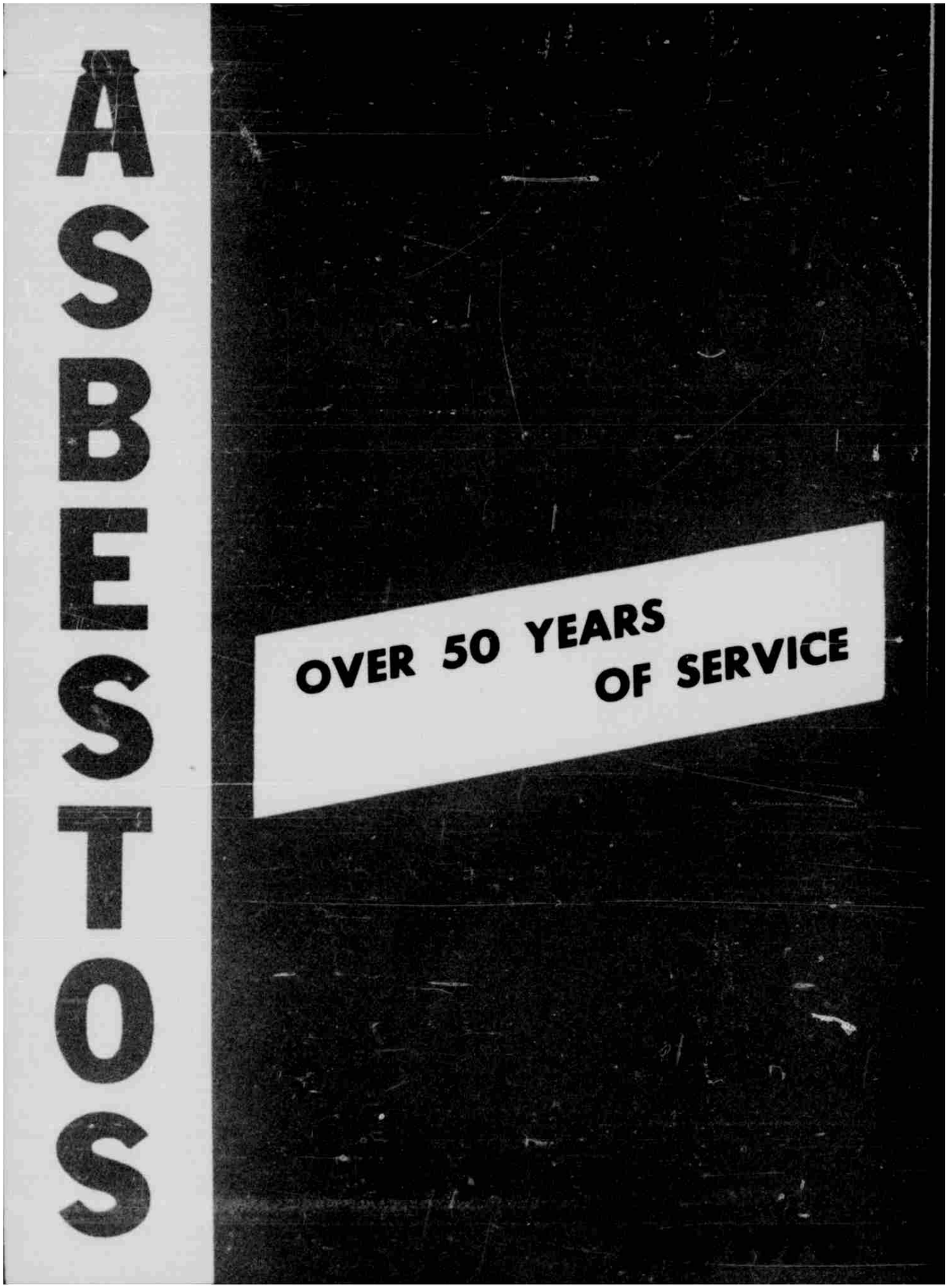

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ASBESTOS

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BELGIAN BUILDING MAKES USE OF UNIQUE ASBESTOS PRODUCTS

Sponsored by International Asbestos-Cement Review, a seminar on "Processes of Construction" was held in 1968 at St. Gall, Switzerland, and was attended by representatives of companies from many countries in which asbestos-cement products are being manufactured. A most interesting presentation (vis. AC 53, pages 5-8) by J. Carette, architect of S.A. Eternit, Kapelle-op-den-Bos, Belgium, described the unique materials and methods of construction used in erection of a prototype building at Wilrijk, on the Brussels-Anvers Expressway. Portions of this presentation, of particular interest to our readers, are published herewith.

The three-story building, measuring 10x36 meters, was designed by an architect, Pierre Dierckx. With the cooperation of the technical branch of S.A. Eternit, materials were selected and construction methods devised to assure the most satisfactory building for the purpose intended, to be built within budgeted cost figures and to be completed in not more than six months.

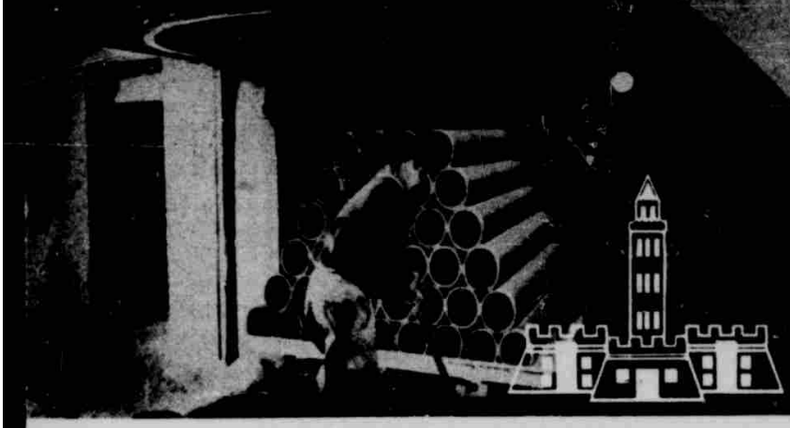
The framing is of rolled steel sections, rigidly connected. Its construction is more or less conventional except for the addition of a multiplicity of special brackets on the exterior framing members to provide for attachment of the prefabricated components of the curtain walls.

The load-bearing flooring members are hollow, extruded asbestos-cement planks resting on steel beams, but separated from them by neoprene strips to achieve satisfactory acoustical insulation. The planks are 80mm thick and the span between beams is 1.80 meters. With this arrangement the breaking point of the planks is in excess of 4000 kg per square meter. The floor covering, laid on neoprene strips resting on the asbestos-cement planks consists of wood hardboard, 25mm thick, covered with vinyl tiles on a layer of PVC foam. This whole system is designed to provide the most effective acoustical insulation and to avoid any damage to the floor planks from localized shock loads.

The ceilings are also designed to provide excellent acoustical absorption. Across the bottoms of the steel beams are strung tension wires which support a layer of fiber glass mats. Suspended 15 cm below the bottoms of the beams is an

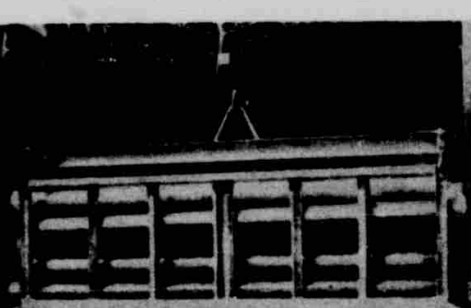
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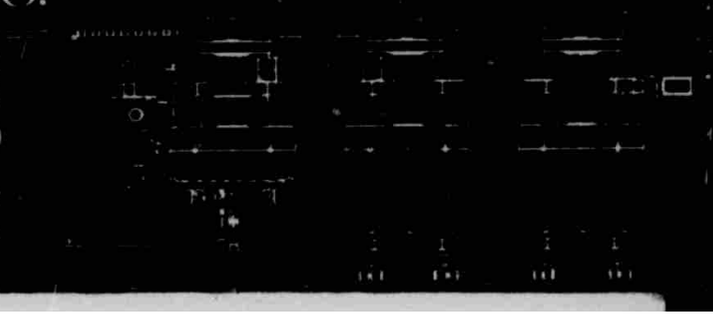


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aluminum grid supporting a ceiling of vinyl-coated glass fiber tiles. Thus we have, in effect, a double ceiling and all wiring, piping and other building services are run through the 15 cm space between the two ceilings.

As in many contemporary buildings, a large percentage of the outer walls consists of windows. In this one the windows are of double-pane construction in wooden frames. Weather moldings and friezes are of molded asbestos cement. To protect against excessive heat and light from the sun, the windows are provided with exterior nylon roll shades. The rollers are placed in, and covered by, custom-molded asbestos-cement sections which form a part of the curtain wall structure and are designed to provide breaks in the exterior facade which eliminate any difficulties that might be experienced due to differential thermal expansion of the various elements of the building. Other custom-molded asbestos-cement sections form the cornices at the tops of the exterior walls.

Curtain wall areas other than the windows also utilize asbestos-cement products to good advantage. They consist of panels of sandwich construction built up as follows:

Exterior—Enameled asbestos-cement sheet, 5mm thick.
Filler—Expanded cork, 60mm thick.
Vapor Barrier—Aluminum foil, 60 microns thick.
Interior—Autoclaved asbestos-cement sheet, 5mm thick.

Gypsum board is glued to the inner side of the panel, forming the interior building wall and adding to the already very effective thermal insulation of the wall as well as increasing its fire resistance. The entire facade presents very few thermal bridges from outside to interior due to the wooden window framing and the fact the only joints to the building framing are through the attaching bolts.

The top floor, supporting the roofing covering, uses the same asbestos planking as the lower floors to permit addition of a fourth story in the future. Wood battens rest on the planking and support a layer of 10mm thick asbestos-cement sheet which forms the roof. The space between planks and roof is about 90mm high, is filled with glass fiber insulation and is ventilated. The asbestos-cement sheet roof is covered with multi-layer roofing dressed with asphaltic,

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waterproof compound and finished with two coats of a reflecting paint.

The interesting points of this system may be summarized as follows:

(1) All elements can be factory made and require only minimal cutting and fitting which can be done with simple tools on the building site.

(2) The use of such components makes possible the construction of a building without using wet processes in the field.

(3) Flexibility of the system and its individual components permits free expression on the part of the architect.

(4) Speed of erection promises to show substantial cost savings. The building described was completely erected in only 100 working days, considerably less than the six-month limit originally imposed.

CONFERENCE ON POLLUTION—Secretary Walter J. Hickel announced that the U.S. Department of the Interior will sponsor *"The National Environmental Pollution Conference and Exposition."*

In his message to the Congress on February 10, President Nixon said that the task of cleaning up our environment calls for a total mobilization of all of us—involving governments at every level and requiring the help of every citizen. It is hoped the coming conference will supply a productive answer to the search for new and more efficient methods, approaches and techniques for winning the battle for a better national environment.

The conference and exposition will be held at the Sheraton Park Hotel, Washington, D.C., September 29-October 2, 1970. Leaders from industry, government, national organizations and universities are expected to join the conference which will cover 18 major environmental topics in more than 50 separate sessions. Pollution abatement equipment, techniques and services will be displayed at the national exposition.

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BAUER

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R/M REFSET

Nonflammable Fluoroelastomer Materials

Raybestos-Manhattan, Inc., has been very active in the development of products which do not burn in a 100% oxygen atmosphere. Working closely with the National Aeronautics and Space Administration, the Research and Development Group at the R/M facility in North Charleston, South Carolina, developed a number of products meeting the stringent requirements of the NASA specifications. NASA had developed a set of standards for suppliers of non-metallic components for use in the Apollo spacecraft, specifying that a material for use in the spacecraft must satisfy the following nonflammability criteria: "In 100% oxygen, at both 16.5 and 6.2 psia, materials shall be self-extinguishing when ignited at the bottom of the test specimen."

