October 1971

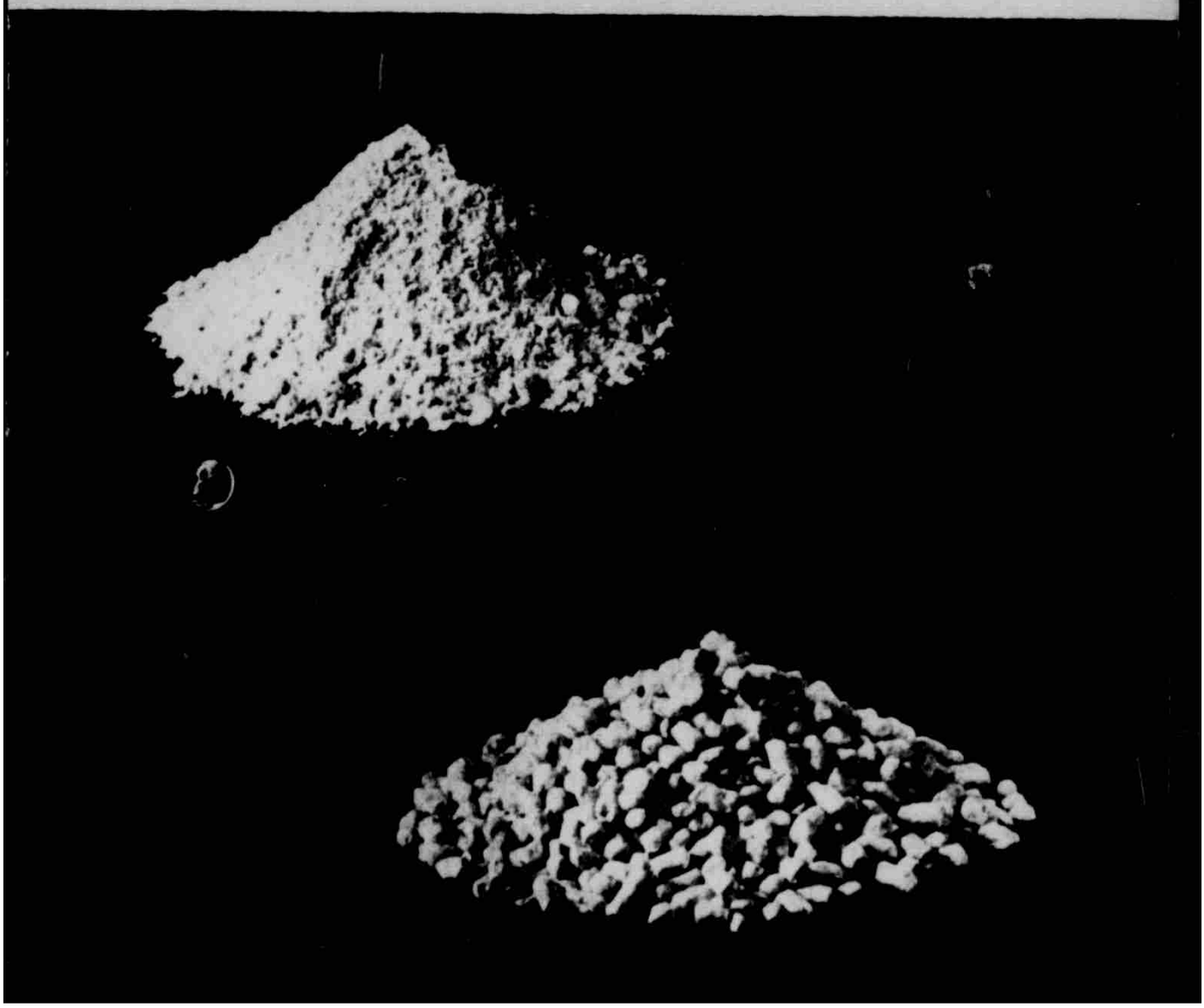
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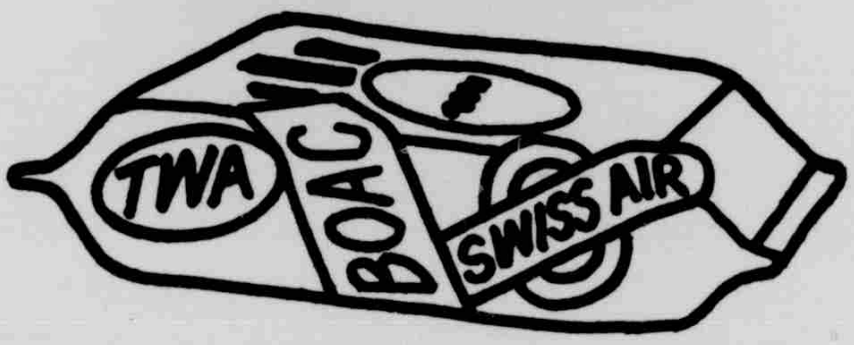
The Asbestos Textile History of Multibestos

"Calidria" Asbestos Pellets



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ASBESTOS

VOLUME 53 OCTOBER 1971 NUMBER 4

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XV: The Multibestos Company

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

The Multibestos Company was founded in Walpole, Massachusetts, in the year 1916. The original name of the firm was Standard Woven Fabric Company and its major products were woven brake lining and woven clutch facings.

William Lowell Putnam, the founder of the firm, was a man of many talents and financially interested in several manufacturing enterprises. At the time of his death in 1924 at the age of 62, a tribute was paid to him that said, in part, "He had the steady, sound and reliable qualities we are brought up to consider as New England virtues . . . His success in the management of companies was to select men with sound fundamentals and then to stimulate these men to unusual effort."

One of Mr. Putnam's "sound selections" was Eugene O. Christiansen, General Manager of Multibestos, who, in turn, engaged Thomas H. Bateson in 1919 as Plant Superintendent. Tom Bateson retained this position until the company was sold in 1930 to Dewey & Almy Chemical Company. He was then appointed Resident General Manager.

The plant at Walpole previously had been used by the now defunct Walpole Tire & Rubber Company, a manufacturer of tires, rubber heels and sheet rubber. In its first year of existence the new company disposed of the Banbury mixer, sheeter, presses and a complete rubber reclamation plant. The next step, in 1917, was to install the textile equipment necessary to produce yarn, brake lining and clutch facings. The original mill included twelve sets of woolen-type cards, six mules and tape looms of various capacities—totaling 210 spaces. In addition, of course, there was the requisite fiber preparation department and the finishing department for

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Asbestos down on the farm.

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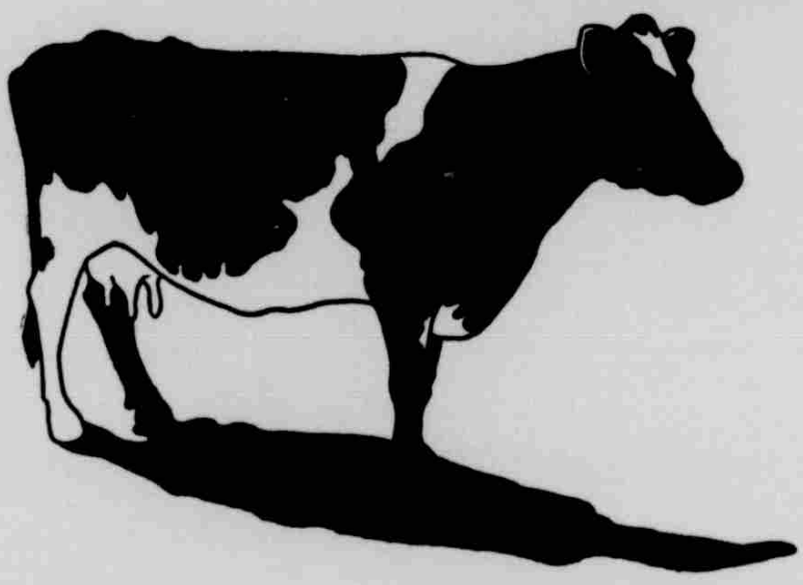
Asbestos also helps make building products immune to rot, rust and decay. So upkeep is low.

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brake lining and clutch facings. The latter included vacuum treaters, drying ovens, Blanchard grinders, multiple spindle drills, etc.

Mr. Christiansen had a quite sizeable staff of engineers and department heads including Ernest E. Waite who was employed in the Research Department. It was this same Ed Waite who in later years helped found the Waite-Wild Company. A promising young foreman at Multibestos was Herbert E. Sunbury. Herb Sunbury left the company in February 1927 to become Production and Mill Manager with the Asbestos Spinning and Weaving Corporation at Waterford, New York. Today he is Executive Secretary of the Asbestos Textile Institute.

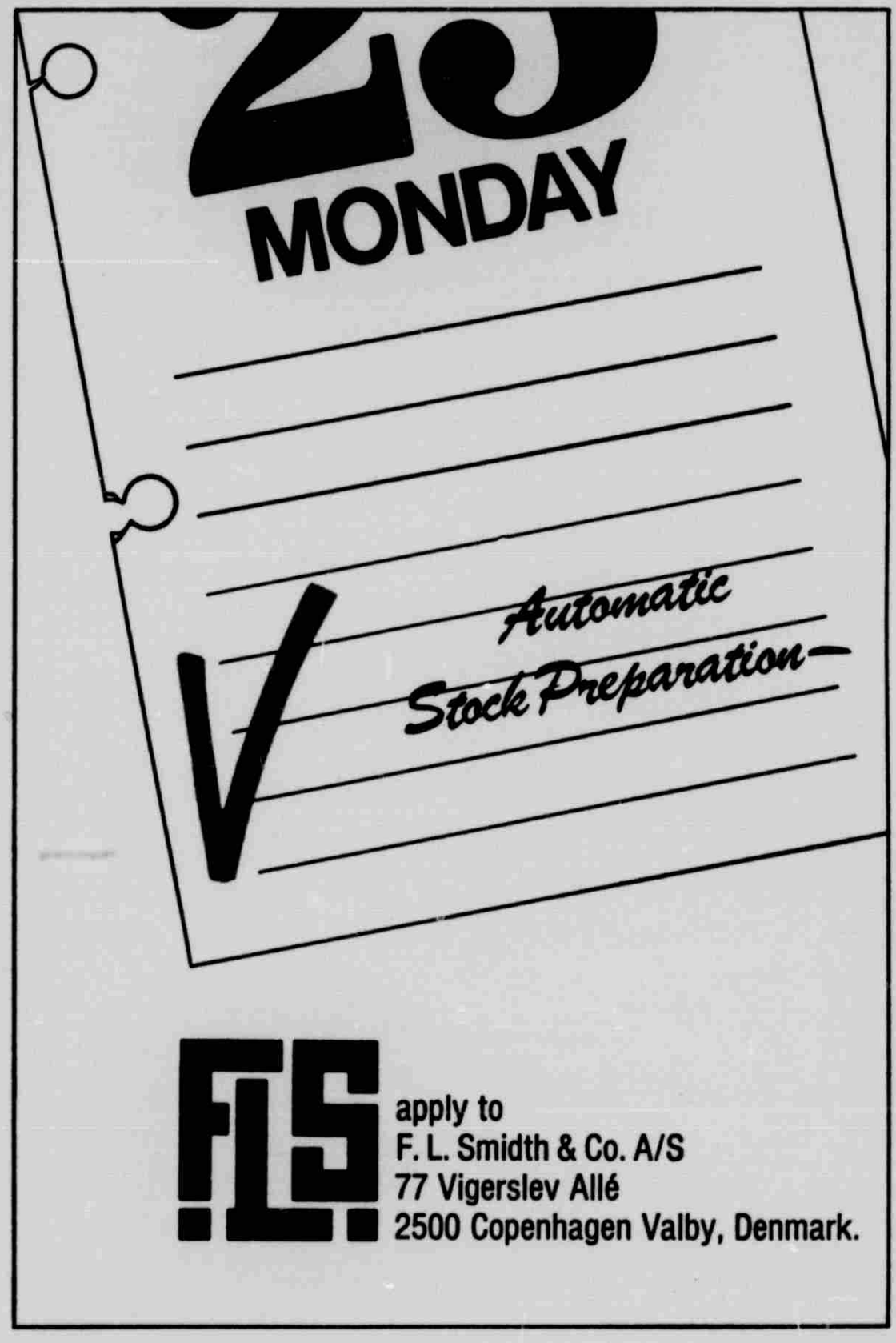
In 1922 the company announced its officers as Stoughton Bell, President; C. W. Bunker, Treasurer; E. C. Benway, Assistant Treasurer; and T. J. Daley, Secretary. At the same time it was announced that General Manager E. O. Christiansen and Sales Manager J. C. Donnelly had resigned.

