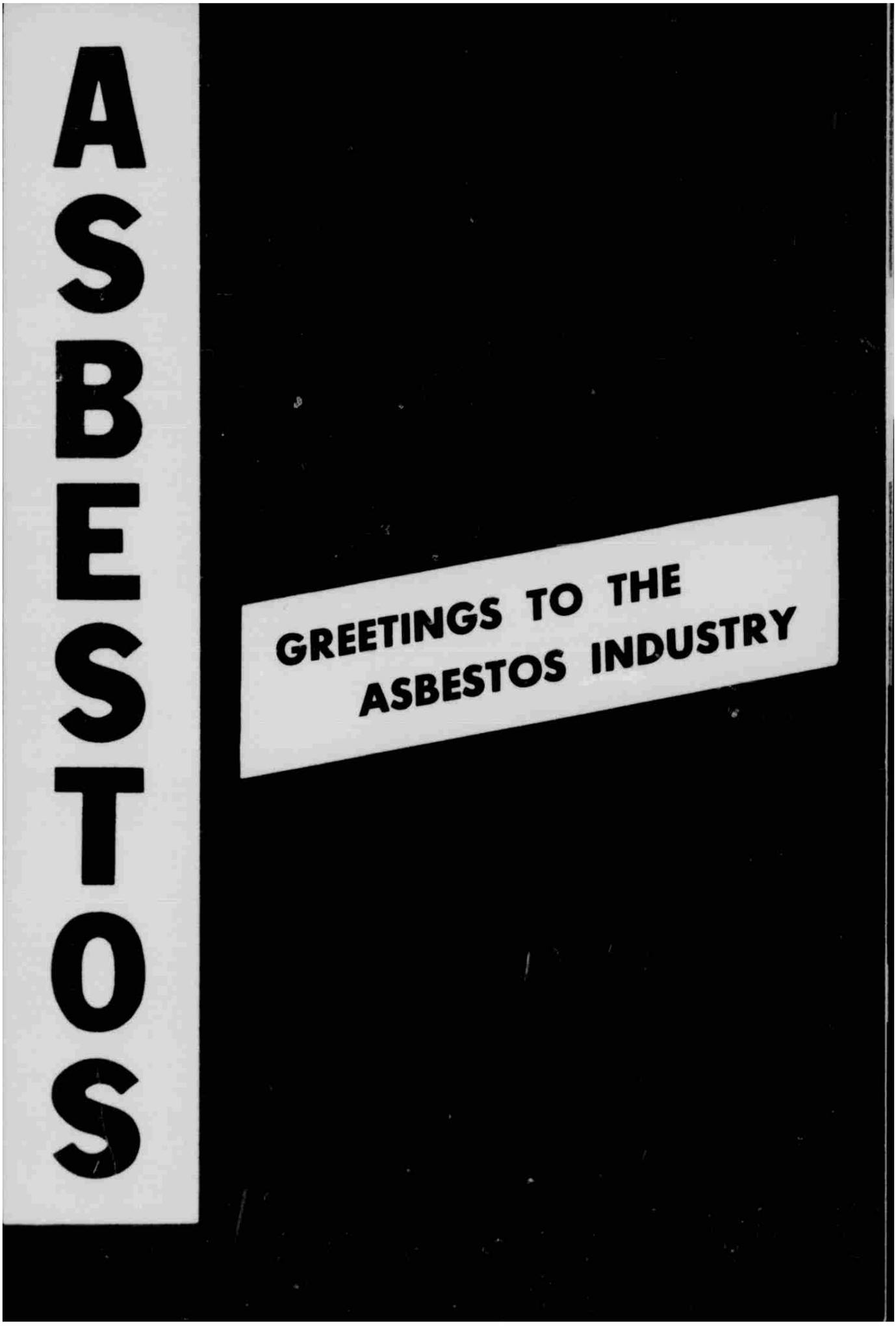


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Speedlag can be supplied in several weights and two ASTM Grades. Underwriters Grade base fabrics are manufactured to Fed. Spec. SS-C-466e, 7/2/64. AAA Grade base fabrics are available for insulation on merchant vessels covered by U.S. Coast Guard Specifications—Subpart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

Contact us for full details on new prepasted Speedlag.