Raybestos-Manhattan has developed a number of products to meet these criteria and to fill various needs for elastomeric products on the Apollo Program. Some of them are: potting and caulking compounds; fabricated parts such as molded shoe soles and heels, coated ducting and impregnated asbestos paper; elastomer coated products such as coated beta glass woven cloth, impregnated knitted beta glass, coated webbing and impregnated asbestos tape; and uncured and cured homogeneous sheet as well as extruded and cured homogeneous tubing.

One of the most recent applications was the use of REFSET L-3203-6, made into a protective coating and used on the flammable interior surfaces of the Mobile Quarantine Facility in which the astronauts were isolated after their lunar flight. The material was developed by R/M utilizing FLUOREL brand elastomer, a product of The 3M Company.

REFSET materials are a family of R/M compounds which meet various nonflammability criteria. The Registered trademark, REFSET, is an acronym for: **R**aybestos-Manhattan, **E**lastomers, **F**or **S**pace, **E**xploration, **T**ravel. Asbestos fibers are incorporated in both conformal and caulking compounds resulting in improved thermal and electrical insulation characteristics. The ratio of asbestos to solution can be tailored to meet various flammability requirements. For ex-

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ample, a mixture of 25% asbestos and 75% REFSET solution provides the optimum flexibility flammability characteristics. The addition of asbestos fibers renders the solution permeable. However, the use of 100% REFSET solution as a sub-coating would provide a non-permeable base prior to the application of the conformal coating.

BAUER BROS. EXPANDING—As part of its continuing expansion program, The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc., has appointed *R. A. Trabert Company* and *Number One West* as California representatives for its complete line of Industrial Division equipment. The two firms will market equipment for classification, size reduction, liquid expression, dewatering and separation.

Trabert has offices at 411 East Queen Street, Inglewood, California 90301. Number One West is located at 1415 Rollins Road, Burlingame, California 94010.

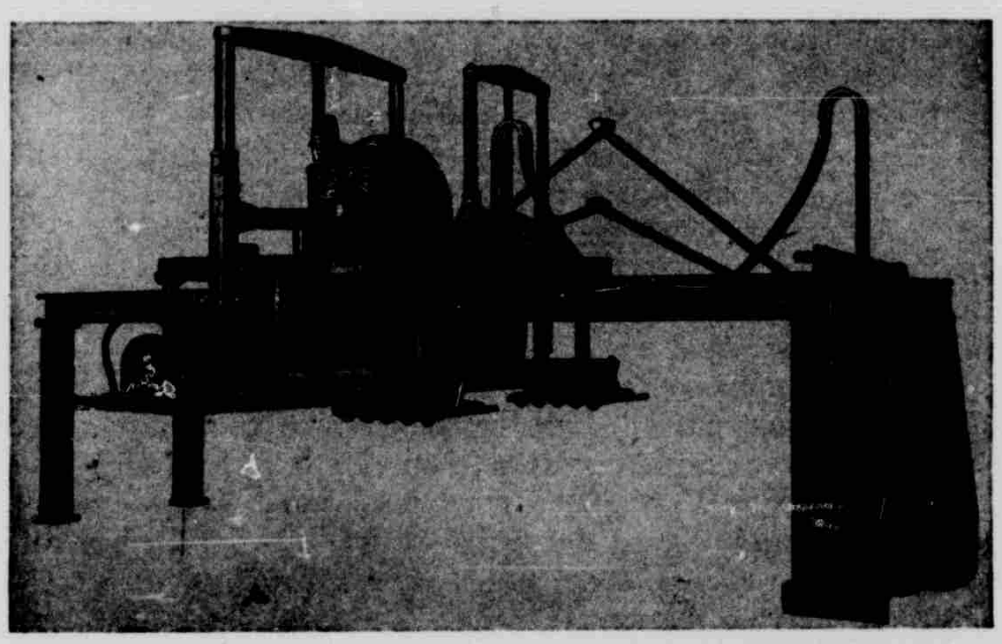
BENDIX CORPORATION has signed a definitive agreement to merge with *American Forest Products Corporation*, San Francisco, California. The newly-signed agreement differs only slightly from an agreement in principle announced by the companies in March. The merger will be voted upon at shareholder meetings of both companies and is subject to obtaining favorable tax rulings. If approved, American Forest will become a wholly-owned subsidiary of Bendix.

NOBLE - AGGREGATE CORPORATION, Santa Clara, California, has been awarded a contract for approximately $400,000 by the *Calaveras Cement Division of The Flintkote Company* to supply and install a nearly half-mile-long conveyor belt system at the mining and cement-processing plant near San Andreas, California. Some 1100 feet of the system will be an inclined, overhead conveyor, running on suspended trusses. Installation of the all-weather, completely-covered storage and conveyor system is scheduled for completion this fall and is part of Calaveras Cement's overall 1970 expansion plan.

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Licensing Agreement

The Carborundum Company, Niagara Falls, New York, and AB Svenska Flaktfabriken (SF), Stockholm, Sweden, jointly announced an exchange of international licenses for the manufacture and sale of their air pollution control systems. Carborundum now has exclusive U.S. rights (with one minor exception) to make and sell SF's electrostatic precipitators, wet scrubbers and multiple cyclones. In turn, SF will make and sell Carborundum's Pangborn dust collectors and filter media on an exclusive basis in Scandinavia with other exclusive and non-exclusive rights to market the systems in Eastern and Western Europe and in Australasia. In addition, the agreement includes an exchange of know-how, proprietary knowledge and personnel. SF is a publicly-held company founded in 1920. In addition to air pollution control equipment, it supplies air cleaning, air filtering, ventilation and heating and air conditioning systems.

According to Carborundum, a diversified materials and engineered systems company, most industrial and municipal air pollution is controlled primarily by four methods. The basic systems used to clean sources of air pollution include dust collectors, electrostatic precipitators, wet scrubbers and mechanical cyclones.

Dust Collectors pass dirty gas through fabric filters which trap dust particles much like a home vacuum cleaner. Such units are relatively simple to operate.

Electrostatic Precipitators, working much like a magnet, attract oppositely-charged particles and remove them from the gas stream. Very large units are used in basic steel and power generating plants.

Wet Scrubbers scrub the pollutants from the gas stream and flush them away with water.

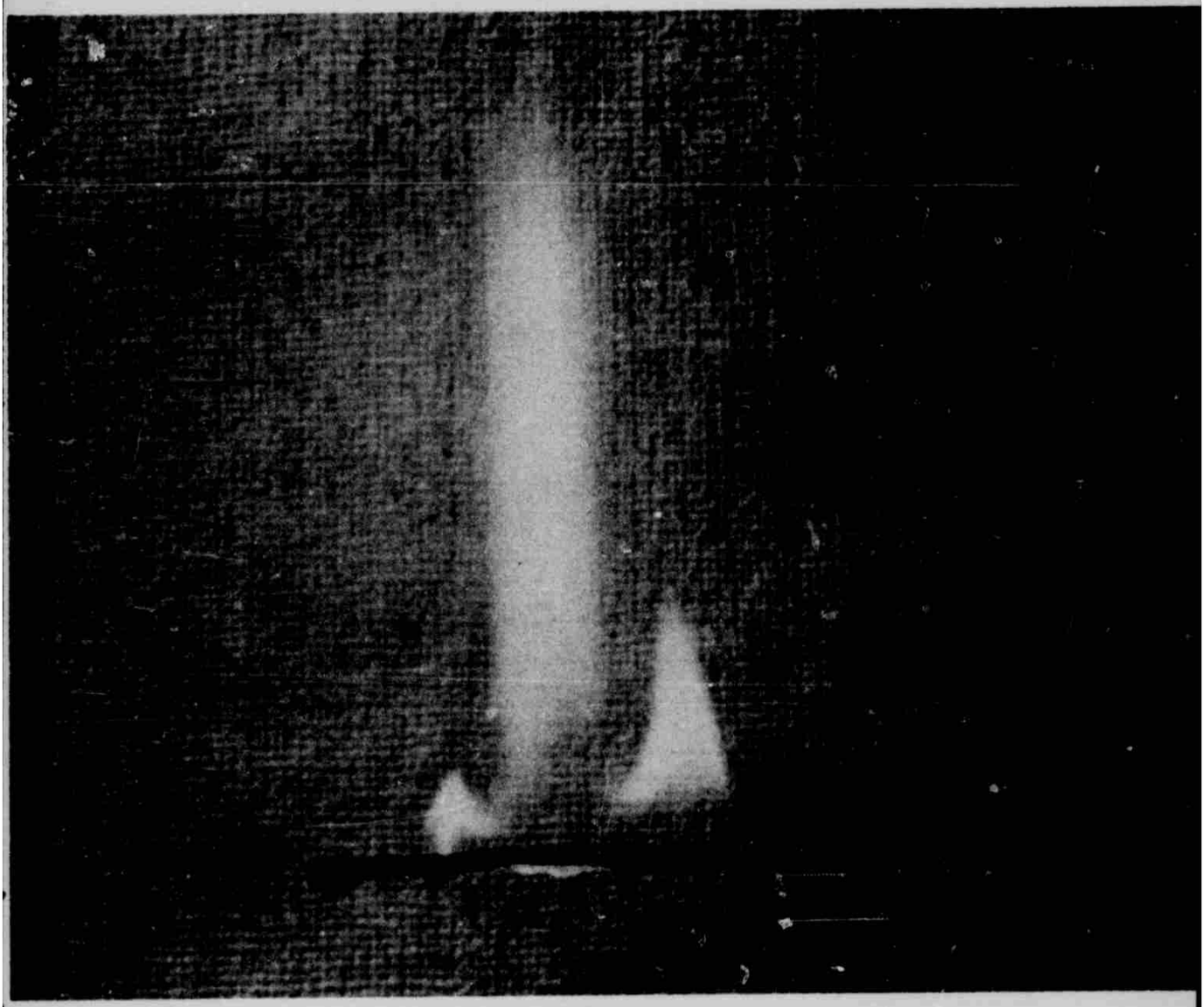
Cyclone Collectors, which operate much like a tornado in a funnel, spin the solids out of the gas stream. This method, not as efficient as the others, is usually used for large particle collection.

Carborundum's continuing commitment in the pollution control field led to the creation of a division in January to consolidate and expand its role in manufacture and marketing of air and water purification systems. The new Pollution Control Division is headquartered in Hagerstown, Maryland,

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and conducts its own research and development programs as well as manufacturing and marketing operations.

Most of Carborundum's air pollution control equipment is marketed under the Pangborn trade name. The versatility of the company in air pollution control is due in part to an expertise in weaving technology provided by the company's Lockport Division. Lockport's new textile research center, now under construction in Burt, New York, will add an important ingredient to the firm's pollution control capability. Much of the research will be devoted to the development of new pollution control fabrics. Through Torrax Systems, Inc., a subsidiary, Carborundum is pioneering in the development of a super-high temperature (3000°F) system capable of incinerating all solid waste matter without polluting. The residue can be used as a building material.

Carborundum believes the final answer to pollution will be through filter systems, dust and fume control, solid waste disposal systems, water and waste treatment plants. But critical to the success of each of these are the materials of which they are made and the materials they consume. Because the problem of pollution control is as much financial as it is technological, a measure of the firm's success will be to make the control materials do more, last longer and cost less.

In Memoriam

CARL FREY, Vice President-Sales of The Anchor Packing Company, Philadelphia, Pennsylvania, passed away suddenly on May 15, 1970.