Multibestos was an important factor in the friction materials industry prior to 1926 when woven brake linings and woven clutch facings were standard equipment on most cars. Thomas Daley was Detroit Representative and is credited with having sold to most of the important original equipment accounts during that time.

Prior to 1930, in an effort to up-date its manufacturing equipment, Multibestos installed asbestos paper machines and beaters for the manufacture of molded brake linings and molded clutch facings. Possibly these efforts were made too late as the business was sold to Dewey & Almy in 1930.

Although not specifically concerned with the "textile" side of the story, it may be of interest to some readers that an important contribution made in 1931 by Multibestos to the brake service trade was its chain of Multibestos Brake Service Institutes located in such cities as Chicago, Detroit, Boston, New York, Los Angeles and Philadelphia. The Institutes were established with two main purposes in mind: (1) to crease a source of information concerning the latest developments in braking mechanisms, brake lining equipment and materials; and (2) to afford an opportunity to jobbing and

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service station people to gain the proper advice and training of experts on brake servicing, brake service merchandising, trouble shooting, cost control and shop management and arrangement. The idea was enthusiastically received by both the public and the trade as an effective means to reduce automobile accidents caused by faulty braking mechanisms. Also in 1931 the company published a Brake Service Manual titled "A Merchandising Manual for Profitable Servicing Equipment," which, in essence, was a compilation of the standard practices of successful brake service stations and departments.

Dewey & Almy operated the plant at Walpole until the sale of the business to Raybestos-Manhattan, Inc., in 1935. The useable equipment was then absorbed into the Raybestos Division plant at Stratford, Connecticut. R/M still utilizes the Multibestos brand name in the export market.

Next Issue . . . .

Chapter XVI: Southern Asbestos Company

Chapter XVII: Asbestos Spinning & Weaving Company

THE COVER

Union Carbide Corporation is the only source of pelletized asbestos, essentially dust-free and readily bulk-handled. The front cover of this issue shows a comparison of "Calidria" Asbestos Open Fiber and Pellets.

Details of the asbestos pellets and other "Calidria" products are given in the feature article which begins on page 8.

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"CALIDRIA" ASBESTOS PELLETS

[The following article was prepared by John L. Myers, Marketing Manager for "Calidria" Asbestos, Mining and Metals Division, Union Carbide Corporation, Niagara Falls, New York. Mr. Myers will gladly handle any requests for samples or additional information regarding "Calidria" Asbestos pellets and other products.]

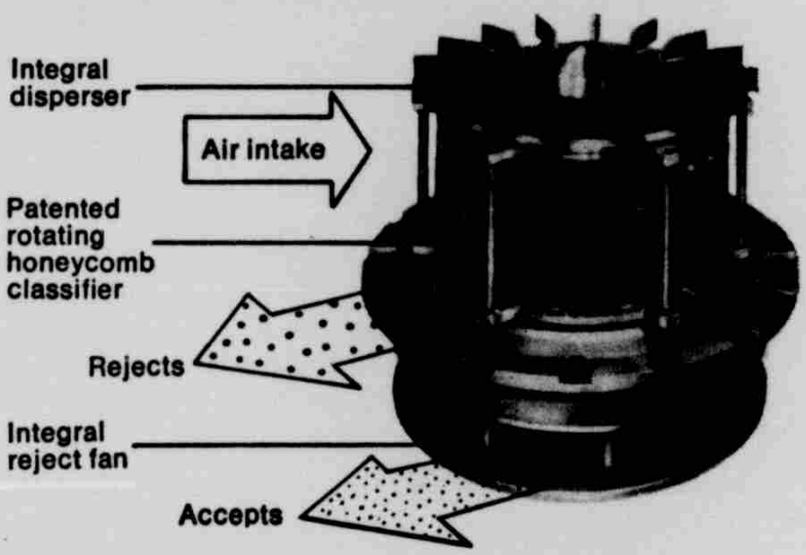
An unusual asbestos orebody, one of the world's largest mineral deposits, is located in California near Coalinga. This deposit is unique in that it contains only Chrysotile asbestos and consists entirely of the short-fiber mineral, equivalent to Canadian Grade 7 or shorter. Union Carbide Corporation began development of this deposit several years ago; however, normal markets for the mineral were found to be limited since it occurred in only one basic fiber length. Development and use of a proprietary, hydraulic beneficiation process subsequently enabled Union Carbide to create a series of asbestos products which were completely new to the Industry. Although some of these products are used in conventional applications, many new uses have been found for this extremely versatile material.

The most important innovation which Union Carbide has contributed to the Industry is pelletized asbestos. Asbestos pellets, marketed under the trade name "Calidria," were introduced primarily as a means to minimize asbestos dust. Pellets also cost less to ship and can lead to savings in handling and operating costs.

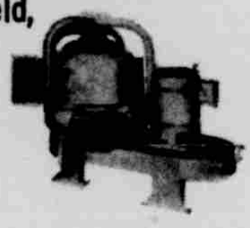
"Calidria" Asbestos pellets are nominally 3/8" in diameter by 3/4" long and they are available in bags on unitized pallets or in hopper cars. They have a bulk density of 44 pounds/ft^3 (50 ft^3/ton) and a 50-55° angle of repose. Pellets can be handled and conveyed by pneumatic or mechanical means, thereby permitting automatic or semi-automatic operations. The use of a closed transfer system, from hopper car storage to point of use, could eliminate exposure to asbestos dust. The pellets are friable and can be dispersed in dry form or in aqueous or resinous systems with conventional grinding equipment. No binder is used to make the pellets and they contain

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Exclusive "honeycomb" improves dry classification, INCREASES YOUR YIELD



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BAUER

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over 95% fiber, a significantly higher amount than any other short fiber Chrysotile product.

Several grades of "Calidria" Asbestos pellets are available from Union Carbide Corporation for many applications, including: floor tile, drilling fluids, friction materials, plastics, roofing compounds, papermaking, rubber compounds, mineral board (ceiling tile), gypsum compounds and coatings. "Calidria" products are also available in the conventional powder or open-fiber form.

The advantages of the unique Coalinga ore, the proprietary beneficiation process and continuing research have enabled Union Carbide to introduce several products for applications new to the Asbestos Industry. These products include RG-144 which is a highly-refined fiber used as a thixotrope in epoxy and other resins, as a reinforcing filler in PVC and nylon and as a thickener in coating compounds.

"Calidria" Asbestos RG-244 is a surface-coated fiber designed for use as a thixotrope in polyester laminating resins and gel coats. It is also used for sag and viscosity control in vinyl plastisols, organosols and many other systems. RG-244 is less expensive and, in most cases, outperforms pyrogenic silica at similar loadings.

Two titanated asbestos products are now available from Union Carbide. Introduced several years ago as a $Ti0_2$ extender or replacement in papermaking, "Calidria" Asbestos T-135 is now being used in spray acoustic and other interior coatings, and as a combination filler-reinforcer in non-black rubber compounds. T-135, available in pellets or open fiber, is made from highly-refined asbestos and anatase $Ti0_2$.

A similar product, CG-135, has rutile $Ti0_2$ dispersed along the fibers. This product is being introduced for use in latex paint coatings and similar applications as a partial replacement for $Ti0_2$.

"Calidria" Asbestos products are available from the processing mill in King City, California, from several warehouse locations throughout the United States, and in several foreign countries.

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EXPANSIONS AROUND THE WORLD

ASBESTOLUX MADE IN SIAM

Siam Fiber-Cement Company, a producing company of the Siam Cement Group, is now manufacturing ASBESTOLUX sheets with new machinery recently installed at Bangsue. This is but another expansion endeavor for the company. Last year an asbestos-cement sheet plant was built at Saraburi, providing an added distribution center for customers in the North and Northeast sections of the country.

NEW PLANT FOR HARDIE

James Hardie Asbestos Ltd. officially opened its new plant at Welshpool, Australia, early in June of this year. At about the same time, the company introduced a new all-purpose building board for interior and exterior applications by the building and construction industry. Known as "Hardiflex," the new product is an autoclaved asbestos/cellulose fiber and cement building sheet. The firm is a major operating subsidiary of James Hardie & Company Pty. Ltd., Australia's largest producer of asbestos-cement building materials, pressure pipes, electrical conduit, brake linings and clutch facings.

PIPE & SHEET PRODUCTION IN HUNGARY

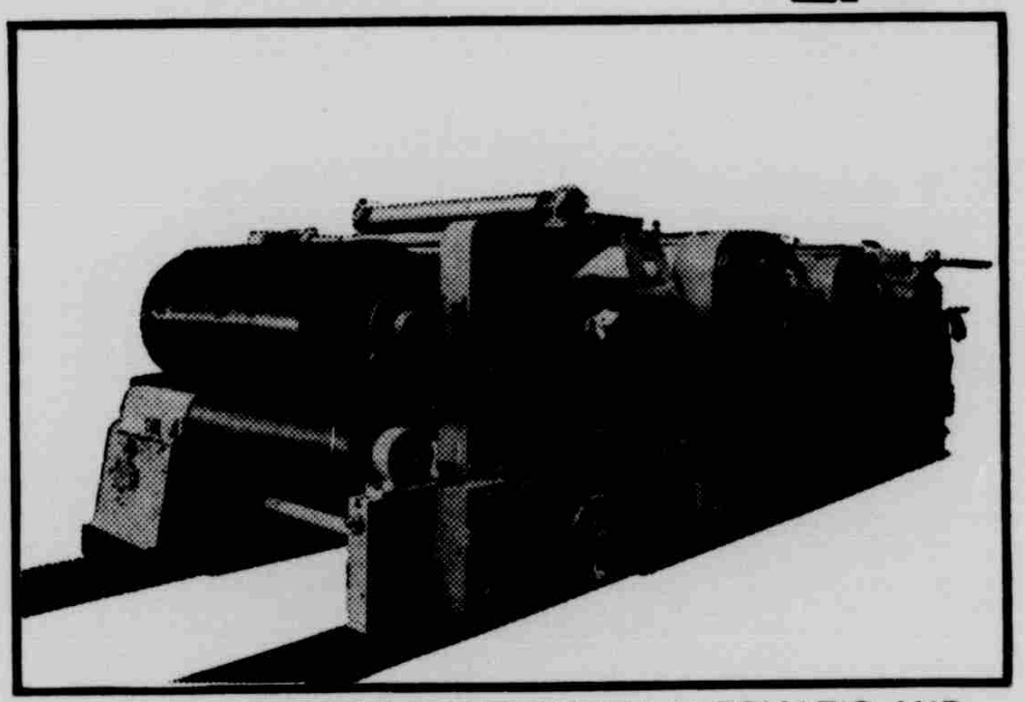
Cement and Lime Works is producting asbestos-cement pipe at its new factory in Selyp, North Hungary. The second largest plant of its kind in the country, it will annually produce some 1200 kilometers of asbestos tubes in various diameters. . . . *The Eternit Group* operates the largest asbestos-cement products factory in Hungary, at Nyergesujfalu, and it has been decided to modernize the facility and to add a new asbestos sheet factory. Production machines will be purchased from the USSR and Italy and the final unit is scheduled to be operational by the end of 1974. Upon completion of the expansion project, about 22 million square meters of asbestos slates will be produced each year.