Raybestos RM Manhattan

ASBESTOS TEXTILE DIVISION BRIDGEPORT, CONN. 06603

ASBESTOS

VOLUME 52 JANUARY 1971 NUMBER 7

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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GREETINGS TO THE ASBESTOS INDUSTRY

AMERICAN ASBESTOS TEXTILE CORPORATION

It is my pleasure to take this opportunity to convey to our many friends in the Asbestos Industry our best wishes for a happy holiday season and a very prosperous 1971.

1970 was a very successful year for American Asbestos, with an increase in both production and sales. We are looking forward to the challenge of the coming year and will continue to meet the increasing demand of our current market with new and improved products.

J. L. Rainey

PRESIDENT

ASBESTOS CORPORATION LTD.

Again it is a pleasure to convey to all our friends in the worldwide Asbestos Industry our best wishes for a happy and prosperous New Year.

In 1970 we attained new records in production and sales of asbestos. Expansion plans and construction in Thetford Mines, Asbestos Hill in New Quebec, and in Germany have kept us all fully occupied during the year. Partial completion will permit us to meet expanded markets in 1971. The following year should see our presently envisaged expansion plans completed.

W. W. Oughtred

PRESIDENT & CHIEF EXECUTIVE OFFICER

ASBESTOS INVESTMENTS (PTY) LTD.

It is a privilege and it gives me great pleasure to extend to my many good friends in the worldwide Asbestos Industry my greetings and best wishes for a happy and prosperous 1971.

The Asbestos Industry, whose output has doubled within the last decade, continues to enjoy a very good outlook as

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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.

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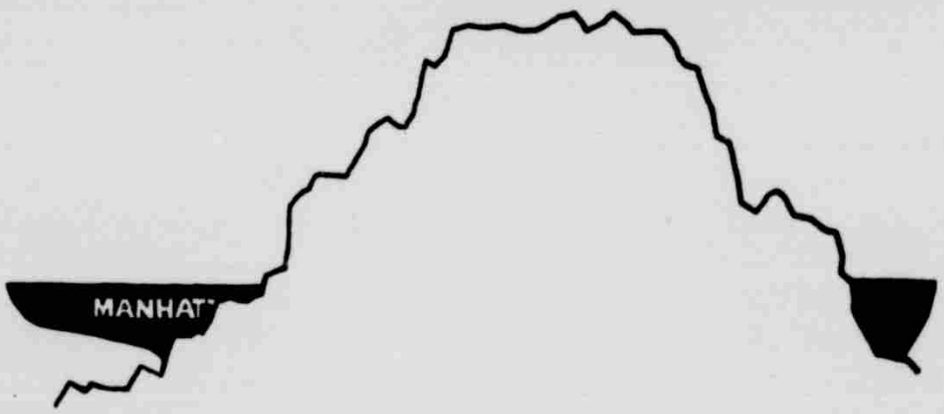
Chemically stable and resistant to water damage, asbestos will neither burn nor rot. And it easily withstands severe atmospheric changes.

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.

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demand from most consumer groups is strong and likely to expand at an even accelerated rate during the forthcoming years. The situation, however, also brings its burden of responsibility for the asbestos producers who should match the increasing demand and nevertheless keep costs down and quality standards up to allow for further expansion of the asbestos-using industries in the face of growing competition from other materials. Research and development aiming at still improved quality specifications, better environmental control, increased efficiency and rationalization in production, handling and transportation, in search of new deposits and, on the other hand, of new products should be vigorously motivated and supported by all concerned, both on the producers' and on the consumers' side, to ensure for a continuous and solid growth of our industries in a long future.

Ernst Schmidheiny

CHAIRMAN

BBA GROUP LTD.

Sales of asbestos products have been buoyant, particularly in the export field.

Production efficiency in our West Auckland factory has improved. We were pleased to have a visit from Lord Robens (Chairman of the National Coal Board) who toured the works, where he saw men who had become redundant as coal miners, manufacturing asbestos yarn—quite a change for them.

Our best wishes to our friends in the Asbestos Industry.

F. Pearson

CHAIRMAN

THE CAPE ASBESTOS CO. LTD.

I am very pleased to have this opportunity of extending to everyone in the Asbestos Industry my best wishes for Christmas and the New Year.