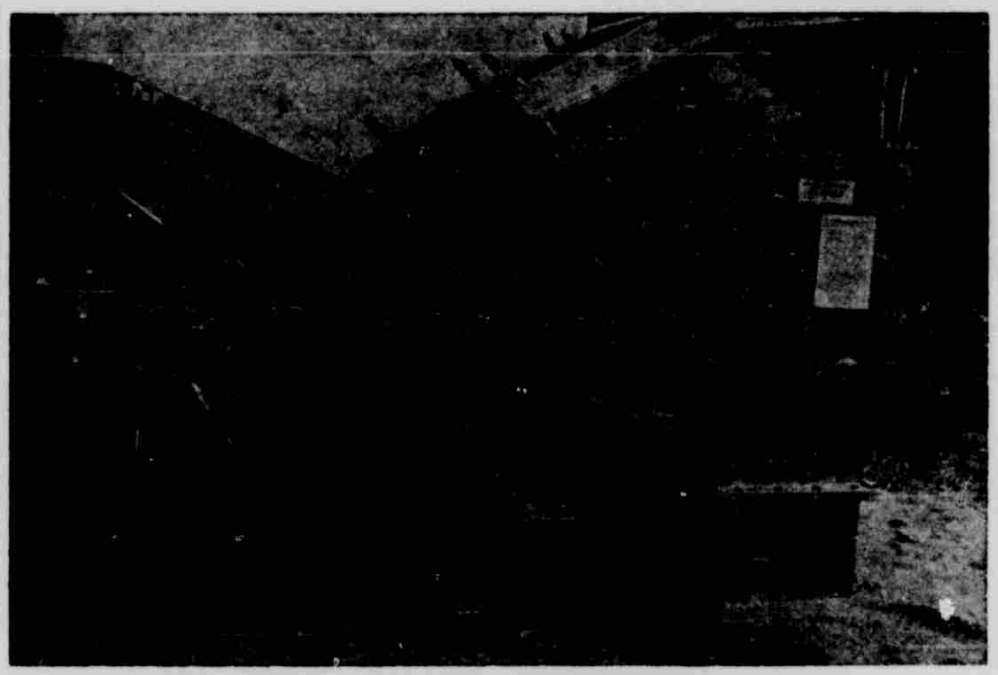
Mr. Frey had been District Manager in Pittsburgh for a number of years and only recently moved to Philadelphia.

In lieu of flowers it has been stated that contributions to The American Heart Fund would be appreciated.

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ATI General Meeting

The Asbestos Textile Institute held its second General Meeting of the year at Thetford Mines, Quebec, Canada, June 10-12, 1970. Five Canadian asbestos fiber producers, all of whom are members of ATI, hosted the meeting—Asbestos Corporation Ltd., Bell Asbestos Mines Ltd., Canadian Johns-Manville Co. Ltd., Cassiar Asbestos Corporation Ltd. and Lake Asbestos of Quebec Ltd.

Special arrangements were made for two very instructive tours, one of open-pit and underground asbestos mines and the other a tour of a mill to witness the process of recovering fiber from asbestos ore.

Social events included a bus trip and luncheon for the wives at the famed Chateau Frontenac; a reception, dinner and dance at the Colonial Club at Black Lake; and a reception, dinner and party at the Thetford Golf and Curling Club to honor the Institute's President, Mr. E. A. Schuman.

As a normal procedure, working committee meetings were held by the Technical, Air Hygiene & Manufacturing, Asbestos Advisory, Fiber Testing, and Environmental Study Committees.

B. Gen. John D. Christian, President of Cassiar Asbestos Corporation Ltd. was Guest Speaker at the General Meeting. His interesting and informative talk was supplemented by a 30-minute, color film of Cassiar Asbestos' new Clinton Mine, currently the most northerly open-pit mining operation in Canada.

A review of the current condition of the world market for asbestos fiber was given by Mr. N. W. Hendry, General Sales Manager, Canadian Johns-Manville Asbestos Ltd. Mr. Hendry advised that the overall picture of the demand for asbestos fiber in all world markets is still forecast to expand at a rate of about 5% per annum. The greatest growth continues to be in the demand from the asbestos-cement products market.

The next General Meeting of the Asbestos Textile Institute will be held at Williamsburg, Virginia, October 7-9, 1970.

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Automobile Sales

APRIL 1970 motor vehicle factory sales from plants in the *United States* totaled 807,488 (passenger cars, 661,271; trucks and buses, 146,217). The total for April 1969 was 876,764.

Motor vehicle factory sales from plants in *Canada* totaled 134,180 for April 1970 compared to 112,703 in April 1969.

INSULATION HYGIENE PROGRESS REPORT, Summer 1970, has recently been issued.

It announces the promulgation by the Environmental Protection Administration and the Department of Air Resources of New York City of interim orders governing the spraying, on City construction sites, of any insulation material containing asbestos. Complete text of the new rules is given along with a brief history of the steps taken by various interested groups in developing the rules.

Also reviewed was a two-week tour of Gulf Coast shipyards during which investigators from the "Insulation Industry Hygiene Research Program" studied conditions existing in connection with insulation work on ships of many types. Air samples taken from ship compartments are now being studied in the New York laboratories of IIHRP.

PORTER DIVIDEND—The Board of Directors of H. K. Porter Company, Inc., declared the regular quarterly dividend of $1.375 per share on the 5½ cumulative sinking fund preference stock. The dividend was payable April 30 to stockholders of record April 10.

The Board also declared a quarterly cash dividend of 25¢ per share on the common stock, payable June 30 to stockholders of record June 10.

NATIONAL GYPSUM COMPANY, following its Annual Stockholders Meeting, declared a regular quarterly dividend on its common stock of 26¼c per share payable July 1 to holders of record June 10.

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MARKET CONDITIONS

General Business.

Decline in Gross National Product and a rise in unemployment, combined with other significant indicators, reflect a continuing slowdown in general business. The credit crunch continues and, in some cases, is aggravated by the fact that the declining value of many common stocks is putting a squeeze on individuals and corporations who have pledged such stocks as collateral for loans. The effect of the pinch has been a widespread tendency on the part of companies, both large and small, to be extremely slow in meeting their day-to-day trade obligations and this increases the ready cash problems of their suppliers, particularly the smaller ones. Despite the rather gloomy present situation it is interesting to note that some companies which were careful not to get over-extended during the past few years are reporting good sales and profits and are looking forward with confidence to the future.

In Britain, the Conservatives won an upset victory in the recent Parliamentary elections. While the business community found this quite encouraging, that nation's economic problems are still far from a solution and the new Government is faced with a multitude of problems.

Asbestos Fiber.

Shipments of Canadian asbestos over the first five months of 1970 are slightly below the level of 1969. This reduction reflects, primarily, the economic slowdown in the U.S. and Canada.

In contrast the demand for asbestos in the International markets continues to be strong. In particular, economic conditions in Japan, Australia, Germany and Brazil are extremely strong and production of asbestos-cement products is at a high level. There is, however, some concern being registered in Europe regarding inflation which could result in steps being taken to cool down the economy. Countries such as Spain, Italy and the Middle East are suffering from the results of over-production or the problems of internal strife, both of which are having adverse effects on asbestos demand.

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In the overall, asbestos fiber demand for the year 1970 may not register the continuation of growth which has been seen over the past ten years. However, this interruption will be temporary over the long term.

Additional production of asbestos fiber will be reflected in 1971 by Asbestos Corporation at its King-Beaver Mine and by Cassiar Asbestos at its Cassiar Mine. Over the longer term, Asbestos Corporation has announced its decision to proceed with production at its Asbestos Hill Mine in Ungava and production from properties in Greece and Colombia is indicated for the future.

Asbestos—Manufactured Goods.

Asbestos Textiles: Sales of asbestos textiles during the first quarter of 1970 appear to have been slightly in excess of the excellent volume in the same period of last year. While some soft spots exist in the current market, the overall volume is very satisfactory. Prices are firm.

The demand for asbestos textiles is expected to continue strong for the balance of the year. There is apprehension that the "free-floating" Canadian dollar will result in higher prices for Canadian asbestos fiber, major source of supply for U.S. spinners. Shortages of the better grade spinning fibers will continue to adversely affect the supply of high-grade yarns and cloth.

Asbestos Brake Lining: The market for replacement brake linings is good and, with the pick-up in new car sales, there has been a slight improvement in OEM sales. The future looks reasonably promising barring a strike in the automotive industry.

Asbestos Paper: Sales for the first half of 1970 were about the same as those recorded last year. Expectations are for at least a slight increase during the remainder of this year. Continually rising costs indicate a price increase on paper and allied products may be necessary later in the year.

Asbestos Millboard: Sales of millboard are holding close to the levels of 1969 but shipments of this and many other products have been hurt by the truckers' strike in the Mid-west. Barring some unforseen developments, sales are expected to continue at, or near, present levels for the balance of this year.

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ASBESTOS CORPORATION LIMITED

ASBESTOS

North American Representatives

■ CANADA

Albion Asbestos Packings Ltd.
2195 Ekers Ave.
Montreal 26, Que.

Canadian Asbestos Ontario Ltd.
286 King Street East
Toronto 2, Ont.

■ MEXICO

ACOSA
Apartado Postal 8600
Mexico 1, D.F.

■ UNITED STATES

BALTIMORE, MD. 21202
Wallace & Gale Co.
115-119 So. Gay St.

BUFFALO, N.Y. 14210
Meyers Chemicals Inc.
290 Larkin St.

CHICAGO, ILL. 60645
Donald R. Fitzgerald Co.
5875 N. Lincoln Ave.

CINCINNATI, OHIO 45203
C. L. Zimmerman Co.
N 303 Cincinnati Union Terminal

CLEVELAND, OHIO 44102
Chem-Materials Co., Inc.
6400 Herman Avenue

DETROIT, MICH. 48219
Gerald J. Fahey
16772 Plainview Road

FORT WORTH, TEXAS 76106
Lehman-Phillips, Inc.
2550 Glendale Ave.

HAYWARD, CAL. 94544
Central Solvents & Chemicals Co.
31702 Hayman St.

KENT, WASH. 98031
Central Solvents & Chemicals Co.
7601 South 190th St.

NEW ORLEANS, LA. 70126
D. F. Condon Co.
Box 26012
Chef Menteur Station

NEW YORK, N.Y. 10007
Whittaker, Clark & Daniels, Inc.
100 Church St.

PHILADELPHIA, PA. 19140
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4455 N. 6th St.

PORTLAND, ORE. 97302
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MacArthur Co.
936 Raymond Ave.

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SANTA FE SPRINGS, CAL. 90670
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13900 Carmenita Road

SPOKANE, WASH. 99206
Central Solvents & Chemicals Co.
6308 East Sharp Avenue

53-68

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Asbestos Felt: Demand for asbestos felt is spotty and the outlook for the second half of 1970 is only fair.

High Pressure Insulation: The current market for high pressure insulations is strong in some areas but shows signs of weakening in others. Based on the amount of work quoted by contractors the market should improve later in the year as jobs are actually released by the purchasers.

Asbestos-Cement Shingles, Roofing & Siding: With residential building activity at a low ebb, the market for these products can best be described as poor. Since there is no indication of any substantial change in the housing field, prospects are also poor at present.

Asbestos-Cement Pipes: Sales of pressure pipe for water supplies have, in the overall, been only fair. Markets in the Southern States seem more depressed than elsewhere. Sales of sewer pipe continue quite good for both public and private projects. It is felt the emphasis being placed on environmental controls should eventually result in increased use of A/C pipe as more elaborate systems are installed to prevent water pollution.

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

SAFETY RECORD—In the announcement of its annual ratings, the National Safety Council recognized the asbestos-cement pipe plant of *Certain-teed Products Corporation,* located in Hillsboro, Texas. The plant completed the entire past year without a lost-time injury to any of its employees and is now eligible for a national award.

„ Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

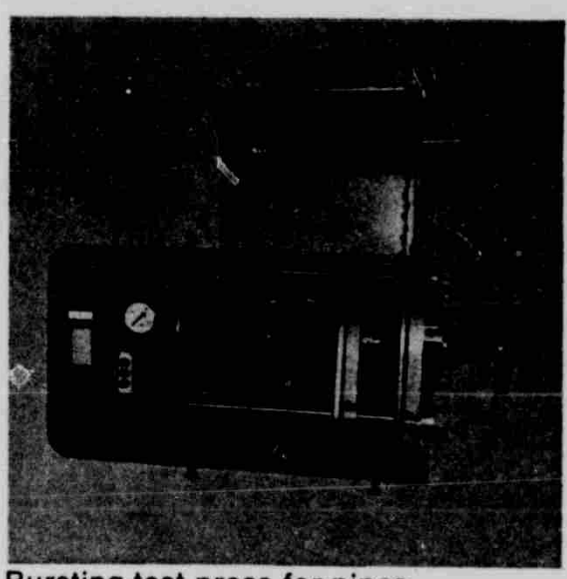
ASBESTOS-ORES-MINERALS

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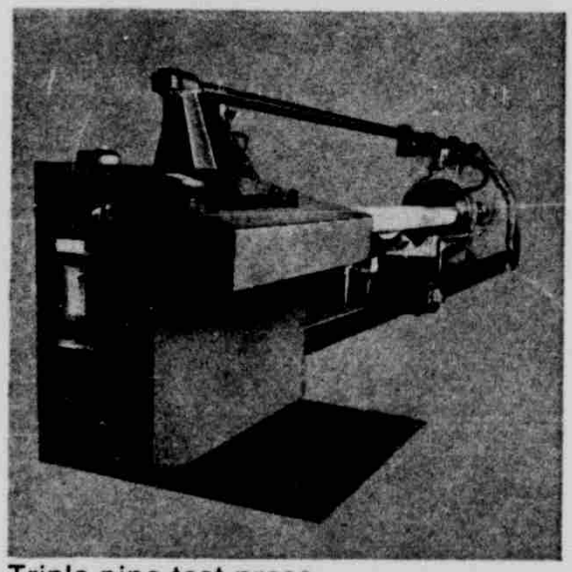
Choose performance and efficiency



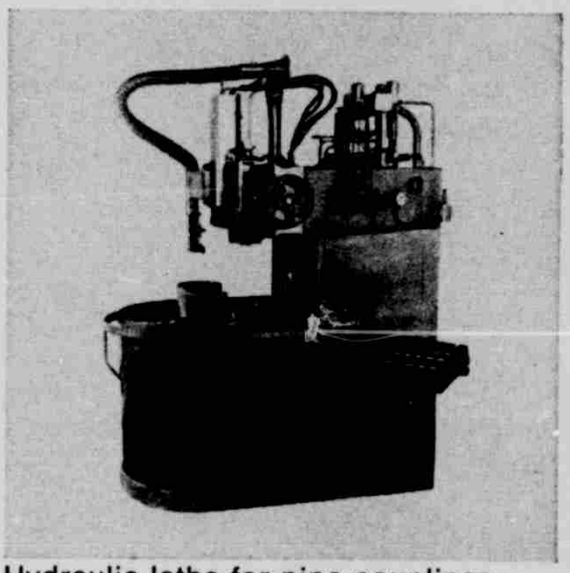
Pressure recorder of our test presses



Bursting test press for pipes



Triple pipe test press



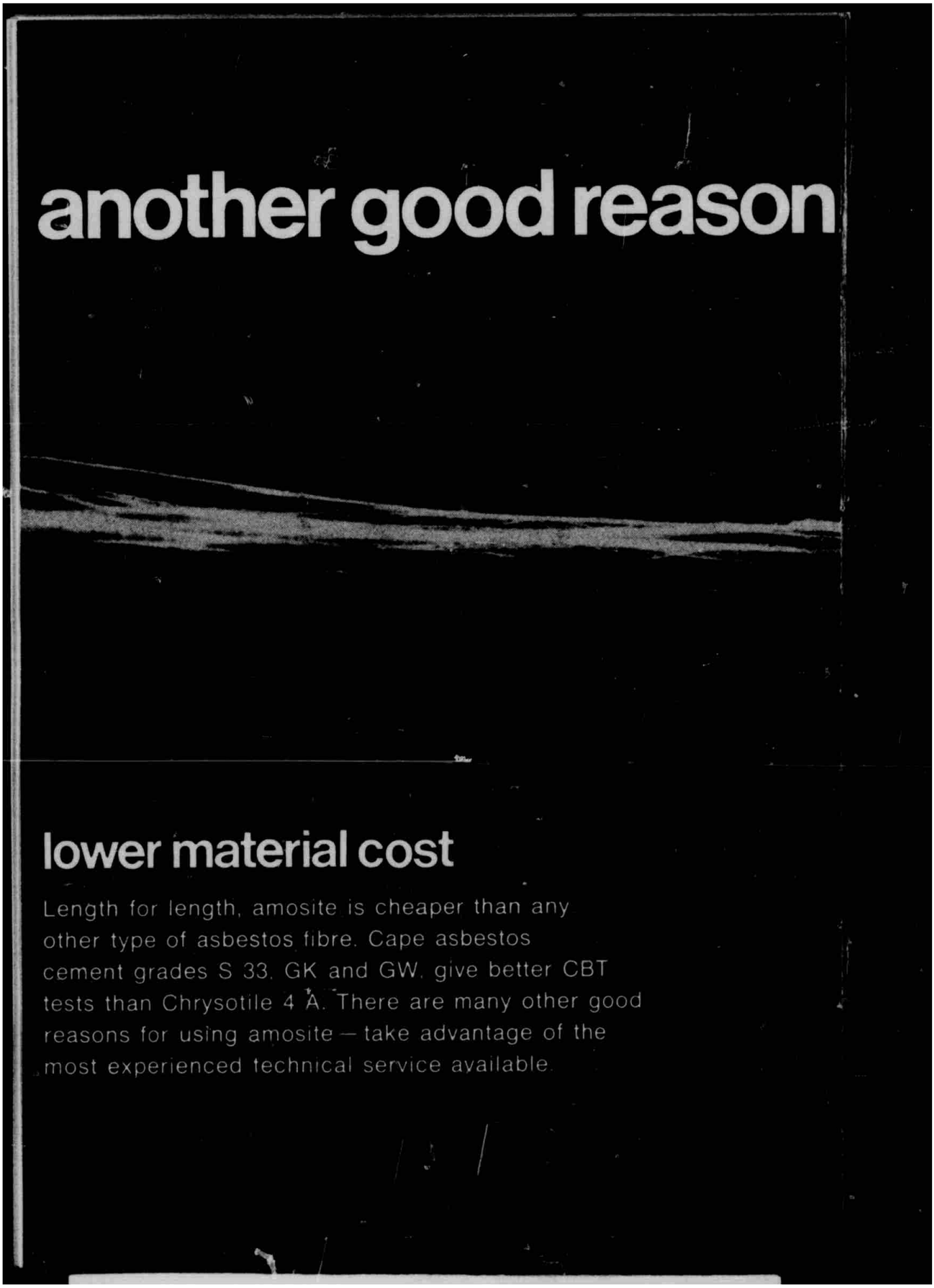
Hydraulic lathe for pipe couplings

What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!

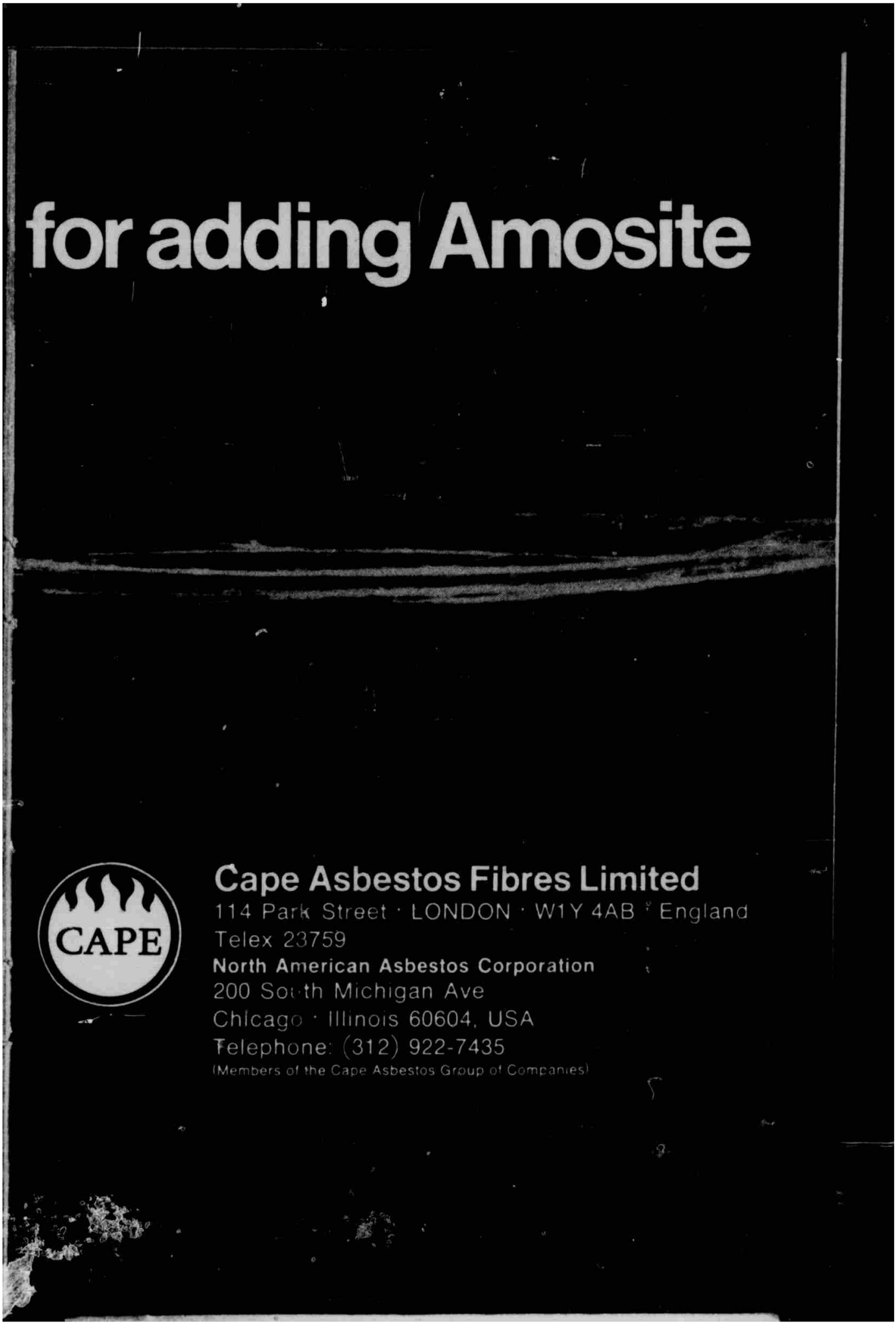
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for adding Amosite
CAPE
Cape Asbestos Fibres Limited
114 Park Street · LONDON · W1Y 4AB · England
Telex 23759
North American Asbestos Corporation
200 South Michigan Ave
Chicago · Illinois 60604, USA
Telephone: (312) 922-7435
(Members of the Cape Asbestos Group of Companies)

Building

From: McGraw-Hill Information Systems Company

MAY 1970—The value of May 1970 contracts for future construction work, at $5,417,199,000, dropped 23% below last year's comparable total, cutting 1970's early lead to only 1% for the year to date. The seasonally-adjusted Dodge Index (1957-1959=100) slipped to 170 in May, approximately the level reached last fall just before 1970's utility construction boom sent it soaring into the 200's. The one big difference in contract statistics in May was the absence of the dozen or so very large projects (utilities, major office buildings and huge industrial complexes) which had been swelling 1970's totals. Because such large projects tend to obscure the basic trend of contracting by their sheer size, May's data revealed more clearly how nonresidential building has been responding to 1970's deteriorating business conditions. As soon as there was a lull in large jobs, as happened in May, the decline that has been taking place in the flow of small and medium-sized nonresidential projects became apparent in a sudden 33 point drop in the Dodge Index. It is expected much of the void incurred by reduced industrial and commercial construction will be filled by a rise in homebuilding in the months ahead.