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ASP/HAC/19

asbestos cement *plants*





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ASBESTOS-BASED PRODUCTS

NEW J-M GASKETING MATERIAL

White Chrysotile asbestos enables a new acid-resistant sheet gasketing material to outperform many competitive products. The new material, just introduced by Johns-Manville Corporation, is a compressed asbestos sheet composed of long asbestos fibers combined with a binder specially formulated to withstand attack by many acids and alkalies found in the chemical industry. J-M research tests showed it to be highly resistant to attack after exposure to various concentrations of nitric acid, hydrochloric acid and sulfuric acid. Called Style No. 86A, the new product is recommended for service temperatures up to 700°F, depending on operating pressure. It has an average tensile strength of 4300 psi, 14% compressibility at 5000 psi and an average load recovery of 45%.

ASBESTOS MAKES THE DIFFERENCE!

Asbestos is receiving accolades from the Streets and Sanitation Division at Anaheim, California. A new water-repellant asphaltic black topping has been applied at 24 intersections throughout the city and the paving crews are impressed with the results. One of the first two experimental paving jobs had not had to be touched since installation in May, 1970. This represents a tremendous cost saving as normally the crews would be repairing damage about once every two months.

Asbestos is what makes the big difference! The new mix contains 2-3% of asbestos fibers. This additive makes the material less susceptible to water erosion, the key factor causing damage to black-topped streets especially at heavily-traveled intersections.

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REPORT ON ASBESTOS-HEALTH STUDY

A report of the three-year study completed last year of the health of employees of Quebec's asbestos mining industry born between 1891 and 1920 has been published in the June 1971 issue of the "Archives of Environmental Health." When the lengths of time of exposure to asbestos dust and the concentrations of the dust during these times were calculated, it was found that about 5% of past and present male employees examined had been subject to high exposures and that in this group the mortality was roughly 20% higher than that to be expected in an unexposed population of corresponding ages. The report notes that this "excess mortality" was accounted for by a rise in the number of deaths due to respiratory and cardiac disease and to cancer of the lung. Among the 95% of the asbestos production workers who did not have high dust exposures, there was little or no excess mortality from these causes.

The McGill University epidemiological research program is being continued at least until 1975.

[A reprint of the above-referenced report is available on request. Ask for "Mortality in the Chrysotile Asbestos Mines and Mills of Quebec," by Dr. J. C. McDonald et al.]

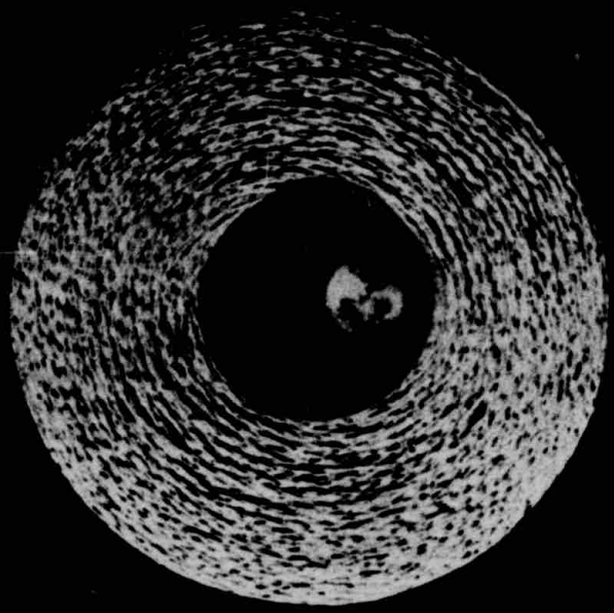
ASBESTOS DUST CONTROLLED

According to Dust Control Equipment Ltd., Thurmaston, England, varying types and sizes of DCE Dalamatic filters are in use at Marinite Ltd.'s board plant in Glasgow, Scotland, serving cyclone-type silos, collecting the dust resulting from the sanding of the asbestos boards, and controlling dust emanating from cutting and trimming operations.

Other devices of special interest are two DCE portable unit dust collectors, developed in conjunction with the Asbestos Industry. The Unimaster UMA40M is designed for use on hand drills, powered hand saws, small sanders and similar hand tools and can be used for vacuum cleaning. The UMA-100M can be applied to dimension saws, band saws and the like.

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WE SET OUR SIGHTS FOR THE MOON AND MADE IT



UNIROYAL

SALA CARAVAN MILL

Sala Maskinfabriks AB, Sala, Sweden, has developed a mobile mill for use at small ore bodies and for pilot studies at mine sites. Designed to handle 100 metric tons/24 hours, the caravan mill consists of four trailers carrying power, crushing, grinding and flotation equipment, respectively. Easily moved by conventional trucks, the trailers are complete with all internal pipework, electric wiring, couplings, hoses, etc., arranged for simple connection between the trailers.

CONVEYOR BOOKLET FROM STONE

Stone Conveyor, Inc., Honeoye, New York, recently issued a 12-page brochure describing a variety of industrial conveyors and conveyor systems. The booklet includes photographs of standard and special models and offers many new ideas in materials handling—from small press parts conveyors to 200-foot elevating radial stackers.

LITERATURE FROM SPROUT, WALDRON

Descriptive literature on its product handling equipment has been issued by Sprout, Waldron & Company, Inc., Muncy, Pennsylvania, including Advance Specification Sheet 260 on the in-line filter for use between blower discharges and conveying line pick-ups; Revised Bulletin 2120 on Hi-Spin^{T} cyclone collectors for use in dust and product handling applications in air conveying systems; Revised Bulletin 2240 on high static pressure fans for pneumatic conveying, cooling and drying; and Bulletin 4370 on the recently-introduced Roto-Shaker^{T}, a dynamically balanced size classification machine developed for high capacity scalping or classification of a product into two, three or four separations.

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ATLAS BLASTING EMULSION

The Explosives Division of Atlas Chemical Industries, Inc., Wilmington, Delaware, published a data sheet to describe "Aquaram," a NCN blasting emulsion with high velocity and detonation pressure. In the system the ingredients are emulsified and the ammonium nitrate is retained within a coating of oil and wax. This intimacy of mixture provides excellent waterproof and explosive reaction characteristics.

NEWS FROM CASE CONSTRUCTION

Construction equipment products will be manufactured by J. I. Case Company, Racine, Wisconsin, in a new facility in Sao Paulo, Brazil. The products will be sold through J. I. Case do Brasil Comercio e Industria Ltda. . . . Case is now marketing two direction-reversing plate-type soil compactors through its new subsidiary, Vibromax Corporation. The Vibromax units are for heavy-duty surface and below-grade compaction and will handle a wide variety of granular and cohesive materials. . . . Major features and specifications of the new Case 2½ yard W20 articulated loader are covered in Catalog CE67871C. The W20 has a 114-horsepower direct-injection Case diesel engine and a full power shift transmission with twin-turbine torque converter. Lift capacity is 21,200 pounds.

PROSSER SUBMERSIBLE PUMPS

Prosser Industries, Anaheim, California, advised it has 45 pump models ranging from ¾ to 40 horsepower for use in open-pit dewatering or gathering and disposal of water. Due to a slim-line design, the pumps can be employed in tandem to increase the available head at a given flow. All models of Prosser pumps will operate submerged in any position.

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NEWS FROM TRADE ASSOCIATIONS

IMM PRESIDENT-ELECT

The Institution of Mining and Metallurgy, London, elected *T. H. B. Lawther* as President for the 1972-1973 Session, succeeding Professor M. G. Fleming. Mr. Lawther will assume the Presidency of IMM in May 1972.

NEW PRESIDENT FOR FMSI

Joseph W. Greenen, with the Grizzly Brake Division of the Maremont Corporation, was elected President of the Friction Materials Standards Institute. Other officers elected are Frank T. Gatke, Vice President; Allan E. Daly, Treasurer; and Edward W. Drislane, Secretary. The companies represented on FMSI's Board of Directors include Abex Corporation, Bendix Corporation, Brassbestos Manufacturing Corporation, Raybestos-Manhattan, Inc., and World Bestos Corporation.

ASTM NATIONAL OFFICERS

The election of the new national officers for 1971-1972 of the American Society for Testing and Materials was announced at ASTM's 74th Annual Meeting. *Dr. Erle I. Shobert II,* Vice President-Technology, Stackpole Carbon Company, was elected President of the Society to serve for a one-year term. The new ASTM Vice President elected for a two-year term is Professor *Rudard A. Jones,* Director and Research Professor of Architecture, University of Illinois, Small Homes Council—Building Research Council. New members of the Board of Directors of the Society elected for three-year terms include James B. Curley, FMC Corporation; Donald I. Finch, Leeds & Northrup Company; James D. McClelland, The Aerospace Corporation; Frederick J. Rarig, Rohm and Haas Company; John S. Wheeler, Ontario Building Materials Ltd.; and Dr. F. Karl Willenbrock, NBS Institute for Applied Technology.

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MARKET CONDITIONS

GENERAL BUSINESS

While it is much too early for statistics to indicate the effects of the Administration's bold moves to halt inflation and get the economy rolling again, there does appear to be a very real change in psychology on the part of businessmen and the general population which, if it continues, could do more than any individual parts of the new program to stimulate general business. Despite the stress being placed on the beneficial effects of increased investment tax credits for business and the hopes that increased capital spending will trickle down to the ultimate consumer with a sort of "multiplying" effect on the way, it is questionable whether industry, operating at less than 75% of capacity, is going to go all out on an expansion and modernization program which can achieve the desired results quickly enough to be of real help to the consumer and particularly to the unemployed person. It would seem that what is required is a set of measures directed at increasing consumer confidence and spending at the earliest possible moment. Since it is already well understood that the end of the wage-price freeze will be followed by some other program of controls and stimulative measures, and top Administration officials are already formulating this "follow-up" program with extremely good cooperation from the Congress, we must just wait and see what measures are finally adopted. In view of the many proposals being considered it would be impossible to make any firm predictions at this time as to future developments of the new "game plan."

ASBESTOS FIBER

The market for most grades of Arizona filter fiber is very strong. While the demand for crudes is slow it is expected to pick up soon and total sales of all grades for the

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year should be well ahead of those for 1970.

[Comments on the asbestos fiber market in Canada and on the international level will be published in the next issue.]

ASBESTOS—MANUFACTURED GOODS

Asbestos Textiles—The demand for asbestos textiles has shown a rather healthy increase over the past few months. Despite reduced government buying the overall picture is good and is expected to remain so for the balance of the year.