The year ahead presents greater problems than ever before in many countries in the world. The rapid rise in wages and costs of all kinds intensifies the challenge to management to ensure maximum efficiency in every aspect of company

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operations. I am confident that this challenge will be met and that a more stable industrial balance will be achieved. Nevertheless, exceptional efforts will be called for from every level of industry, unions and government.

R. H. Dent

CHAIRMAN

CAREY-CANADIAN MINES LTD.

It gives me great pleasure, on behalf of our operating and sales staff, to wish our many customers in North America and overseas, a very merry holiday season.

This has been an exceptionally busy year in the development of new uses for our products and we look forward to a continuation of this trend in 1971.

R. J. Merrill

PRESIDENT & GENERAL MANAGER

CASSIAR ASBESTOS CORPORATION LTD.

On behalf of the staffs of the Cassiar and Clinton Mines and of the Transport Division, I extend to our mining friends in Canada and to our customers in the United States and abroad, our best wishes for the Christmas Season and the New Year.

It is to be hoped that the series of labor disruptions that occurred throughout the transportation systems and at the mines during 1970 are now a thing of the past and we are grateful for the cooperation received from our customers.

In spite of this it has been a record year for the mines and we are looking forward to the completion of the mill extension at the Cassiar Mine which will further improve the output in 1971.

