by Y. C. Lou & R. A. Schapery, Purdue University, for the Air Force; studies nonlinear viscoelastic behavior of a unidirectional, glass fiber-epoxy composite under controlled loading and at approximately 164° F and 21% relative humidity.

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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.

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Remember When?

(February 1920 ASBESTOS)

New Advertiser: Dominion Asbestos and Rubber Corporation.

An article titled "Stupendous Growth of Motor Car Industry" pointed out that at the close of 1919 there were 7,602,000 registered passenger and commercial automotive vehicles in the United States, as against 2,342,857 in 1915. Industry statistics showed that when 6,000,000 cars were in use there was a renewal demand for 1,000,000 cars per year. The article concluded there was "not much cause to worry about the future of the asbestos brake lining business."

Mr. Oliver Bowles reported on "A New Type of Asbestos in South Africa." Commercial production of the material, called "Amosite," from the initial letters of Asbestos Mines of South Africa, was begun about 1915. Because of the exceptional length of the fibers, it was predicted the material might become important in the manufacture of many asbestos products in the United States.

Three Canadian asbestos properties, the Jacobs, Federal and Berlin Asbestos Mining Companies, all situated in the Province of Quebec, were consolidated under the title Consolidated Asbestos, Ltd. Sir Mortimer Davis was principal owner and Chairman of the Board of the new company, with Major General Sir John Carson as President and Managing Director. Other directors were Hugh Allan and H. L. Marler.

An article by F. A. Mett, General Manager of The Powhatan Mining Company, Baltimore, Md., described the processing and uses of the slip fiber varieties of Amphibole asbestos.

The Asbestos Textile Company purchased a property formerly owned by the Phoenix Linen Mills, North Brookfield, Massachusetts, to expand its manufacture of asbestos textiles and allied products.

The Union Asbestos & Rubber Company, Trenton, New Jersey, was chartered with the specified intent to deal in oil well supplies. Incorporators were D. M. Lovett, C. M. Schwoger, J. M. Shear, R. A. Mackie, H. M. Prill and D. M. Mackie.

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

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asbestosclaims.law/library/12634/60

You know the asbestos produced at is GAF mine is good because GAF uses it too.



A lot of the asbestos produced at GAF Vermont Mines goes into mineral fiber products such as GAF siding and roofing, GAF pipeline felts and many other GAF products.

We make sure it's top rate.

We mine it, we mill it, we test it and we have absolute quality control from start to finish.

So when you buy GAF asbestos, you're getting the same care, the same quality control that we put into our own products.

GAF offers a complete line of chrysotile fibers for use in electrolytic cells, compressed sheets, brake linings, gaskets, plastics, shingle stock, asbestos papers, insulation cements, floor tile and phenolic molding compounds.

For full details write to: GAF Corp