Asbestos Brake Lining—The overall market for brake linings continues strong and indications are for a continuance of good business for at least the next few months.

Asbestos Paper—The market for this material has been slow during the second quarter and there are no signs of any marked improvement for the remainer of 1971.

Asbestos Felt—Demand for asbestos felt continues at a very healthy level and prospects for the immediate future are fairly good although some slackening is expected over the longer term.

Asbestos Millboard—There has been no noticeable improvement in the rather depressed market for this material since our last report and there are no indications of a near-term pickup.

High Pressure Insulation—The market for all types of high pressure insulation continues quite strong and prospects are good for the balance of the year.

Asbestos-Cement Shingles, Roofing & Siding—The market for the better grades of roofing shows considerable improvement but siding sales continue to be slow.

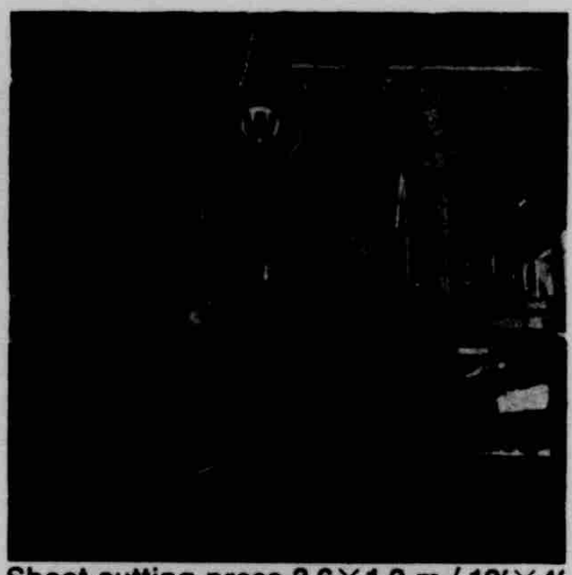
Asbestos Corrugated & Flat Sheets—The present reasonably good market for these materials may be helped, later

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on, by increased construction due to the liberalized investment tax credit.

Asbestos-Cement Pipes—Sales of both pressure and sewer pipes, which have been good since the first of the year, are showing a slow but steady improvement which is expected to continue for some time to come.

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

OMBUDSMAN FOR BUSINESS

Businessmen who need assistance in their dealings with the U.S. Federal Government now have a central office to write or call for information, suggestions, or for registering complaints.

The new service is called "Ombudsman for Business" and all inquiries should be addressed to: Mr. Thomas E. Drumm, Jr., Special Assistant to the Secretary, U.S. Department of Commerce, Washington, D.C. 20230 (telephone: 202-967-3178).

INDUSTRIAL RESEARCH INSTITUTE

A new industrial research institute, the Center for Technological Development (le Centre de Développement Technologique), will be established at l'Ecole Polytechnique, on the campus of the University of Montreal. A $180,000 grant from the Federal Department of Industry, Trade and Commerce will cover the costs of the institute's establishment and administration during the first three years of operation.

CDT will undertake research and development services on a fee basis for small and medium-sized companies and it is expected the Center will eventually be self-supporting. Its specialized areas of research will include technological forecasting, increasing the efficiency of industrial processing systems, development and testing of new building and structural materials, industrial applications of microwave power, and improvements in ore-dressing methods.

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CONSTRUCTION NEWS

AUGUST 1971 posted another gain for new construction contracts throughout the nation. A total of $7,711,530,000 in contracts for future construction raised the seasonally-adjusted Dodge Index (1967=100) to 153 from 151 in July.

Nonresidential building contracts slipped to $2,119,539,000, 8% below last year's amount. Contracts for hospitals and industrial and office buildings declined but gains were reported for store construction and schools.

Residential—Contract value for housing reached $3,255,194,000, a 41% increase over the total recorded for last August and the 5th consecutive month that housing value topped a record $3 billion. While contracts for one-family housing and apartments showed gains of better than 40%, nonhousekeeping residential contracting gained only 6% over last year.

Nonbuilding—A sharp increase in highway contracts plus two huge electric utility projects, one valued at $488 million and the other at $350 million, sent August nonbuilding construction contract value soaring to a near record of $2,336,797,000, 52% above the year-ago total.

Cumulative construction contract value for the first 8 months of 1971 totaled $54,291,288,000: Nonresidential, $17,353,617,000, up 1%; Residential, $22,750,088,000, up 39%; Nonbuilding, $14,187,583,000, up 6%. The 8-month total for 1971 was 16% above that for the same period in 1970. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

JULY 1971 motor vehicle factory sales from plants in the *United States* totaled 611,719 (passenger cars—493,984; trucks and buses—117,735). The cumulative total for the First Seven Months of 1971 was 6,312,244 compared with 5,501,371 for the same period in 1970.

Motor vehicle factory sales from plants in *Canada* totaled 61,165 in July 1971. The cumulative total from January-July 1971 was 799,211 against 793,828 for the like period in 1970. [Automobile Manufacturers Association]

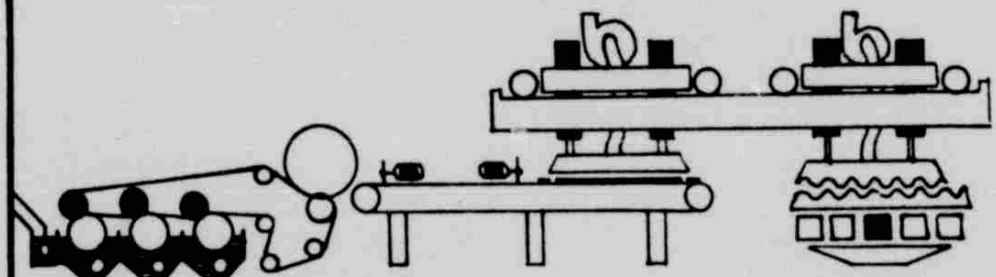
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PRODUCTION—IMPORTS—EXPORTS

Australia—The following statistics were issued by the Bureau of Mineral Resources, Geology & Geophysics, Canberra, and cover the period *January-September 1970.*

Production of Chrysotile asbestos, all in New South Wales, totaled 618 short tons.

Imports reached 50,797 short tons, valued at $7,116,000: Chrysotile, 42,553 tons, valued at $6,146,000; Amosite, 6,820 tons, valued at $855,000; Other Types, 1,424 tons, valued at $115,000.

Exports of All Types and Grades amounted to 355 short tons, valued at $88,000.

Canada—Producers shipments of asbestos during *July 1971* totaled 132,365 short tons (101,073 tons from Quebec plants and 31,292 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for July 1970 was 164,799 tons.

January-July 1971 cumulative total was 892,864 short tons, against 864,181 tons during the same seven-month period of 1970. [Dominion Bureau of Statistics, Ottawa]

Finland—Production of asbestos for the *Year 1970* totaled 13,625 metric tons. This compares with a total of 14,050 tons produced during the previous year. [U.S. Mineral Trade Notes]

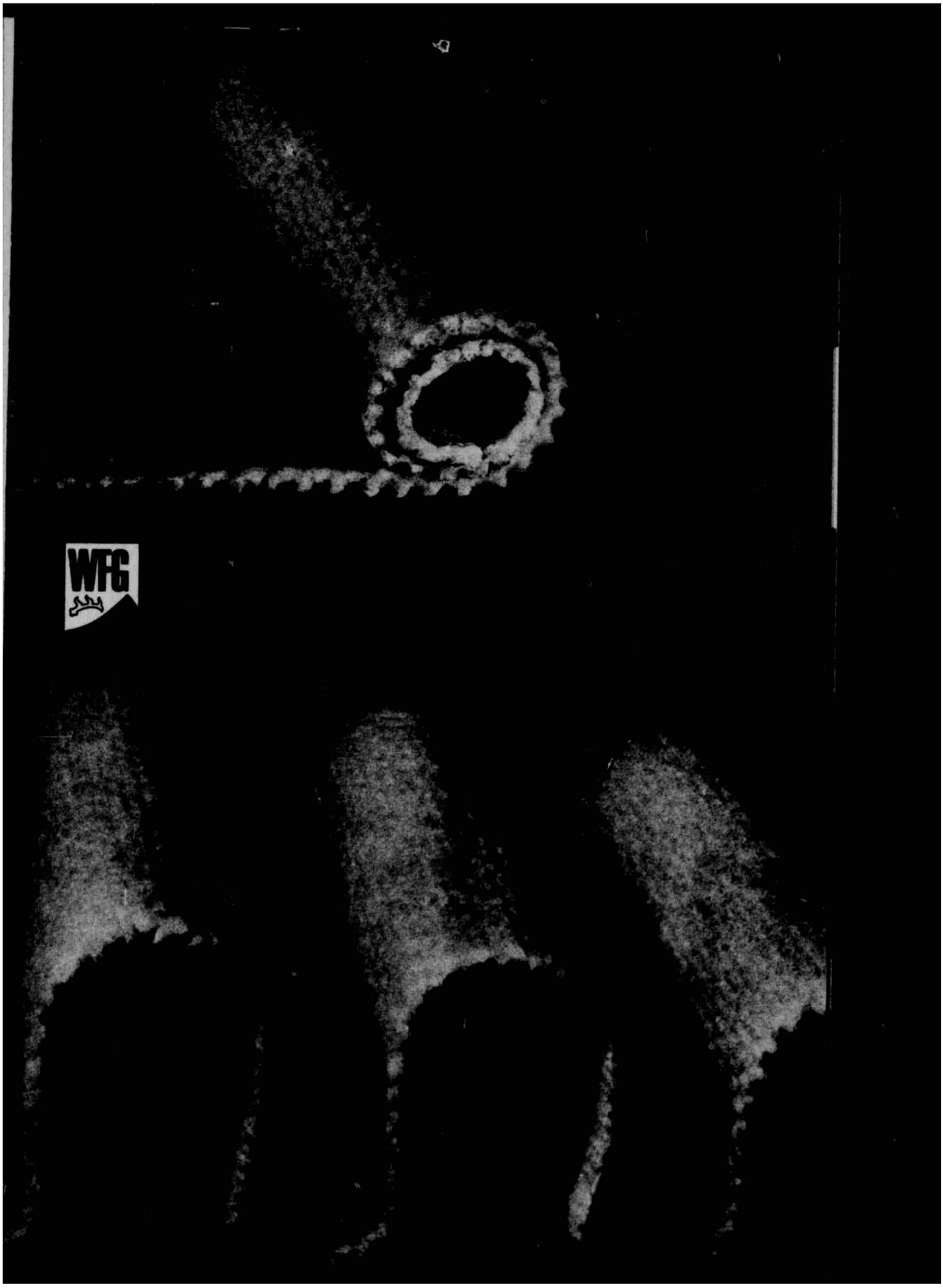
Republic of South Africa—The Department of Mines, Johannesburg, issued the following asbestos production, local sales and export statistics for the *First Quarter 1971.*

Production of asbestos totaled 75,151 metric tons (Amosite, 22,939 tons; Cape Blue, 35,688 tons; Chrysotile, 14,445 tons; Transvaal Blue, 2,079 tons). The total for the same three-month period of 1970 was 66,080 tons.

Local Sales of asbestos reached 9,336 tons, valued at R968,439, compared to 6,775 tons, valued at R612,904 for the previous year. The breakdown for 1971 is: Amosite, 591 tons, R63,791; Cape Blue, 2,910 tons, R398,417; Chrysotile, 5,739 tons, R500,933; Transvaal Blue, 96 tons, R5,298.