J. D. Christian

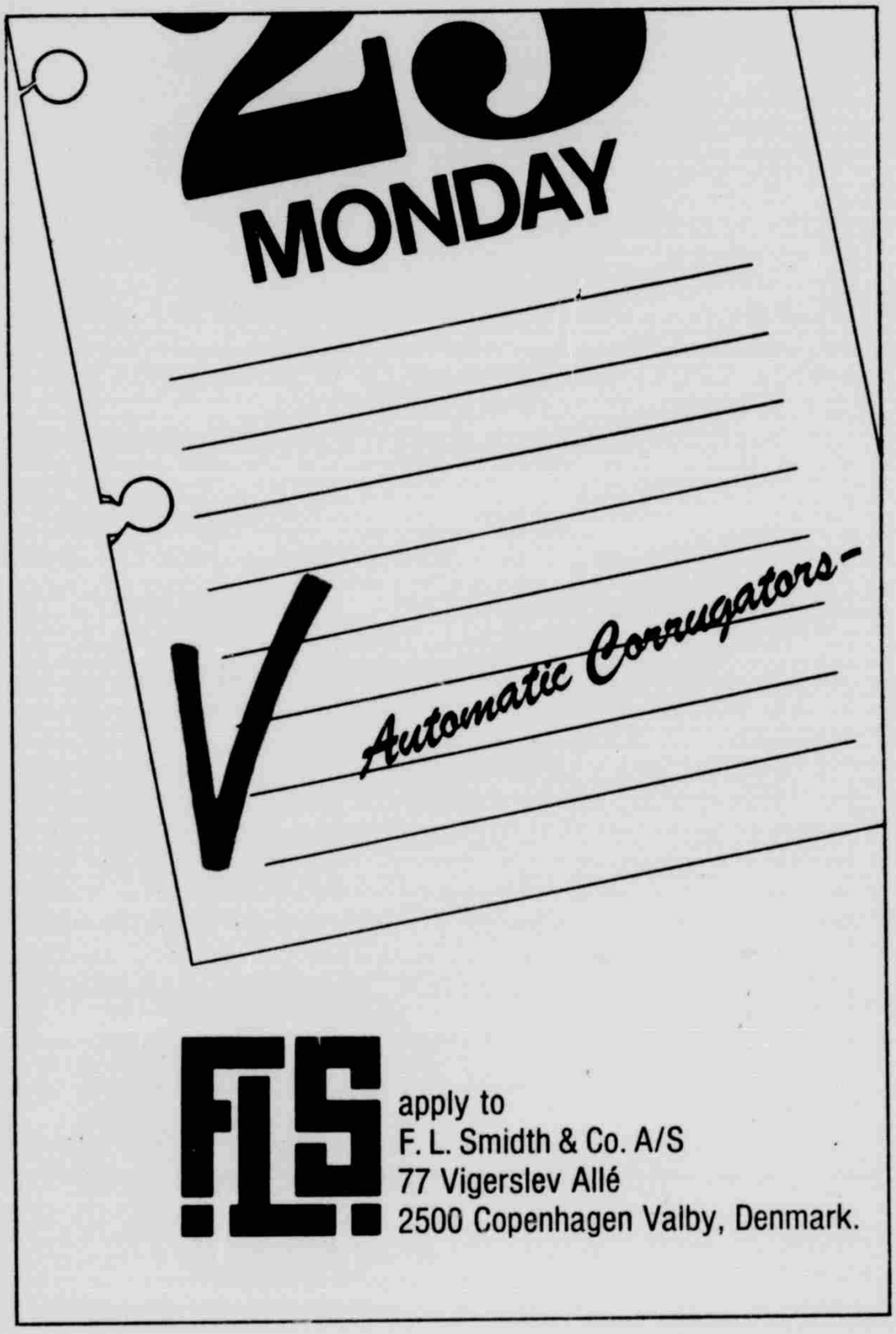
PRESIDENT

CERTAIN-TEED PRODUCTS CORPORATION

It is again a pleasure to have this opportunity to extend season's greetings to all our friends in the Asbestos Industry.

In 1970, Certain-teed continued to expand its highly diversified line of building products which ranges from as-

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bestos-cement pipe that helps meet our national growing need for sewer disposal, water distribution, irrigation and pollution control systems, to factory-produced single and multi-family modular dwellings that provide one solution to our explosive housing problems.

During the next decade the protection and improvement of our environment—its air, water, land—will be one of the nation's foremost challenges. This year, Certain-teed stepped up its efforts to maintain the ecological balance at our production facilities with a far-reaching air and water pollution control program. We believe that we have met this challenge head-on with a realistic approach to pollution control that will provide a better environment for all of us.

Best wishes to all for a productive and prosperous New Year.

Malcolm Meyer

PRESIDENT & CHAIRMAN OF THE BOARD

THE FLINTKOTE CO., INC.

It is always a pleasure this time of the year to extend season's greetings to our good friends and readers of ASBESTOS from The Flintkote Company and its Canadian subsidiary, Flintkote Mines Limited.

1970 has been a year of sales growth and profit pressures for Flintkote like most companies in the building and construction industries. In retrospect, sales growth was most encouraging; in prospect, we are encouraged by the easing of interest rates and more public concern about the shortages of housing. These and other changes hold hope for progress and Flintkote continues to equip itself to serve the changing needs of the marketplace while maintaining its traditional reputation for quality.

Flintkote is pleased to be a part of the asbestos fiber industry and we look forward to continuing this relationship in 1971.

May the year ahead be one of peace and prosperity for those who read ASBESTOS and for those who are responsible for its publication.

James D. Moran

EXECUTIVE VICE PRESIDENT

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BELL ASBESTOS MINES LTD.

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CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

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GAF CORPORATION

The year 1970 was a relatively good year for GAF Corporation's Industrial Products Division, even though the General Motors strike was a limiting factor on sales of some automotive products during the latter part of the year.

It is generally expected that the pent-up automotive demand and the Federal Reserve's actions easing the money situation should stimulate the economy during the first half of 1971; however, the second half of the year is regarded with caution by most major economists. GAF anticipates generally improved sales and earnings in 1971.

GAF Corporation will continue its efforts aimed at curtailing pollution through expenditures in excess of $10 million over the next several years. The company has invested a like amount since 1965 in facilities designed to eliminate air, water and noise pollution.

We at GAF welcome this opportunity to express our sincere wish that all our friends in the Asbestos Industry will enjoy a very happy holiday season and a prosperous New Year.

R. P. Fraser, Jr.

VICE PRESIDENT

JOHNS-MANVILLE CORPORATION

It is a pleasure, through ASBESTOS Magazine, to send greetings to our many friends and associates in the Asbestos Industry. On behalf of the thousands of men and women in the Johns-Manville family, I would personally like to extend our enthusiastic good wishes for the holiday season.

Asbestos fiber export sales reached a record high this year reflecting the expanded use of asbestos-based building materials in Europe, the Far East and Latin America, while domestic sales failed to reach their 1969 levels due to the general economic slowdown. This influence was somewhat offset by a small increase in fiber prices.

For the year ahead, we look forward with confidence to continued growth so as to better serve our existing customers and create new markets for asbestos products.