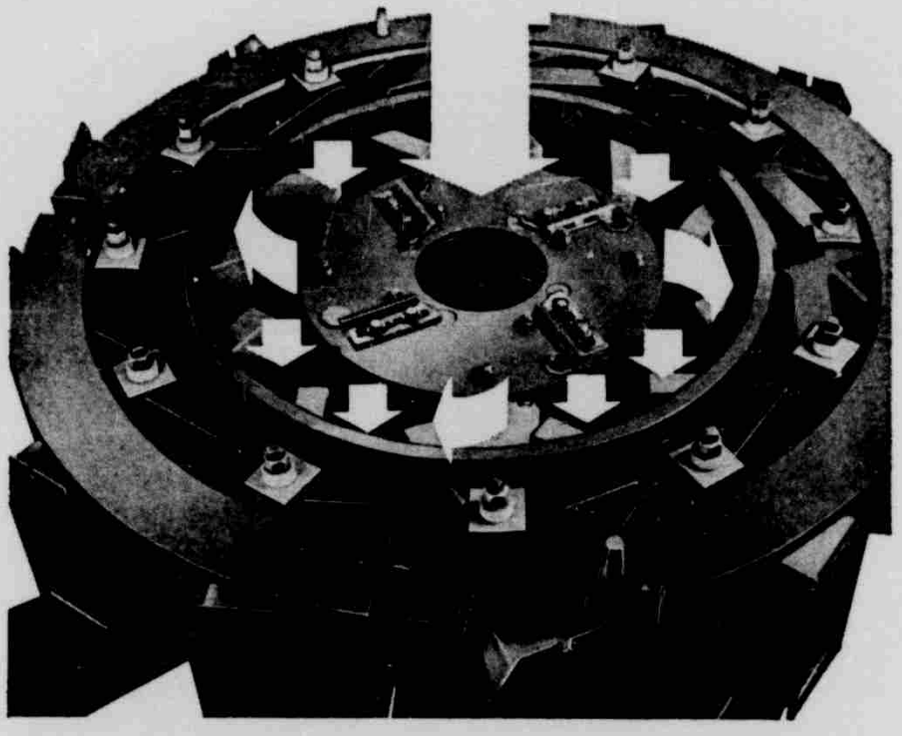
Nonresidential building contracts totaled $1,749,820,000, 35% below the year-ago level. All major building types showed declines but the biggest losses were noted in office buildings and in manufacturing plants.

Residential building value, at $2,122,522,000, was 19% below May 1969. On a seasonally-adjusted basis, the number of dwelling units contracted in May showed a small improvement over the weak rate that has prevailed since the beginning of the year.

Nonbuilding construction contracts were valued at $1,544,857,000, 13% below last year's total. Highway construction was down significantly from the year-ago value.

PRODUCTION ENGINEERING SHOW will open at Navy Pier, Chicago, Illinois, September 22 and continue through October 2. The Show is held every five years and is produced to coincide with the Machine Tool Show which will open one day earlier at the International Amphitheatre.

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Simplicity fibrizes longer, cleaner fibres faster with far fewer fines

Simplicity's D'CENTEGRATOR fibrizes so thoroughly, the longer fibres are not "dirtied". The break-up action is pictured above schematically (our asbestos fibrizers actually have 12 bars). On-the-job performance also indicates a higher recovery rate and lower percent of fines. Both lower initial and maintenance cost make this 60 t.p.h. unit (2" cubical feed) an outstanding producer. Write or call about a test.



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Dealers and licensees throughout the world.

OTHER MINING EQUIPMENT: Vibrating Screens, Feeders, Grizzly Feeders, Scalpers, Crushers and Conveyors. 48R

A FIRST-YEAR GRANT has been awarded by the *U.S. Department of Health, Education and Welfare* to the University of Nevada for a study of the "Aqueous Surface Chemistry of Asbestos Minerals." Dr. Ross W. Smith is Principal Investigator of the research project. The broad research objectives of the program include a systematic and thorough study of the aqueous surface chemistry of asbestiform and related ferro-magnesium minerals. Not only will the bulk surface properties be explored but also, through electron microscopy, coupled with solution chemistry, properties of individual surfaces such as asbestos fiber ends and sides would be investigated. It is hoped that besides specific knowledge about ferro-magnesium minerals, some additional information could be obtained on origin of charge of silicates in aqueous media. The surface chemistry data obtained as a result of this research should be of great interest to researchers who are attempting to determine the cause of carcinogenic activity of asbestos minerals.

WATER VAPOUR is the subject of one of a series of Technical Bulletins on "Good Roofing" issued by the *Canadian Roofing Contractors Association,* Montreal. According to the Association, vapour diffusion is a relatively slow process. A good continuous vapour barrier can reduce the rate of diffusion to a very low level. For this reason, the CRCA Specification Manual recommends the use of an adequate vapour barrier for all roofing systems.

Other Bulletins recently issued concern Roof Maintenance, Insulation and Conduit on Roof Decks.

GUMMI ASBEST KUNSTSTOFFE

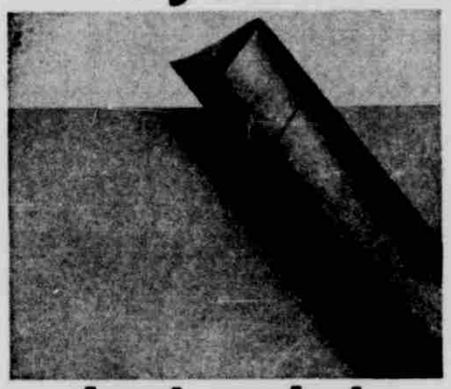
is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

Subscription fee DM 72.—plus postage per year.

Published by: A. W. Gentner Verlag KG, 7 Stuttgart-W Forststr. 131, Postfach 688.

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If you use asbestos for



sheet gaskets



brake linings

or just about any other product, we have the fibre grade you need. You can specify from 43 different grades, so you're sure of getting fibres of the correct length and with the proper degree of openness for your products.

Lake Asbestos fibre is supplied in pressure-packed bags which are easy to handle . . . occupy little storage space . . . save on shipping costs. For more information or test samples, write to: Asarco International Corporation, P.O. Box 608, Black Lake, Quebec, Canada—distributors for Lake Asbestos of Quebec, Ltd.

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Sao Paulo "Brasimet" Comercio e Industria S.A.

CALIFORNIA, Los Angeles
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PRODUCTION - IMPORTS - EXPORTS

Australia—The following asbestos statistics were supplied by the Bureau of Mineral Resources, Geology & Geophysics, Canberra. For the *4th Quarter of 1969,* production totaled 198 short tons (168 tons from New South Wales and 30 tons from Western Australia). Imports during the same period included 11,405 tons of Chrysotile, valued at $1,483,000; 2,273 tons of Amosite, valued at $277,000; and 569 tons of other types, valued at $64,000. Exports of all types and grades in the final quarter of 1969 totaled 18 tons, valued at $6,000.

For the *Year 1969,* production totaled 822 short tons (792 tons from New South Wales and 30 tons from Western Australia). Imports included 46,656 tons of Chrysotile, valued at $5,944,000; 9,779 tons of Amosite, valued at $1,180,000; and 2,633 tons of other types, valued at $247,000. Exports of all types and grades totaled 182 tons, valued at $43,000.

Canada—Producers' shipments of asbestos during *March 1970* totaled 117,914 short tons (94,891 tons from Quebec plants and 23,023 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). Shipments for the *First Quarter 1970* total 295,062 tons compared to 293,700 tons for the same period last year.

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

Cyprus—As reported by the Ministry of Commerce & Industry, Nicosia, *Production* of asbestos for the *Year 1969* totaled 21,363 short tons: no production in the first quarter, 5,189 tons in the second quarter, 7,954 tons during the third quarter and 8,220 tons for the final quarter.

South Africa—Production of asbestos fiber in the *4th Quarter of 1969* totaled 74,194 short tons: Amosite, 24,410 tons; Chrysotile, 13,383 tons; Cape Blue, 35,277 tons; Transvaal Blue, 1,124 tons.

Exports for the same period totaled 71,547 short tons, valued at R7,962,903. The breakdown is as follows: Amosite, 27,432 tons, R2,759,729; Chrysotile, 6,577 tons, R468,430; Cape Blue, 36,753 tons, R4,625,939; Transvaal Blue, 785 tons, R108,805.

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

Directory of Mining Establishments, 1969 has been issued by the *Quebec Bureau of Statistics* as Publication O-2M. Eight asbestos mining firms, together with head office addresses and mine locations, are listed in the Directory.

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NEWS

FOR
ASBESTOS-CEMENT
MANUFACTURERS

We develop, make, and sell A.C. felts...

that's all!

Already in the '70's we offer
NEW DEVELOPMENTS

* a **QUICK START-UP SURFACE** to ensure full production in minimum time.

* a **WEAR RESISTANT BACK** to resist mechanical wear.

* and—always—**SIZE STABILITY** and **RELIABILITY**

Scapa sets the standard by which other felts are judged



SCAPA TEXTILES LTD.

BAMFORD [illegible] ENGLAND [illegible]

[illegible] WAYCROSS [illegible] USA JOLIETTE P.Q. CANADA

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Imports Into U.S.A.

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

Short Tons

Unmanufactured Asbestos:	JAN. '70	FEB. '70
Amosite, South Africa	1,844	1,405
Crocidolite (Blue), South Africa	867	1,489
Chrysotile, Crude, Canada	50	..
South Africa	50	..
Chrysotile, Spinning Fibers, Canada	1,075	1,044
Italy	..	2
Yugoslavia	661	..
South Africa	..	5
Chrysotile, Other, Canada	50,905	45,602
South Africa	..	425
Other Crudes & Fibers, Canada	108	53
Finland	709	..
Mozambique	..	10
Portugal	20	..
Rhodesia	200	..
South Africa	..	250
United Kingdom	..	5
	56,489	50,290

January unmanufactured asbestos imports were valued at $6,674,631.
February unmanufactured asbestos imports were valued at $5,818,967.

Manufactured Asbestos Goods:		JANUARY 1970	
Asbestos Yarn, Slivers, etc	Lb	268,003	$200,122
A-C Pipes, Tubes & Fittings	Lb	4,594,288	211,728
Asbestos-Cement Articles, Other	Lb	1,749,832	232,861
Asbestos Articles, Other		..	137,271
			$781,982

		FEBRUARY 1970	
Asbestos Yarn, Slivers, etc	Lb	233,947	$253,144
A-C Pipes, Tubes & Fittings	Lb	766,473	41,836
Asbestos-Cement Articles, Other	Lb	1,216,005	180,012
Asbestos Articles, Other		..	138,236
			$613,228

Quebec Asbestos Mining Association, Quebec City, Canada, recently published an informative booklet entitled *"Asbestos in the Sixties: Ten Years of Growth and Progress."* Subjects discussed include Markets and Exports, Expansion Projects in Canada, Research into Biological Effects of Asbestos and an Outlook for the future of the asbestos mining industry in Quebec.

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Exports From U.S.A.