Exports of asbestos totaled 52,149 tons, valued at R6,704,855, for the first three months of 1971, broken down as follows: Amosite, 21,185 tons, R2,490,277; Cape Blue, 23,407 tons, R3,484,808; Chrysotile, 6,419 tons, R532,465; Transvaal Blue, 1,138 tons, R197,305. Total exports for the period January-March 1970 were 50,271 tons, valued at R6,220,820.

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Short Tons

Unmanufactured Asbestos:	MAY 1971	JUNE 1971
Amosite, Republic of South Africa	2,381	1,697
Crocidolite (Blue) South Africa	375	904
Chrysotile, Crude, South Africa	55	120
Chrysotile, Spinning Fibers, Canada	572	1,096
Mexico	..	18
Chrysotile, Other, Canada	49,091	59,689
Mexico	..	40
South Africa	192	..
Other Crudes & Fibers, Canada	280	75
Finland	760	226
South Africa	390	135
Swaziland	40	..
	54,136	64,000

May unmanufactured asbestos imports were valued at $6,545,623.
June unmanufactured asbestos imports were valued at $7,178,608.

Manufactured Asbestos Goods:			MAY 1971
Asbestos, Yarn, Slivers, etc.	Lb	295,177	$ 322,464
A-C Pipes, Tubes & Fittings	Lb	10,705,803	456,517
Asbestos-Cement Articles, Other	Lb	1,663,891	196,520
Asbestos Articles, Other		..	170,861
			$ 1,146,362

			JUNE 1971
Asbestos Yarn, Slivers, etc.	Lb	255,861	$ 262,815
A-C Pipes, Tubes & Fittings	Lb	6,263,183	280,185
Asbestos-Cement Articles, Other	Lb	1,317,059	210,334
Asbestos Articles, Other		..	154,222
			$ 907,556

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EXPORTS FROM U.S.A.

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

Unmanufactured Asbestos:

Crude & Spinning Fibers ..... s. tons	979	$ 179,781
Non-Spinning Fibers ..... s. tons	1,496	219,334
Waste & Refuse ..... s. tons	2,528	311,113
	5,003	$ 710,228

Manufactured Asbestos Goods:

A-C Shingles & Clapboard ..... Lb	2,380,933	$ 243,666
Other Asbestos-Cement Articles..... Lb	525,662	93,350
Asbestos Gaskets ..... Lb	36,677	60,522
Asbestos Packing ..... Lb	380,764	538,609
Asbestos Heat or Sound Insulation	..	318,121
Asbestos Textiles & Yarns ..... Lb	1,083,136	310,886
Asbestos Protective Clothing	..	5,594
Mfrs. Other Than Friction Materials	..	184,172
Clutch Facings & Linings for Auto. Use.. No	134,962	113,306
Clutch Facings & Linings, Other ..... No	15,564	11,024
Brake Linings for Automotive Use ..... Lb	635,039	394,688
Asbestos Brake Linings, Other ..... Lb	396,540	301,560
		$ 2,575,498

EXPORTS FROM CANADA

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

Short Tons

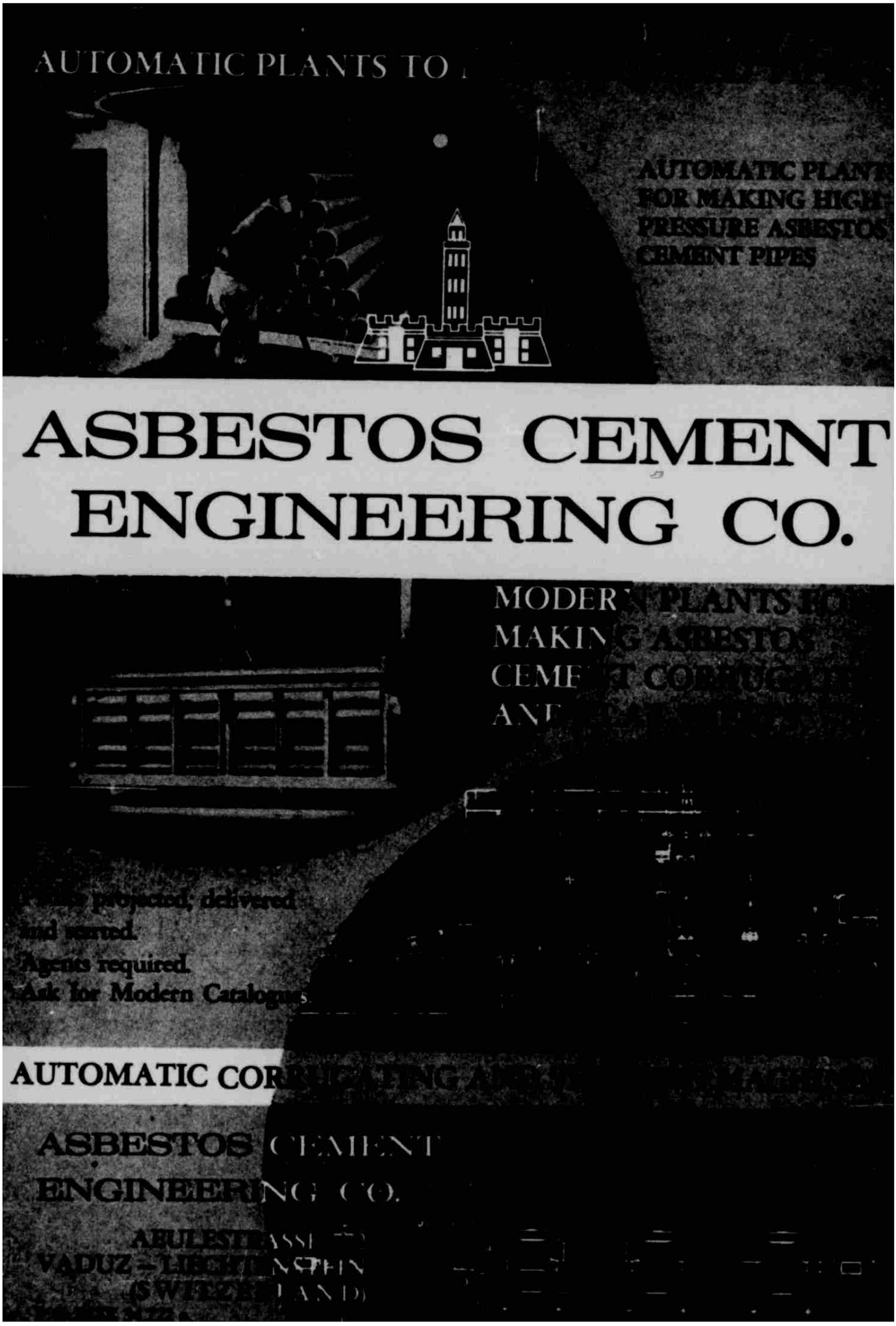
Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	542	18,023	17,044
Eastern Europe	..	33	730	465
Middle East	..	..	2,599	783
Africa	..	..	1,240	50
Asia	..	101	4,528	4,552
Oceania	..	..	2,223	321
So. & Cen. America & Antilles	..	162	6,970	2,508
United States	..	941	15,900	37,597
	..	1,779	52,213	63,320

The total amount of unmanufactured asbestos exported in *May 1971* was 117,312 short tons, valued at $16,039,000.

Manufactured Asbestos Goods:

Asbestos Brake Lining & Facings	$ 109,000
Asbestos-Cement Building Materials	165,000
Asbestos Basic Products, Other	289,000
	$ 563,000

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MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 3: Definition of Terms, Grades & Specifications

"Asbestos" is a name applied to a group of naturally fibrous minerals. The principal variety is Chrysotile, a hydrous magnesium silicate having the theoretical formula $3MgO.2SiO_2.2H_2O$. Other commercial varieties are Amosite, a complex iron-magnesium silicate $(MgFe)SiO_3$.1-5%H_2O and Crocidolite, a sodium-iron hydrous silicate, $NaFe(SiO_3)_2.FeSiO_3.H_2O$. Of minor importance are Tremolite, $Ca_2Mg_5Si_8O_{22}(OH)_2$; and Anthophyllite, $(MgFe)_7Si_8O_{22}(OH)_2$.

Chrysotile, the principal variety of commerce, is graded according to fiber length. According to the Canadian classification, fibers 3/8" long or longer are classed as crudes and comprise Groups 1, 2 and 3. Group 3 is the usual product obtained from the crude and is used largely for spinning fiber. The succeeding Groups have progressively shorter fibers. Group 4 is designated as shingle stock; Group 5, paper stock; Group 6, waste stucco and plaster; and Group 7, refuse or shorts. Most of these Groups are divided into several sub-groups. Such groupings comprise the commercial specifications. The consumer designates the Grade desired.

In Arizona fiber, that which remains on the 1/2" screen is classed as No. 1; that which passes 1/2" mesh and remains on 1/4" mesh, No. 2; that which passes 1/4" mesh and remain on 1/8" mesh, No. 3; and that which passes 1/8", No. 4. No. 1 and No. 2 are classed as spinning grade if the fibers are not too harsh. Some spinning fiber is obtainable from No. 3.

Grades may be blended to satisfy special needs. For some uses the chemical composition is important. Thus, for electric insulation an upper limit for the iron content may be specified. [Details on the methods of classification used in the principal producing countries are discussed in "The Asbestos Industry," by Dr. Oliver Bowles; U.S. Bureau of Mines Bulletin No. 552, 1955.]

NEXT MONTH—CURRENT TECHNOLOGY

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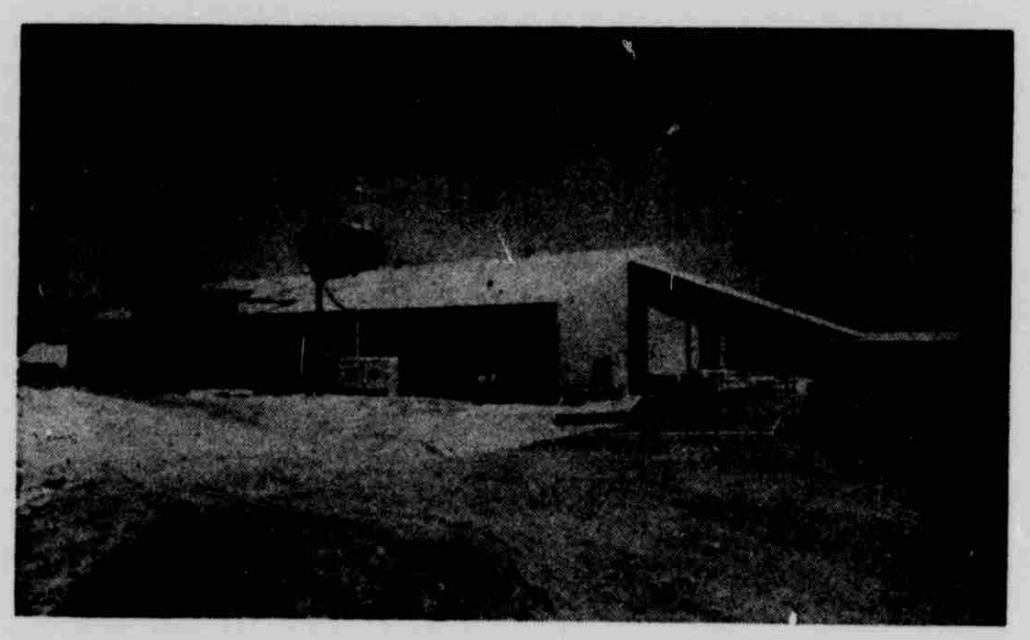
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ASBESTOS IN RHODESIA

Gladstone Mines (Pvt.) Ltd. has applied for an Exclusive Prospecting Order, according to the June 1971 issue of the Chamber of Mines Journal. Concerning asbestos, chromium, nickel and platinoids, the prospecting will be done on a twelve-square-mile area located approximately 31 miles from Darwendale.