A happy and prosperous New Year from J-M.

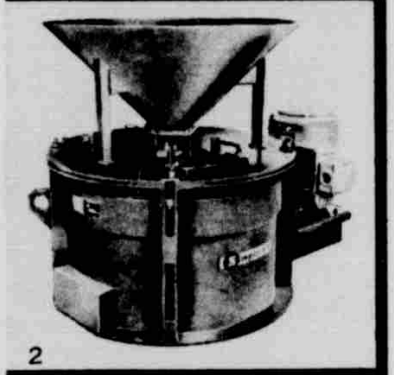
W. R. Goodwin

PRESIDENT

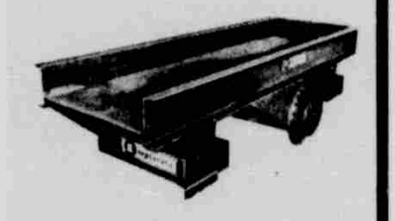
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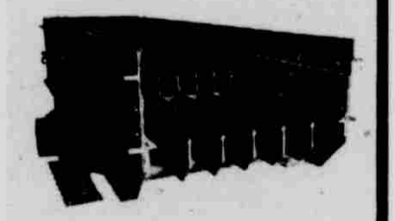
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LAKE ASBESTOS OF QUEBEC LTD.

It is with pleasure that we once again extend, through ASBESTOS, our best wishes for 1971 to all our friends and customers in the Asbestos Industry.

In spite of uncertain economic conditions, especially in the U.S.A., the past year was a good one for the asbestos fiber producing industry, with many new asbestos mine developments in progress—indicating confidence in the future for increased demands and new uses.

While we view 1971 with a certain amount of cautious optimism, the long term looks encouraging for our Industry.

We shall continue our endeavors for improved and more efficient service to our customers throughout the world.

Michael J. Messel

PRESIDENT

NATIONAL GYPSUM COMPANY

Our subsidiary, National Asbestos Mines Ltd., is concluding one of the finest years in its history.

In 1970 we were able to benefit by our recently modified plant which enabled us to produce increased fiber production . . . with better product uniformity. I am happy to report we were able to match our increased production with sales that exceeded our expectations.

We look to 1971 as a year that will provide many challenging opportunities for the Asbestos Industry. I would like to take this opportunity to express our good wishes to our customers, agents and many friends in the Industry for a most rewarding year ahead.

John P. Hayes

PRESIDENT, BUILDING PRODUCTS DIVISION

NICOLET INDUSTRIES, INC.