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

Unmanufactured Asbestos:		MARCH 1970	
Crude & Spinning Fibers	s. tons	232	$ 42,380
Non-Spinning Fibers	s. tons	815	138,608
Waste & Refuse	s. tons	1,293	142,505
		2,340	$ 323,493
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,876,433	$ 173,293
Other Asbestos-Cement Articles	Lb	625,728	45,995
Asbestos Gaskets	Lb	66,869	74,152
Asbestos Packing	Lb	388,126	518,788
Asbestos Heat or Sound Insulation		..	194,341
Asbestos Textiles & Yarns	Lb	993,358	292,786
Asbestos Protective Clothing		..	4,622
Mfrs. Other than Friction Materials		..	381,816
Clutch Facings & Linings for Auto. Use	No	138,320	162,807
Clutch Facings & Linings, Other	No	21,861	22,175
Brake Linings for Automotive Use	Lb	549,376	362,470
Asbestos Brake Linings, Other	Lb	177,956	149,196
			$ 2,382,441

Exports From Canada

(Published by Dominion Bureau of Statistics)

Short Tons

MARCH 1970

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	931	13,398	7,091
Eastern Europe	..	28	1,076	221
Middle East	..	..	1,450	33
Africa	..	..	..	..
Asia	7	191	6,209	3,159
Oceania	..	..	3,046	581
So. & Cen. America & Antilles	..	104	5,295	1,094
United States	..	1,719	17,386	37,246
	7	2,973	47,860	49,425

The total amount of unmanufactured asbestos exported in *March 1970* was 100,265 short tons, valued at $14,355,000.

Manufactured Asbestos Goods:	
Asbestos Brake Linings & Facings	$ 72,000
Asbestos-Cement Building Materials	121,000
Asbestos Basic Products, Other	71,000
	$ 264,000

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INDUSTRY NEWS

HAPPY BIRTHDAY

Richard B. Hazard, Vice President-Rubber & Packing Sales, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, August 17.
Mrs. Joan Holtze, Assistant Secretary & Assistant Treasurer, North American Asbestos Corporation, Chicago, Illinois, August 18.
Albert H. Fay, Vice President-Research & Marketing, National Gypsum Company, Buffalo, New York, August 19.
R. G. Soothill, Honorary President, Turner & Newall Limited, London, England, August 19.
William D. Raddatz, President, Amsco Division, Abex Corporation, New York City, August 20.
Harry O. Christianson, Vice President-Special Assignments, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, August 23.
M. Thompson, Secretary, Scapa Group Limited, Blackburn, Lancashire, England, August 23.
John Dowling, Secretary-Treasurer, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, August 26.
Allan E. Daly, Vice President-Automotive Sales, Scandura, Inc., Charlotte, North Carolina, August 31.
Richard W. Hunt, Vice President, Asbestos Distributors, Inc., Port Chester, New York, August 31.
L. D. Norton, Director, Turners Asbestos Cement Company Limited, Trafford Park, Manchester, England, September 1.
Adam M. Wyant, Secretary, National Gypsum Company, Buffalo, New York, September 1.
Alexander J. Gillespie, Jr., Secretary & General Counsel, American Smelting & Refining Company, New York City, September 2.
J. P. McCormick, Director, Turners Asbestos Cement Company Limited, Trafford Park, Manchester, England, September 2.
William C. O'Brien, General Sales Manager, Industrial Products Division, GAF Corporation, New York City, September 2.
John B. Swaney, Controller, Asbestos Corporation of America, Garwood, New Jersey, September 4.
Frederick K. Sweeney, Vice President, Building Products Division, GAF Corporation, New York City, September 5.
Geo. W. Wunder, Director, Hedman Mines Limited, New York City, September 6.
M. Ward Burleson, Vice President & General Manager, Industrial Insulations Division, Johns-Manville Corporation, New York City, September 7.
J. L. (Jerry) Mitchell, Textile Consultant, Charlotte, North Carolina, September 7.
F. M. Connell, Chairman of the Board, Cassiar Asbestos Corporation Limited, Toronto, Ontario, Canada, September 9.
R. W. Little, Plant Manager, British Canadian Mine, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, September 10.
W. Harold Connell, Director, Cassiar Asbestos Corporation Limited,

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Asbestos in the Arctic.

When the SS *Manhattan* explored a year 'round tanker route to the Alaskan North Slope oil fields, asbestos was aboard.

Asbestos fibers added increased strength and fire-safety to J-M Metal-On® (aluminum jacketed calcium silicate pipe insulation) used to protect the ship's external deck piping.

The excellent insulating characteristics of this asbestos-bonded insulation kept liquids flowing in the minus 50°F Arctic temperatures.

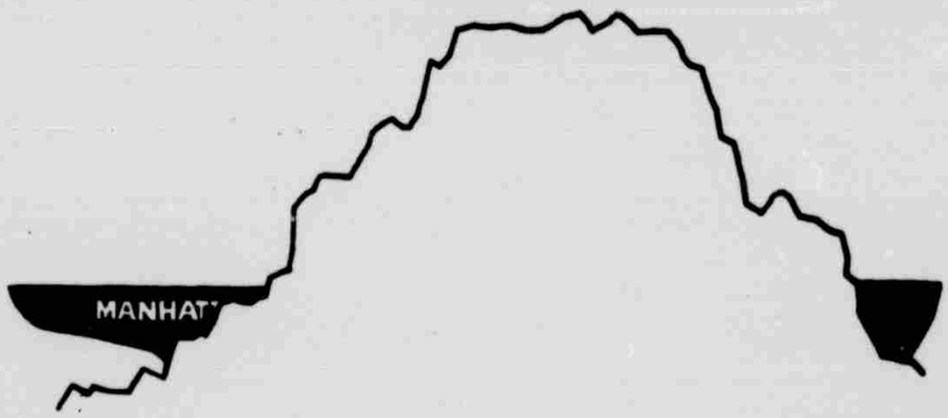
Chemically stable and resistant to water damage, asbestos will neither burn nor rot. And it easily withstands severe atmospheric changes.

J-M asbestos insulation is at work helping to solve many kinds of temperature control problems. Hot and cold.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fiber Sales, Manville, N.J. 08835 U.S.A.

JM

Johns-Manville



Toronto, Ontario, Canada, September 12.
J. J. Lees, Mill Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Limited, Cassiar, B.C., Canada, September 12.
W. B. Coetzer, Chairman, Msauli Asbes Limited, Johannesburg, South Africa, September 13.
Robert W. Winson, Manager, Reeves Mine, Canadian Johns-Manville Company Limited, Ontario, Canada, September 13.
Fred L. Pundsack, Vice President for Research & Development, Johns-Manville Corporation, New York City, September 14.

Ascopex Explorations Limited is a new mining exploration company recently formed by a group of businessmen from Middletown, New York. The purpose of the new company is to explore and develop 14 asbestos and base metals claims located on a 1400-acre tract of wilderness near Val D'Or, in the Province of Quebec, Canada. Results of surveys conducted by a Canadian geologist indicate there are anomalies on the property, one of which is beneath a lake. The company is now preparing test holes for drilling.

The tract lies adjacent to the property presently being evaluated by Abitibi Asbestos Mining Co. Ltd.

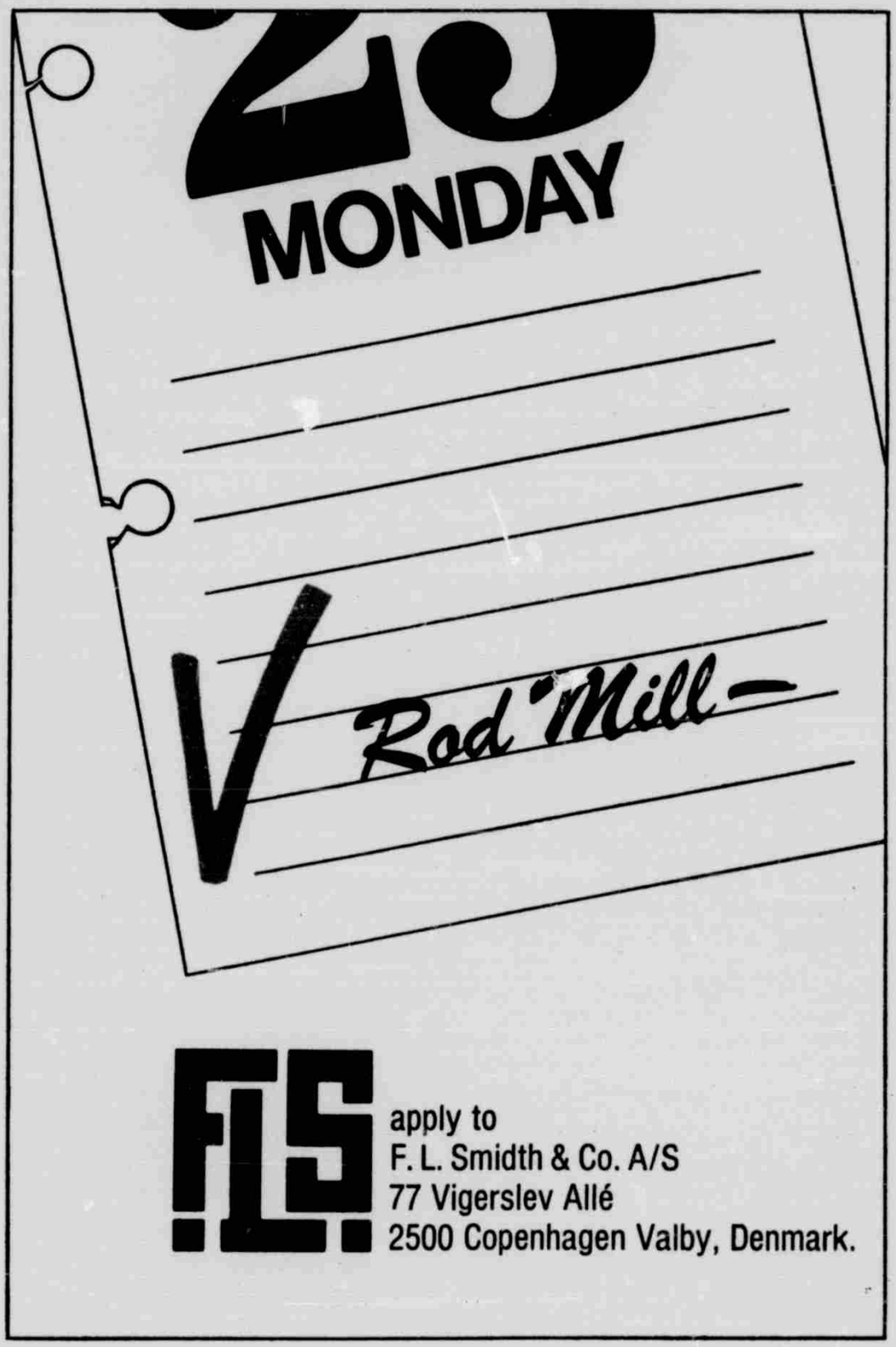
Canadian Johns-Manville Co. Ltd. will build a new asbestos manufacturing plant in the town of Asbestos, some 40 miles northeast of Sherbrooke in the Eastern Townships of Quebec, Canada. The new facility will produce a variety of products including textiles, railway brake shoes and rubber rings for Transite pipe applications.

The 86,000-square-foot building will be situated near the new $75 million complex now underway to relocate the surface facilities and a dry rock storage building at the Jeffrey Mine, one of the world's largest asbestos mines.

The old factory, presently located on the north rim of the perimeter of the mine, will be demolished as soon as possible.

Cerro Exploration in Greece—An agreement was signed in January between Cerro Corporation, New York City, and the Hellenic Industrial Development Bank, S.A., and its affiliate, Hellenic Asbestos, S.A., which provides for further exploration of the Zidani Asbestos Mine, near Kozani, Greece. It may take two years to verify previous work done on the property and to explore processing methods, commercial potential and other aspects. At the completion of this study Cerro Corporation will decide whether or not to make a commitment for putting the property into commercial production.