The same issue of the CMJ also listed the forfeiture of an EPO issued to **Bend Asbestos Ltd.** concerning the right to prospect for asbestos and other minerals in the Gwelo District.

MINE DEVELOPED IN ARIZONA

Jaquays Asbestos Corporation, Phoenix, Arizona, reports that during the development of its Chrysotile Mine the new ore faces are showing as much as 6″ of solid fiber, with one band of exceptionally soft fiber 3″ long. Normally, 2″ of total fiber in a 6-foot face is considered to be good ore. It is also of interest that the total iron content in the new ore is only 0.2% compared to past averages of from 0.4-0.5%.

PROTOTYPE MILL IN OPERATION

Pacific Asbestos Ltd., Montreal, Canada, through its Australian interests, has begun operating the prototype mill at its asbestos property at Barraba, N.S.W., Austrialia. The single-line mill is processing 50-ton batches per shift to provide bulk samples for production testing by customers and also to train employees. Commissioning date for the main mill is December 17 of this year. Woodsreef Mines Ltd., an Australian company in which Pacific has a 58.57% controlling interest, is developing the deposit through its wholly-owned subsidiary, Chrysotile Corporation of Australia Pty. Ltd. [The Northern Miner]

NEW OFFICERS FOR MEXICAN FIRM

Compania Nacional de Asbestos, a company formed in 1969 by the Mexican Government (see November 1969 ASBESTOS) now has a Board of Directors, appointed August 2, 1971. The President of the Board is Lic. Guillermo Martinez Dominguez and it is expected that a viability study by a Canadian and Mexican consulting firm will soon begin. CNA was formed to mine and process Chrysotile asbestos in the Novillo Arroyo area of Tamaulipas.

ASARCO AT GOLDEN AGE PROPERTY

Asarco Exploration Company of Canada Ltd. has commenced drilling at the asbestos prospect of Golden Age Mines Ltd., located in the Kingsbury area, near Sherbrooke, Quebec. The claims cover about 2400 acres and Asarco is presently working on from 200-300 acres. The cost of the stripping and trenching program just completed is estimated at $100,000. The claims are held by Kingsbury Asbestos Company, a subsidiary of Golden Age. [The Northern Miner]

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LATEST ASBESTOS PRICES

ARIZONA

(AS OF AUGUST 1, 1968) — **PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA**

	U.S. DOLLARS
No. 1 Crude	$1410.00 — $1650.00
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

(AS OF JULY 1, 1971) — **PER TON OF 2000 LBS., F.O.B. MINE**

	CANADIAN CURRENCY
Crude No. 1	$ .. — $1615.00
Crude No. 2	.. — 875.00
No. 3 (Spinning Fiber)	412.00 — 675.00
No. 4 (Asbestos-Cement Fiber)	227.00 — 383.00
No. 5 (Paper Fiber)	164.00 — 195.00
No. 6 (Paper & Shingle Fiber)	.. — 120.00
No. 7 (Shorts)	52.00 — 100.00

CASSIAR

(AS OF JANUARY 1, 1971) — **PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.**

	CANADIAN CURRENCY
AAA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	$ 877.00
AA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	697.00
A Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	529.00
AC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
CC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
AK Grade (Asbestos Cement Fiber/Canadian Gp 4)	263.00
CP Grade (Asbestos Cement Fiber/Canadian Gp 4)	248.00
AS Grade (Asbestos Cement Fiber/Canadian Gp 4)	228.00
CT Grade (Asbestos Cement Fiber/Canadian Gp 4)	223.00
AX Grade (Asbestos Cement Fiber/Canadian Gp 5)	208.00
CY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00
AY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00

VERMONT

(AS OF JULY 1, 1971) — **PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT**

	U.S. DOLLARS
Grade 4T (Fiber)	$ ..—$ 220.00
Grades 5D thru 5R (Fiber)	159.50— 187.50
Grade 6D (Waste)	..— 116.00
Grades 7D thru 7T (Shorts)	49.50— 97.00
Grade 7TF Floats (Shorts)	..— 43.50
Hooker No. 1 (Packaged in 50-lb. Woven Poly. Bags)	.—440.00
Hooker No. 2 (Packaged in 100-lb. Woven Poly. Bags)	.—220.00

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BIRTHDAY GREETINGS TO . . .

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

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

A. V. Richardson, General Manager, Humes Ltd., Melbourne, Victoria, Australia, November 17.

E. W. Russell, Operations Manager, Thermoid Division, H. K. Porter Company, Inc., Bennettsville, South Carolina, November 17.

Thornton R. Smith, Vice President for Finance, Johns-Manville Corporation, New York City, November 19.

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

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

Philip E. Holmes, President, Pacific Asbestos Corporation, San Francisco, California, November 20.

A. Procter, Chairman & Managing Director, Newalls Insulation & Chemical Co. Ltd., Washington, Durham, England, November 20.

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

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

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

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

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

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

Russell L. Pellett, Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, November 27.

John G. Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.

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

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

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

Frank S. Williams, Product Manager-Asbestos, H. K. Porter Company, Inc., Charlotte, North Carolina, December 3.

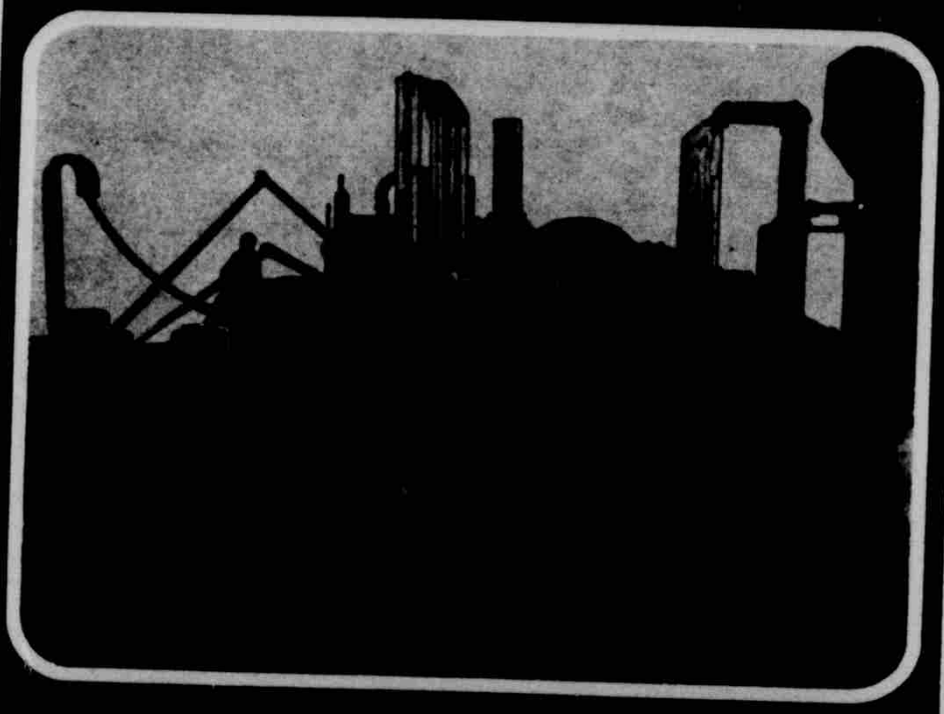
George H. Martens, Jr., Vice President-Corporate Marketing, Johns-Manville Corporation, New York City, December 5.

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

David G. Colwell, Treasurer-International, Johns-Manville Corporation, New York City, December 10.

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NOTES FROM 1970 ANNUAL REPORTS

AMERICAN SMELTING & REFINING CO.

Exclusive of extraordinary items, net earnings of American Smelting and Refining Company for 1970 were $88,803,000 or $3.16 per share, compared to $99,394,000 or $3.42 per share in 1969. The sale of shares of General Cable Corporation stock in 1970 resulted in an extraordinary gain of $31,545,000 which was partially offset by write-offs of $8,630,000. Capital expenditures were $68,723,000 compared with $25,048,000 in the previous year.

Asarco is committed to a positive program of air-quality control. But, like all business, it must operate within limits which are technically feasible and economically tolerable on a plant-by-plant basis. In 1970 the company's capital expenditures for air-pollution control facilities totaled nearly $13 million.

Exploration activities to find new ore supplies were at the highest level in the company's history. Geologic examinations and exploration projects were carried out in 19 countries on five continents.

Lake Asbestos of Quebec Ltd.

Production of asbestos fiber by Lake Asbestos at Black Lake, Quebec, set a new record in 1970. Ore reserves are being maintained and mine development is progressing satisfactorily. Milling refinements are being made to increase production of grades that are suited to growth markets. The long-term outlook for asbestos is encouraging and the market forecast for 1971 is good, with most of the production already committed.

Cement Asbestos Products Company, of which Asarco owns 49% and The Mead Corporation owns 51%, had a difficult year due to a three-month strike at the plant at Ragland, Alabama. The new plant at Van Buren, Arkansas, has been producing plastic pipe and in January 1971 began the production of asbestos-cement pipe.

BBA GROUP LTD.

Sales for BBA Group Limited reached a new record of £36,371,450, an increase of 18.2% over 1969. Sales of companies in the United Kingdom increased by 21.5% and of overseas companies by 14.7%. Direct exports from the U.K. at £4,406,059 (an increase of 16.6%) and sales of overseas companies at £17,101,939 together accounted for 59.1% of Group sales. 1970 net profit after taxes was £1,688,174 against £1,692,494 in 1969. After deducting minority interest, the profit attributable to shareholders was a record £1,457,975. Capital expenditure amounted to £2,463,205.

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Friction Materials

BBA's brake liners, disc pads and clutch facings continued to be manufactured principally in the Group's factories in the U.K., West Germany and Spain and in Australia by its associated company, Bendix Mintex Pty. Ltd. In addition BBA has licensees in the United States, Japan and other countries. Troubles in the U.K. motor manufacturing industry had a depressing effect on the original equipment business for friction materials. Fortunately Mintex Ltd. succeeded to a large extent in offsetting the loss of OEM business by increasing sales on the replacement side. In Germany, Textar GmbH remained strong in the domestic market. As with many other subsidiaries, Frenosa y Embragues S.A., Spain, showed the tendency to rising sales without increase in profit. In Australia, however, Bendix Mintex Pty. Ltd., an associated company, reported a substantial improvement in both profit and sales.

Asbestos & Belting Products

These products include belting and webbings for conveying and other purposes, and asbestos yarn, cloth, tape, jointings and packings. Scandura belting is manufactured in the Group's factories in the U.K. and the U.S. and at the factory of one licensee abroad, but most of BBA's asbestos products are made at factories in the U.K.

Scandura Ltd. sales of asbestos and belting products were the highest in the company's history and notably so in export markets. Rapidly escalating costs, however, restricted a corresponding growth in profit.

Sales and profits for Scandura Inc., Charlotte, North Carolina, were higher than in the previous year, the slight decrease in sales of conveyor belting for mining applications being fully compensated by additional sales of belting for industrial purposes and of other products.