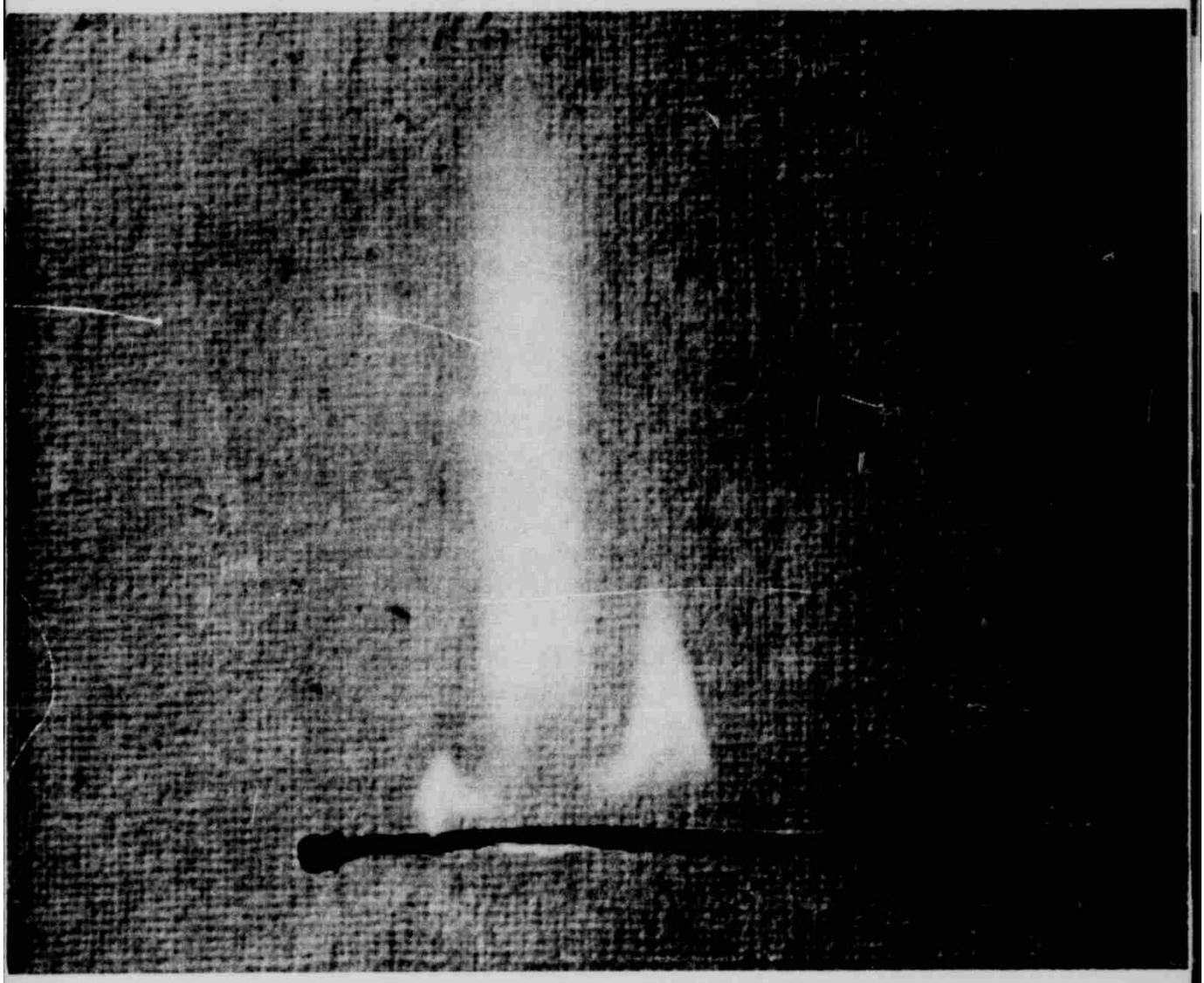
Greetings and best wishes to the Asbestos Industry and to the readers of ASBESTOS from Nicolet Industries, Inc.

We have completed a difficult year, one marked by tight money, labor problems, an erosion of consumer confidence and sluggish business activity. It seems apparent that we are in a period of major adjustment and accommodation to changing market conditions which must be completed before

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Asbeston protects naturally or unnaturally.



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we can move forward again. Let us hope that the situation will stabilize early in the new year.

In 1970, through the creation of a new company, Nicotex, Inc., Nicolet entered the asbestos textile field in partnership with Rex Asbestwerke Graf von Rex KG of Schwaebisch Hall, Germany. We are quite optimistic about this new venture. We will be offering to the trade a broad range of yarn sizes and fabric designs having inherently low dust characteristics. These materials can be produced in pure asbestos form and may also be supplied in forms which incorporate a wide variety of additives for special applications. We believe that this type of product will expand the total market for asbestos textiles.

A prosperous and successful 1971 to all.

Guy George Gabrielson, Jr.

PRESIDENT

RAYBESTOS-MANHATTAN, INC.

We are pleased to extend season's greetings from Raybestos-Manhattan to the Asbestos Industry through the columns of ASBESTOS. Our predictions for a slowing down of the American economy during the past year were optimistic. We suffered from a strike at our Passaic plant as well as from the General Motors strike during a period when general business conditions were poor.

Hopes for the coming year are based on an upturn in the automotive market and a gradual improvement in the overall economy. Our organization is better equipped with people, plants and products to meet these challenges.

"Asbestos" has been a much maligned word during the past year and we are hopeful that the many favorable features of this unique raw material will be stressed in 1971. We must be prepared to speak up in defense of our Industry and not let irresponsible statements be misinterpreted to the public.