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NOTES FROM 1969 ANNUAL REPORTS

ASBESTOS CORPORATION LIMITED

1969 was a record year for Asbestos Corporation Limited. Sales exceeded 300,000 tons for the first time and were at an all-time high of $50,365,690 or 12% ahead of last year. Net profit after taxes amounted to $6,139,130 or $2.16 per share compared to $4,873,741 or $1.72 per share the previous year. The demand was strong for all grades of asbestos except shorts. Despite record production, there were shortages in some grades and at year-end inventories were at their lowest point in many years. Substantial increases were recorded in shipments to Europe, traditionally the company's major market. Sales to the United States, Japan and Korea also showed marked improvement. The forecast for 1970 is for a further increase in sales.

All plants operated at full capacity during 1969. The total asbestos production for the year was at an all-time high and 19% ahead of last year. This was primarily due to the improved yield from ore milled as a result of more selective mining practices and improved beneficiation methods. Stripping totaled 2,108,000 cubic yards and 24,468,000 tons of rock were mined to process 9,975,000 tons of ore.

After allowing for ore consumed in 1969 operations, ore reserves at year-end totaled 144,562,000 tons, calculated as follows: King-Beaver Mine, 41,662,000; British Canadian Mine, 63,645,000; Normandie Mine, 9,906,000; Asbestos Hill, 18,738,000; Other Properties, 10,611,000. Over and above these reserves there are estimated to be probable reserves of 47.6 million tons plus reserves classified as possible amounting to a further 93 million tons. The full extent of the reserves at Asbestos Hill have yet to be determined.

At the *British Canadian Mine* open-pit operations showed a marked improvement over 1968 and the problem of waste removal is gradually being remedied by improved planning and mining procedures.

With the apparent continuing growth in the demand for asbestos, Asbestos Corporation has embarked upon a program to expand its production facilities in the Thetford Mines area. In 1969, at the *King-Beaver Mine*, a new ore preparation and storage plant was completed. At the same time, as part of the overall project, the dryer building at the King-Beaver No. 3 plant was moved to the King-Beaver No. 4 plant, a distance of three quarters of a mile. Work has now commenced on an enlargement of the mining and milling facilities to raise the plant's processing capability to 12,000 tons of ore per day, a 50% increase over its presently-rated capacity. Scheduled for completion in the fall of this year, the estimated costs of the project are $3.5 million for plant expansion and $1 million for the purchase of additional mining equipment.

Three miles to the southwest of Thetford Mines, a 1,645 foot exploration shaft is being sunk into the *Penhale Orebody* at a cost of $2.5 million, with a view to developing the deposit as an underground mine. The shaft sinking had reached a depth of 600 feet by the end of the year. Production from this mine could commence in late 1971 or early 1972 at a rate of 8,000 tons of ore per day.

During the year, the company's wholly-owned subsidiary, Asbestos

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Corporation (Explorations) Limited, was re-named "Minorex Limited" to reflect the broader interests it is undertaking in the field of outside mineral exploration. In partnership with other mining companies, Minorex was actively involved in the examination of various base metal prospects in Western Canada and Alaska and further work in these localities will continue in 1970. Also in 1970, it will participate in joint ventures involving exploration for base metals in Idaho and Nevada.

Asbestos Corporation has entered into an agreement with the City of Thetford Mines whereby it will participate financially in a government-approved urban renewal program which will take place over the period of the next five to ten years. The company endorsed the planned removal of residential areas adjacent to existing mining operations.

THE CAPE ASBESTOS COMPANY LIMITED

For the year 1969, Group profit after taxation amounted to £1,605,000 compared to £1,561,000 the previous year. Consolidated net current assets totaled £10,722,000 in 1969 against £10,675,000 in 1968.

The continuation of the improvement begun in 1968 in the performance of the Amosite mines, together with a strong demand for asbestos fibers of all kinds, has resulted in a substantial increase in earnings in the Mining Division. On the manufacturing side, demand for products in the motor and general industrial field remained at a high level, but a decided weakness was noted in the market for asbestos-cement products.

As the result of offers made to shareholders in the Company, *Charter Consolidated Ltd.* acquired the whole of the Preference Share Capital and increased its interest in the Ordinary Share Capital from 24% to 62%. Since then the issue of further Ordinary Shares in the Company in connection with the acquisition of *Trist, Draper Ltd.* has reduced the interest of Charter Consolidated Limited to 60%.

Manufacturing Division

The largest company in this division, *Cape Universal Building Products Ltd.*, had a difficult year. Demand for its main range of asbestos-cement products was weak and turnover dropped slightly. The program of rationalization of asbestos-cement manufacturing capacity was pressed forward. This included the closure of one factory and the modernization of the plant in two other factories which will be completed during 1970.

Marinite Ltd., had a disappointing year as far as profit is concerned. A second board-making machine was installed and brought into production during the year and 1970 should show an improvement.

As a result of a careful investigation of market prospects, Cape Asbestos decided to extend its production of ceiling tiles and in October acquired, from the Powell Duffryn Group, a factory and plant at Queensferry, Flintshire, for manufacturing mineral wool tiles and other building products.

Cape Insulation Ltd. showed an increase in profit in spite of extra costs related to the re-siting of its administrative offices in Stirling. The Contracts Division produced improved results and the outlook for the company is good. *Cape Insulation (Ireland) Ltd.* had an excellent year, doubling its turnover. In South Africa, *Cape Asbestos*

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Insulations (Pty) Ltd. returned to a satisfactory level of profit, and *Caposite Applications (Pty) Ltd.* traded profitably.

Small and Parkes Limited, manufacturers of Don and Capasco brake and clutch linings, continued to operate at high efficiency and experienced a record volume of sales together with a satisfactory level of earnings.

In Belgium, *Don International S.A.* continued to meet difficulties and as a result, a substantial loss in trading occurred in 1969. Johns-Manville Corporation decided it no longer wished to maintain its share in the joint venture and offered its interest to Cape Asbestos on mutually-acceptable terms. On January 1, 1970, Cape acquired the J-M shares and Don International became a wholly-owned subsidiary. The establishment of this company in Belgium is a vital step to securing S&P's position as a world supplier of friction materials. In South Africa, *Don International (Pty.) Ltd.* achieved a substantial increase in sales and this trend is expected to continue.

Kismet Ltd., a maker of garage equipment at Bedford and Sheffield, moved its machine shop into new factory premises during the year. Trading results were disappointing and action is being taken to rectify this situation. Kismet's sister company in Belgium, *A.T.I. S.A.*, succeeded in restoring profit margins. *Appareillage Technique et Industriel S.A.*, France, also traded successfully.

Tesco/Tecalemit (Pty.) Ltd., Benoni, South Africa, did well and trading was restored to a profitable level.

Mining Division

Improvements in the Mining Division have been reinforced and a substantial increase in earnings was obtained. The new treatment plant at the Amosite mining operations at Penge, in the Transvaal, ran rather smoothly despite the extensions and alterations taking place to increase output. In the mine itself, development of the quarry bands in the new area has enabled the company to gradually move toward a richer and more regular feed to the mill. Ore reserves remain good.

The Blue asbestos fields at *Koegas, Westerberg and Pomfret*, in the northern part of Cape Province, have operated with great efficiency.

Cape Asbestos Fibres Ltd., responsible for the marketing and sale of asbestos fiber, succeeded in arranging for the disposal of the whole of the tonnage available during 1969.

North American Asbestos Corporation, Chicago, Illinois, had another satisfactory year.

Associated Companies

During the year the holding in *Bruno Cape S.A.* was disposed of on favorable terms. Results from *Thermo Plastics Ltd.* were disappointing and early in 1970 the majority shareholder, English Calico Ltd., and Cape Asbestos decided to accept an offer for the whole of this undertaking.

Rane Brake Linings Ltd., Madras, India, consolidated its position in the market. Plans are in hand to expand the production facilities of this company in order to meet the demand for its products. Cape has a minority interest of 19% in this company.

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PERSONNEL NEWS

THE CAPE ASBESTOS COMPANY LIMITED

P. C. D. Burnell, an Alternate Director and a Manager of Charter Consolidated Limited, was appointed a Director of Cape Asbestos. He succeeds *H. R. Fraser* who relinquished his appointment upon taking on other duties outside of the country.

CERTAIN-TEED PRODUCTS CORPORATION

K. S. Steffy was named Marketing Manager of PVC Piping for Certain-teed's Piping & Plastics Industries. He will headquarter at McPherson, Kansas.

Jack T. Grant was appointed Systems Engineer for Certain-teed Badger, Inc. A well-known consulting engineer, he was formerly a Vice President of Hood-Badger Company.

JOHNS-MANVILLE CORPORATION

Joseph G. Battersby, former J-M Sales Manager for Asphalt Paving, was appointed Manager of Corporate Planning. He joined J-M in 1951 as a salesman in the Industrial Products Division and later became salesman for the Asbestos Fiber Division at the Philadelphia Office.

Everett C. Truax is now Operations Coordinator of the Architectural & Engineered Products Division and a Vice President of the J-M Products Corporation. He joined J-M in 1936 and most recently was Plant Group Manager in the Building & Flooring Materials Divisions.

NATIONAL GYPSUM COMPANY

William B. Hoffman has been promoted to Director of Internal Management Consultants, a corporate staff department of the company, suceeding *Joseph E. Des Marais.* A 20-year company veteran, Mr. Hoffman has been a member of the staff of the Internal Management Consultants Department since 1968. He began his company career in the Controller's Department.

Kenneth G. MacIntosh was promoted to Director of the new Department of Industrialized Housing & Urban Development established by the Building Products Division. Reporting to Mr. MacIntosh will be *James J. Myers,* Sales Manager, Industrialized Housing Division, and *Eric F. Grosse,* Manager of Market Development.

RAYBESTOS-MANHATTAN, INC.

Lloyd O. Bentz was named Assistant Director of Research & Development, Manheim, Pennsylvania, Division. He joined the Division in 1953 where he held posts of Section Leader-Friction Materials and Chief Chemist-Organic Materials.

John F. Dale, former Plant Manager of the Fullerton, California, Division, was appointed Manager-Manufacturing, Branch Operations. He will be located in Bridgeport, Connecticut, and will be responsible for the operation of the Corporate Brake Shoe Relining Depots.

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The Standards Association of Australia, Sydney, has published Standard A179, a new standard specification concerning asbestos-cement corrugated sheets for roofing and cladding. It applies to straight or curved sheets and also to autoclaved sheets where the cement is partially replaced by ground silica. The new Standard gives details of composition, designation, thicknesses, tolerances on dimensions of sheets and strength test procedures. It complements Standard CA44, the "Code of Recommended Practice for the Design and Installation of Asbestos-Cement Roofing."

The Indian Standards Institution, New Delhi, has recently prepared two draft Indian Standard Specifications concerning asbestos.

ETDC18(943) concerns "Woven Asbestos Tape for Electrical Insulating Purposes" and applies to plain, unimpregnated woven asbestos tape that has selvedges and is furnished without sizing. The tapes conforming to this Standard are intended for electrical insulating purposes.

BDC2(1365) is a "Method of Test for Tensile Strength of Asbestos Fiber." It covers the method for determining tensile strength of fiber with a minimum fiber length of 10mm. A series of Standards on the testing procedure for asbestos fiber is being formulated to provide standard methods for obtaining physical and chemical properties of fiber to be used in the manufacture of various asbestos-cement products.