ACTION ON STANDARDS

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

ACMA (The Asbestos Cement Manufacturers' Association, London)—completed preparation of the changeover program to metric dimensions affecting various asbestos-cement products [Metric product data sheets are available from ACMA or its member companies]

CGSB 51-GP-9b—Standard for Thermal Insulation; Mineral Fiber; Sleeving for Piping and Round Ducting; for use with surface temperatures below 400°F (203°C), essentially but not restricted to land installations. [Editorial revisions effective April 1971; Canadian Government Specifications Board; 25c]

IS 459 1970—Indian Standard Specification for Unreinforced Corrugated and Semi-Corrugated Asbestos-Cement Sheets. [Second Revision; Indian Standards Institution; Rs. 3.50]

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ASBESTOS STOCK QUOTATIONS

CLOSE—SEPTEMBER 28, 1971

Abitibi Asbestos	*$3.10	Gulf & Western	26⅛
Advocate Mines	*$1.80	G&W (pfd 1.75)	90
Allied Mining	$3.25	G&W (pfd 3.50)	109½
Asarco	21⅞	G&W (pfd 3.87)	55½
Armstrong Cork	42	G&W (pfd 5.75)	66⅞
Armst Cork (pfd 3.75)	54½	Illinois Central	38¾
Asbestos Corporation	*$30.75	Ill. Central (pfd 3.50)	63¾
Bendix	43	Johns-Manville	39¼
Bendix (pfd 3)	64¼	Maremont	26⅜
Carlisle	18¾	National Gypsum	23⅝
Cassiar Asbestos	*$20.25	Natl Gypsum (pfd 4.50)	70⅝
Cerro Corporation	15⅜	Pacific	*$1.40
Certain-teed	31¾	Panacon	3½
C-teed (pfd .90)	31¾	Porter (pfd 5.50)	71¼
Conwest	*$8.30	Raybestos-Manhattan	32
Flintkote	29¼	Royal Industries	13⅝
F-kote (pfd-A 4.50)	79	Unarco	16⅞
F-kote (pfd-B 2.25)	35⅝	Union Carbide	45¼
GAF Corporation	18¾	Uniroyal	20⅜
GAF (pfd 1.20)	25¼	Uniroyal (pfd 8)	102⅛
Garlock	20⅛	United Asbestos	4¾
Grace	30⅛		

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

Germany—importer-distributor-manufacturer interested in agency agreements for all Grades of Chrysotile asbestos fiber; contact Mr. N. von Badewitz, Carl E. Brandes, Walderseestrasse 4, 3000 Hanover.

Germany—distributor-manufacturer interested in the direct purchse of asbestos textiles, asbestos gaskets and rubber gaskets; contact G. W. Schauenburg & Sohn GmbH, 1 Sandstrasse, 433 Muelheim/Ruhr.

Germany—importer-distributor seeking the direct purchase of asbestos-cement shingles, clapboard and balcony facings; contact STAKUSIT-Stahl-Kunststoffe, 10 Haupastrasse, 4307 Kettwig.

Honduras—importer-distributor-agent seeking agency agreements (exclusive representation) for acoustic ceiling tiles; contact Nacional Comercial, S.A. de C.V., Apartado Postal 347, Tegucigalpa, D.C.

Italy—importer-agent-wholesaler looking for agency agreements concerning asbestos, asbestos-metallic and asbestos-rubber packing (advanced materials); contact Temperani, Bianca, 8-10 Guido Monaco, 50144 Florence.

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MEN ON THE MOVE

AMERICAN SMELTING & REFINING COMPANY

William K. Murray has been appointed Director of Advertising and Public Relations, stepping up to the corporate post from Manager of Marketing of Asarco's subsidiary, Enthone Incorporated. His office will be at Asarco headquarters in New York City.

ATLAS ASBESTOS COMPANY

Donald R. Stevenson was appointed Western Sales Manager-Construction Materials. He will be based at the Western Branch Office, New Westminster, B.C., and will be responsible for promoting sales of certain asbestos-cement materials in Western Canada and Western United States.

THE BAUER BROS. CO.

Richard L. Lawson, formerly Industrial Sales Manager for Bauer, a subsidiary of Combustion Engineering, Inc., assumed the newly-created post of Marketing Manager. He will be involved in market research, advertising, sales promotion, production planning and general marketing administrative services for all C-E Bauer Sales Divisions.

T. G. Phillips, with C-E Bauer since 1962, succeeds Mr. Lawson as Industrial Sales Manager.

THE FLINTKOTE COMPANY

Sherman R. Locke is now Vice President of Flintkote's Diamond Cement Division in Ohio. During his 15 years with the company he has held a series of sales positions with the Calaveras Cement Division.

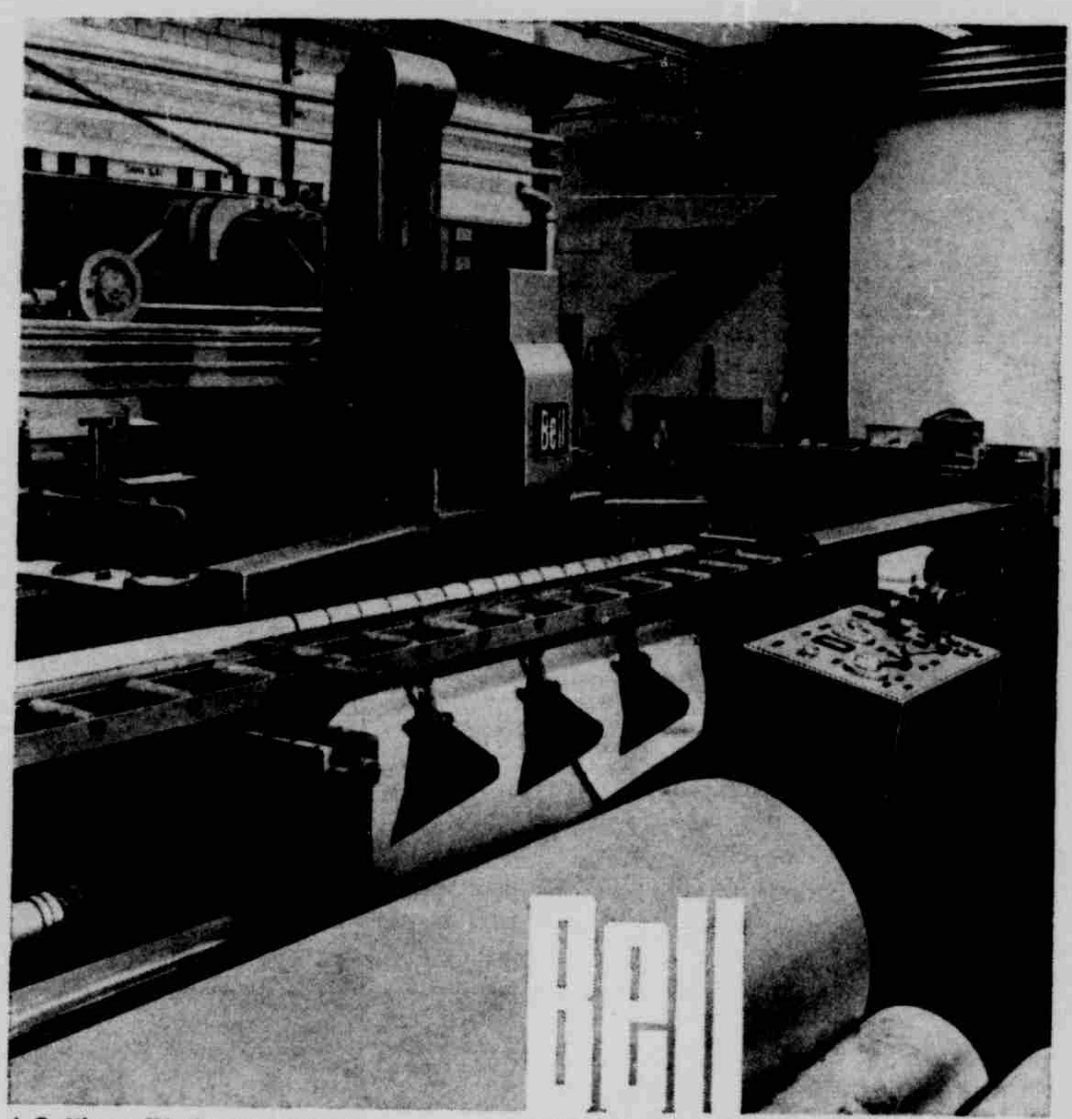
JOHNS-MANVILLE CORPORATION

William P. Gibbons has filled the newly-established position of Director of Divisional and Corporate Advertising. He will supervise advertising, sales promotion, product publicity and creative services and will be responsible for advertising budgets and agency relations. Mr. Gibbons was also appointed a Vice President of J.M Sales Corporation.

Walter F. Goodwin, as the new Director of Public Relations, will be responsible for directing and supervising all public relations activities of the company including corporate press relations, financial and stockholder relations, community relations and publications. Prior to joining J-M in 1956 he was with the Univac Division of Sperry Rand Corporation.

Douglas O. Cooke was appointed Director of Advertising for the Architectural & Engineered Products and the Residential Building Products Divisions. A native of Manitoba, Canada, he began his career with J-M as a senior copywriter in 1953.

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▲ Cutting-off lathe for sockets, working length 2 × 2500 mm. Socket outside diameter: 110—1200 mm.

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BOOKS, ARTICLES & PAPERS

Rock and Soil Mechanics—series of five books titled "Bins and Bunkers for Handling Bulk Materials" ($20.00), "The Science of Rock Mechanics" ($25.00), "Engineering Geology and its Application in Civil Engineering Projects" ($20.00), "State-of-Stress Measurements in Rock Masses" ($25.00) and "Slope Stability in Soil and Loose Rock" ($25.00). [$80.00 for the complete set; available through ASBESTOS or from Trans Tech Publications, P. O. Box 2981, Cleveland, Ohio 44116]

1971 Mining Annual Review—reviews the mining industry's progress over the past year together with the short-term outlook; includes a chapter on "Asbestos" that contains data on production, markets, usage and environment. [£3 or $7.25 U.S.; order through ASBESTOS or from The Mining Journal Ltd., 15 Wilson Street, Moorgate, London EC2M 2TR, England]

Industrial Minerals/Environmental Control—two papers presented at the 73rd Annual General Meeting of CIM of special interest to the Asbestos Industry are: "An Outsider Looks at the Problems of Appraisal of Industrial Mineral Deposits," by J. F. McOuat & R. D. Lawrence, Vice Presidents of Watts, Griffis & McOuat Ltd. (July 1971 CIM Bulletin) and "Environmental Control in the Asbestos Industry of Quebec," by J. R. M. Hutcheson, President of Canadian Johns-Manville Co. Ltd. (August 1971 CIM Bulletin). [reprints of most Technical Papers are available from The Canadian Institute of Mining and Metallurgy, 1117 Ste. Catherine Street West, Montreal 110, Quebec, Canada; $2.00 to non-members]

NASA TECH BRIEFS—The following Tech Briefs announce new technology derived from the U.S. Space Program and are issued by the National Aeronautics and Space Administration to encourage commercial application. Tech Briefs are available on a subscription basis from the National Technical Information Service, Springfield, Virginia 22151. Requests for individual copies or questions relating to the Tech Brief Program may be directed to the Technology Utilization Division, NASA, Code UT, Washington, D.C. 20546.

70 10546—New Type of Nonflammable Paper, by G. K. Armstrong of Dynatech Corporation under contract to the Manned Spacecraft Center.