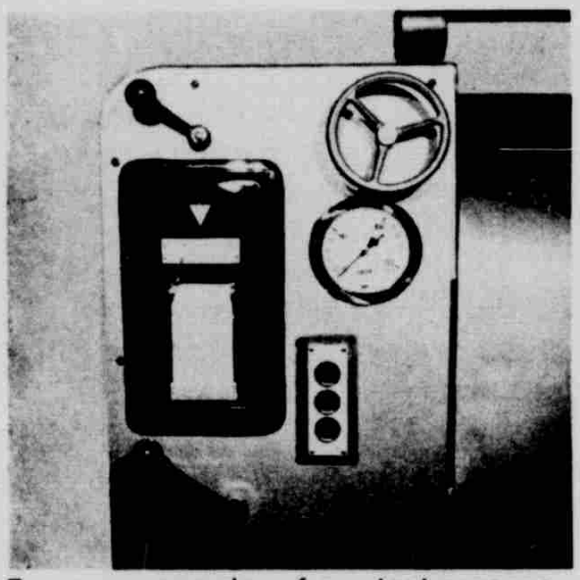
Let us hope that we can all share in an era of improved peace and prosperity starting in 1971.

William S. Simpson

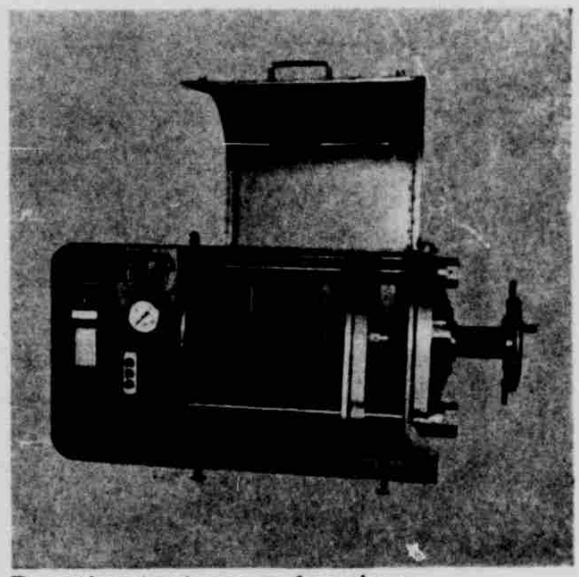
PRESIDENT

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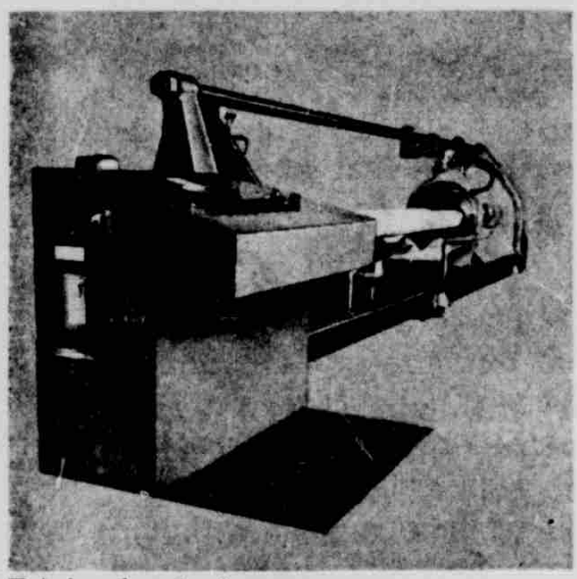
Choose performance and efficiency



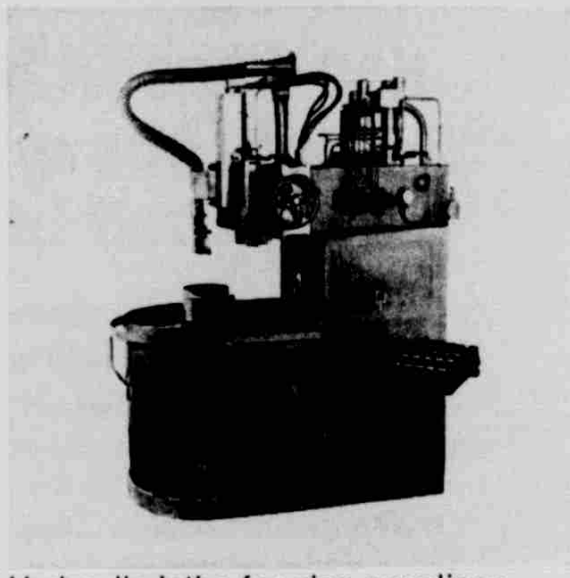
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TURNER & NEWALL LTD.