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The Mineral Industry of Brazil—Asbestos was listed among the metals and minerals that registered major gains in total production for 1968: 4,360 metric tons (1,356 tons in 1967). The figure for 1968 is the total of production from the states of Bahia and Goias. Asbestos is produced in 3 other states, but data are not available. S.A. Mineracao de Amianto reported the transfer of its principal operations out of Bahia to Cana Brava, Goias. In 1967, exports of asbestos totaled 15 tons, all to Bolivia, and imports amounted to 17,504 tons, mainly from Canada.

The Mineral Industry of Japan—Japan's mineral industry strengthened its high rank in the world principally by processing greater amounts of foreign raw materials. In terms of value of indigenous crude mineral output and value added by processing, the minerals sector was estimated to have contributed about $7 billion to the national economy. In both gross national product and overall industrial output, Japan ranked third in the world in 1968. Production of asbestos totaled 22,000 metric tons compared to 25,000 tons in 1967. Imports of asbestos totaled 199,415 tons against 188,741 tons the previous year.

The Mineral Industry of Turkey—Production of asbestos in 1968 amounted to 3,183 metric tons, compared to 2,196 tons the previous year. The latest import figures reported were for the year 1967 and totaled 5,884 tons (6,673 tons in 1966). No figure was given for asbestos exports in 1967 but the amount for 1966 was revised to 600 tons.

The Mineral Industry of the United Arab Republic—Developments in United Arab Republic's mineral industry in 1968 were chiefly centered in the petroleum sector which registered a significant increase in production and exploration activities. A project to survey the mineral potential of the Aswan region was scheduled to commence in 1969. An estimated 2,500 metric tons of asbestos were produced in 1968 compared to 1,937 tons in 1967. Imports in 1967 totaled 5,527 tons against 6,817 tons in 1966.

The Mineral Industry of Yugoslavia—During 1968, Yugoslavia remained one of Europe's leading producers of nonferrous ores and metals. The mineral industry contributed close to 17% of the gross national product of Yugoslavia and employed about 6% of the total work force in 1968. The following statistics on asbestos were reported: production in 1968, 10,393 metric tons (9,021 tons in 1967); exports in 1967, 1,660 tons, mostly to the United States; and imports in 1967, 18,644 tons, principally from the U.S.S.R., Canada and Botswana.

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ASBESTOS STOCK QUOTATIONS

Close—June 19, 1970

Abitibi Asbestos	*$4.50
Advocate	**$2.00
Asarco	26½
Armstrong Cork	26
Armst Cork (pfd 3.75)	51
Asbestos Corporation	*$27.00
Bendix	24
Bendix (pfd 3)	42⅛
Carlisle	11¾
Cassiar	*$19.50
Certain-teed	14⅞
C-teed (pfd .90)	15¾
Conwest	*$10.75
Flintkote	20¾
F-kote (pfd-A 4.50)	67
F-kote (pfd-B 2.25)	30½
GAF Corporation	9⅜
GAF (pfd 1.20)	16½
Garlock	14⅞
Grace	23¾
Gulf & Western	14⅝
G&W (pfd 1.75)	50¼
G&W (pfd 3.50)	60¼
G&W (pfd 3.87)	40½
G&W (pfd 5.75)	56
Illinois Central	18½
Ill. Central (pfd 3.50)	41⅜
Johns-Manville	33¼
Maremont	8¼
National Gypsum	15⅜
Natl Gypsum (pfd 4.50)	56½
Panacon	2⅝
Porter (pfd 5.50)	64½
Raybestos-Manhattan	26⅞
Unarco	8
Union Carbide	35¾
Uniroyal	16⅛
Uniroyal (pfd 8)	92½
United Asbestos	3⅛

*Canadian currency
**Canadian currency; Close—June 16
(Source: The Wall Street Journal)



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

PB 187 712—Technical/Economic Study of Solid Waste Disposal Needs and Practices, Volumes One through Four, by Combustion Engineering, Inc., Windsor, Connecticut, for the Department of Health, Education and Welfare ($10.00 per paper copy; 65¢ per microfiche).

PB 188 458—Planning for Non-Renewable Common Mineral Resources in Urban-Suburban Environs, by the U.S. Bureau of Mines.

SC ARPIC 1012—Applicability of Heat Pipes to Energy Conversion Systems, by Sandia Laboratories, Albuquerque, New Mexico, for the Atomic Energy Commission.

TSP69-10055—Thermal Expansion Properties of Aerospace Materials, by E. F. Green of North American Rockwell Corporation under contract to Marshall Space Flight Center.

Y 1684—Fiber-Reinforced Graphite Composite Fabrication and Evaluation, by Union Carbide Corporation, Oak Ridge, Tennessee, for the Atomic Energy Commission.



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ASBESTOS PATENTS

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

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

U.S. Patents issued from April 14 through June 2, 1970.

3,509,008—Decorative Noncombustible Ceiling Tile, by G. J. Adomshick & R. G. Quinn (assigned to Johns-Manville Corporation, New York City), April 28.

3,515,531—High Temperature Traction Rolls, by N. Shorr & H. W. V. Willems (assigned to PPG Industries, Inc., Pittsburgh, Pennsylvania), June 2.

Mineral Exploration, Mining and Processing Patents 1969, by Oliver S. North, is now available at $25.00 per copy, including postage if sent via regular book-rate mail. The fully-indexed, 260-page volume of abstracts of patent literature is an excellent reference for those engaged in exploration, mining, beneficiating and concentrating, extracting, refining and supplying reagents and equipment to the minerals industry. There are eight abstracts relating to asbestos among the 650 abstracts listed including United States Patents on "Conditioning of Defiberized Asbestos," "Defiberization of Asbestos" and "Purification of Asbestos;" British Patents on "Defiberizing of Asbestos" and "Improving Properties of Asbestos;" two Canadian Patents on "Purification of Asbestos;" and a Russian Patent on the "Separation of Dust from Asbestos."

Correction—The April 1970 issue of ASBESTOS (page 42) contained the announcement that St. Matthews Pulp Company, a division of Howard Zuker Associates, planned to reopen the Palmer Asbestos & Rubber Company plant at St. Matthews, Kentucky. We have been advised by Mr. S. W. Palmer-Ball, Vice President of Palmer Asbestos, that the item is incorrect and misleading, and to completely correct the information, we quote directly from Mr. Palmer-Ball's letter: "Palmer Asbestos & Rubber Corporation's plant in Louisville (St. Matthews) has never closed. Palmer Asbestos & Rubber Corporation still operates its plants at Louisville (St. Matthews) and Chicago. We have no corporate connection with the St. Matthews Pulp Company or Howard Zuker Associates. They lease no portion of our Louisville (St. Matthews) facilities."

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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?

(July 1920 ASBESTOS)

New Advertiser: Asbestos Fibre Spinning Company

This issue contained a biographical sketch of Major-General Sir John W. Carson, C.B., the first President and Managing Director of Consolidated Asbestos Limited.

An article appeared on the subject of asbestos protective clothing, indicating that practically complete wardrobes of such clothing were then available.

To avoid confusion with other companies having similar names, the American Asbestos & Magnesia Company of Chicago changed its name to The Asbestos & Magnesia Materials Company. Mr. J. C. Kistler, formerly with H. F. Watson Company of Erie, Pennsylvania, became Salesman and Superintendent of the newly-named company.

The Asbestos Shingle, Slate & Sheathing Company of Ambler, Pennsylvania, announced the development of a green asbestos shingle in which the color is everlasting.

The Asbestos Corporation of Canada raised the dividend rate on its common stock from a 5% to a 6% basis and on the preferred stock from a 6% to a 7% basis.

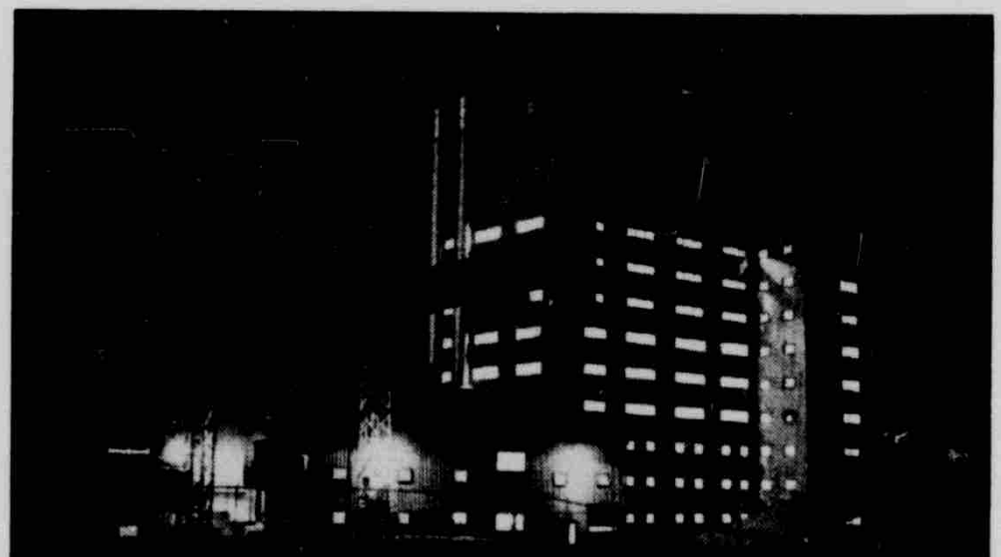
Consolidated Asbestos Limited declared a quarterly dividend of 1¼% on its common stock.

J. R. Swift, Vice President and General Manager of the Franklin Manufacturing Company was receiving congratulations on the birth of a son.

Because of increasing demand for fiberized Blue crude, Asbestos Limited acquired premises adjacent to its existing plant at Bound Brook, New Jersey, for expansion of its productive capacity.

With the resignation of Major N. E. Newman, Consolidated Asbestos Limited announced the closing of its New York office. Major Newman was President of Asbestos Limited.

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Two good starts...

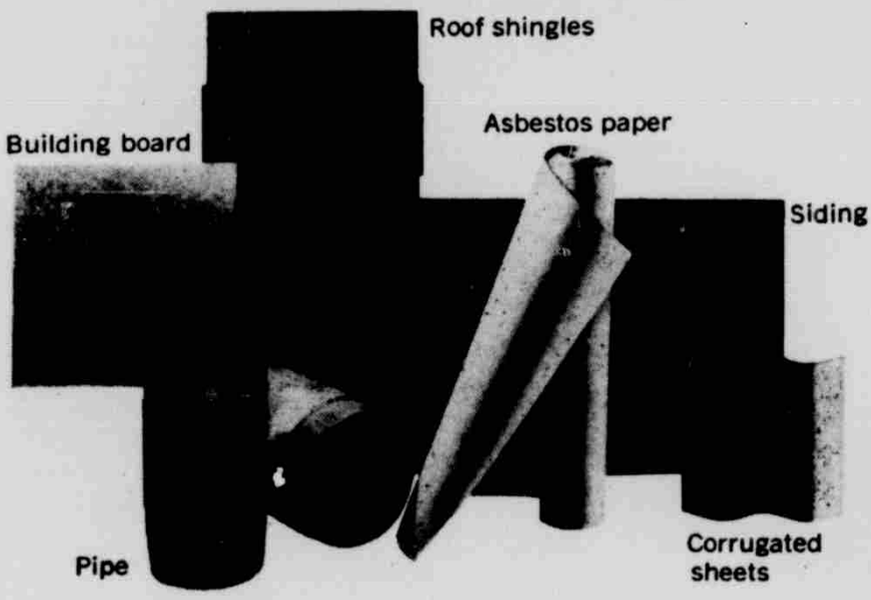
Start with GAF asbestos fibers and DRYLON® synthetic fiber felts and you'll end up way ahead in end-product quality.

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

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

Put this starting team of quality GAF products to work for you. For full details write to: GAF Corp., Industrial Products Division, 140 W. 51 St., New York, N.Y. 10020. International Operations, 1180 Avenue of the Americas, New York, N.Y. 10036.

toward a lot of happy endings.



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