70 10630—Bonding of Strain Gages to Fiber Reinforced Composite Plastic Materials, by T. T. Serafini, M. P. Hanson & C. C. Chamis of the Lewis Research Center.

70 10648—A Computer Program for Evaluating Propellant Heating & Radiation Dosage to Crews of Nuclear-Powered Rocket Vehicles, by G. P. Lahti of the Lewis Research Center.

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NEWS

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Australian 291,156—In the manufacture of microporous sheets for use in filtering liquids, a base sheet consisting of asbestos, a binder and a dispersant is coated with additional asbestos and dispersant under conditions to produce a sheet of optimum pore diameter and voids volume; D. B. Pall & C. A. Keedwell; assigned to Pall Corporation, May 22, 1969; 31 pages.

Australian 291,194—An insulation material for metal ingot casting molds comprises preferably about 2.5% by weight of asbestos, 0.5% of glass fiber, 5% of a powdered phenolformaldehyde resin, 10% of ball clay and the remainder silica flour; C. Washbourne; assigned to Foseco International Ltd., May 20, 1969; 6 pages.

Canadian 873,323—In the extraction of asbestos short fibers from tailings from an asbestos ore mill, the waste is dried by whirling it through a stream of hot gas and the dried material is comminuted in an impact breaker to separate substantially all of the remaining fibers from the gangue and the fibers from each other; E. Andreas; assigned to Hazemag Hartzkleinerungs-und Zementmaschinenbau GmbH, June 15, 1971, 9 pages.

South African 3,434(1969)—A stabilized well drilling mud consists of a dispersion in sea water of 20-50% by weight of the solids of Grade 7M Chrysotile asbestos, 40-70% of calcium bentonite, 0.5-1.5% of a detergent and optionally small percentages of a polysaccharide and/or an alkaline earth compound; H. O. P. Kaspar; assigned to G & W Holdings (Pty.) Ltd., May 22, 1970; 11 pages.

U.S. 3,585,052—A heat-resistant paint for steel structures comprises optimum proportions of asbestos, kaolin or potter's clay, silica sand or silica flour, a water-soluble glass, one or more pigments such as red iron oxide or yellow titanium dioxide, rosin and an aqueous solution of sodium hydroxide; J. F. Dannewald, A. S. Dannewald, R. I. Strader & R. H. Dannewald; June 15, 1971; 4 pages.

U.S. 3,586,639—In the full defiberization of asbestos ore pencils, the pencils are sheared in a solution of an organic acid having not more than 6 carbon atoms along with a long-chain cationic reagent; R. F. House; assigned to National Lead Company, June 22, 1971; 8 pages.

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CALENDAR OF EVENTS

American Council of Independent Laboratories—Annual Meeting, Lago Mar Hotel, Ft. Lauderdale, Florida; *October 25-28.*

The Producer's Council—50th Anniversary Meeting, Mayflower Hotel, Washington, D.C.; *October 26-27.*

Underground Mining Environment Conference—University of Missouri-Rolla, Rolla, Missouri; October *27-29.*

Thermal Expansion Symposium—sponsored by the University of Toronto and Corning Glass Works, Corning, New York; *October 27-29.*

Stability in Open-Pit Mining—Symposium & Specialty Seminars, Center for Continuing Education, University of British Columbia, Vancouver, B.C., Canada; *November 1-5.*

National Insulation Contractors Association—16th Annual Convention, Convention Center, Williamsburg, Virginia; *November 7-10.*

Midwest Roofing Contractors Association—22nd Annual Convention, Muehlebach Hotel, Kansas City, Missouri; *November 7-10.*

Society of Engineering Science—9th Annual Meeting, Rensselaer Polytechnic Institute, Troy, New York; *November 8-10.*

Sensing of Environmental Pollutants Conference—jointly sponsored by ACS, NASA, IEEE, ISA and AIAA, Cabana Hyatt House, Palo Alto, California; *November 8-10.*

Reliability Engineering & Management Institute—9th annual event, Honeywell Information Systems, University of Arizona, Tucson, Arizona; *November 8-12.*

Computer Methods in Optimum Structural Design—University of Missouri-Rolla, Rolla, Missouri; *November 8-12.*

International Industrial Safety & Factory Hygiene Congress & Exhibition—Dusseldorf, Germany; *November 10-13.*

Western Insulation Contractors Association—Annual Meeting, Royal Lahaina Hotel, Maui, Hawaii; *November 13-20.*

U.S. Solo Exhibition—featuring printing & graphic arts equipment, business equipment and computers, machine tools and machinery for the construction industry; Sao Paulo, Brazil; *November 16-23.*

BATIMAT—8th International Building Exhibition, Exhibition Center, Porte de Versailles, Paris, France; *November 18-28.*

Asbestos Magazine, 1971, October 1971
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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

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Remember When?

(October 1921 ASBESTOS)

New Advertiser: Braiding & Packing Works of America, Inc.

A leading article by W. C. Freeman of The Yawman & Erbe Mfg. Co. described the results of extensive tests on the fire resistance of the company's "Fire-Wall Filing Cabinets." The walls of these cabinets consisted of two steel sheets separated by one layer of flat and one layer of corrugated asbestos paper. The tests, conducted on a scientific basis, showed the Fire-Wall Cabinet offered much better and longer protection to the contents than the ordinary cabinet with single sheet steel walls, when exposed to high temperatures in a furnace.

Reports from California indicated the discovery of several very large deposits of asbestos comparing favorably in chemical characteristics with Canadian Chrysotile. Whether fiber length is great enough to make the material commercially usable was yet to be determined.

The Regal property, consisting of about 650 acres of asbestos-bearing ground in Gila County, Arizona, was incorporated as The Regal Asbestos Mines, Inc., with a capitalization of $100-000 and operations, formerly halted, were expected to resume at an early date.

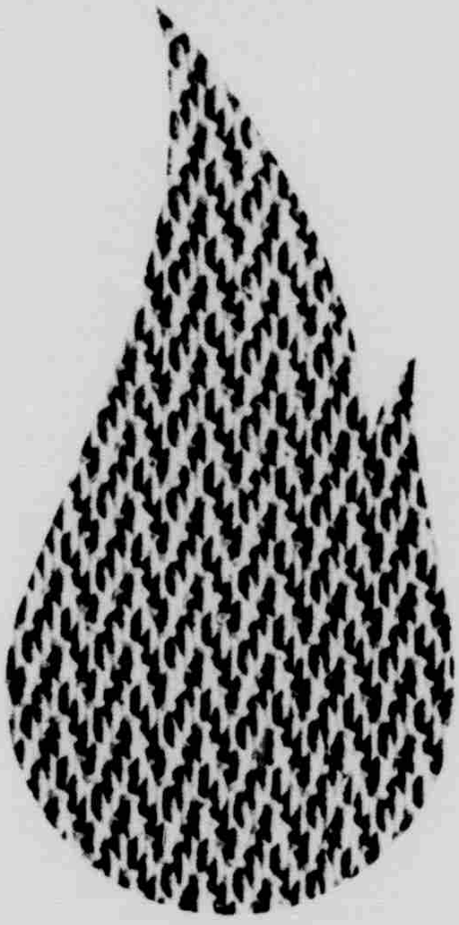
An aerial tramway, approximately one mile long, was placed in operation by Asbestos Mines, Ltd., East Broughton, Quebec. With a capacity to carry 500 tons of rock per day and the capability of operating around the clock in almost any kind of weather, the tramway should be a most economical means of transporting rock to the mill.

The Bureau of Mines, Washington, D.C., announced completion of a four-reel motion picture film showing the asbestos mines and processing plants of the Johns-Manville Company. The film was made available for presentation by clubs, engineering societies and other organizations.

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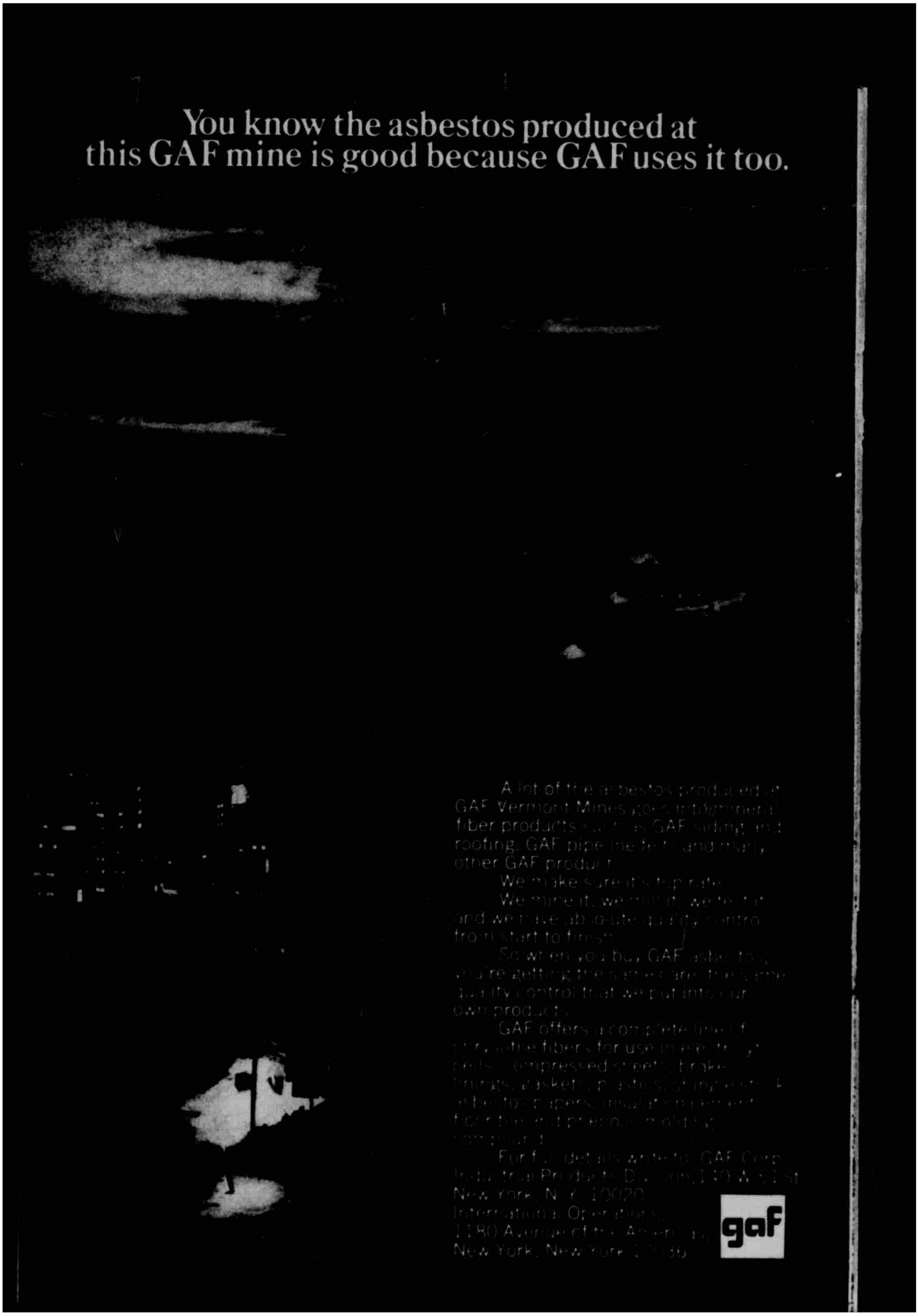


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