In 1970 we at Turner & Newall celebrated our Golden Jubilee, a time not merely to reflect upon past achievements, but rather to be planning future progress. T&N has been a prominent member of the Asbestos Industry for fifty years and its roots in the Industry stretch back a further fifty. We have played our part, with others, in expanding the industrial uses of asbestos materials. Looking ahead I feel confident that asbestos will continue to play an important role in world industry. We shall see the development of new composite materials containing an asbestos fiber reinforcement as well as the improvement of the products we regard as traditional, such as asbestos textiles, asbestos cement and friction materials. We shall, of course, have to face the challenge of alternative materials, but none of these can match the unique combination of properties possessed by asbestos for the production of materials to provide safety and protection. We must take every opportunity of demonstrating its advantages —in the marketplace and in the forum of public debate.

To our many friends in the Asbestos Industry throughout the world we at Turner & Newall send greetings. The New Year will bring its problems to all of us but we are confident that they will be overcome and that our Industry will continue along a path of expansion.

R. M. Bateman
CHAIRMAN

UNIROYAL FIBER & TEXTILE

It is always a pleasure to have the opportunity to extend our best wishes for a prosperous New Year to our friends in the asbestos textile industry.

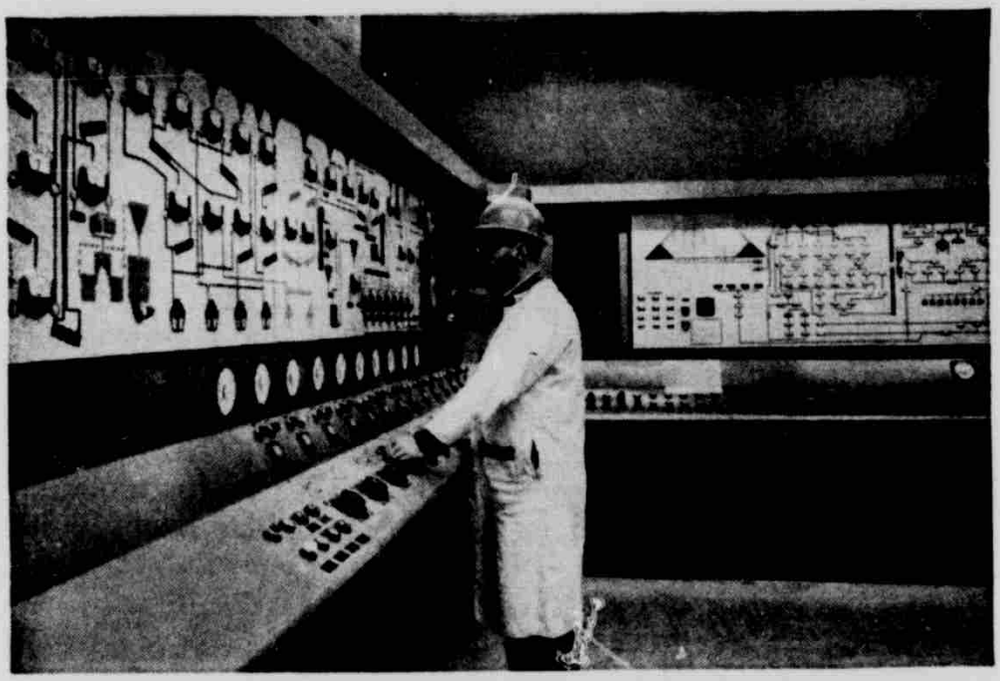
We at Uniroyal are approaching the new year with confidence and enthusiasm. We are confident that 1971 will continue to reflect an increase in the demand for asbestos products. We are enthusiastic about our new market opportunities which are a result of our past research and production efforts.

In the coming year we will continue to provide improved and more efficient service to our customers whose past cooperation has been sincerely appreciated.

To all then, may 1971 be both pleasant and successful—a year of peace, prosperity and good will.

Clarence H. Sigler, Jr.
VICE PRESIDENT & GENERAL MANAGER

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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

Naturally we want to control the quality and uniformity of the many grades of asbestos we produce. So to meet exact customer requirements, we use sophisticated equipment as seen in this Thetford Control Center.

It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P. Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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CAREY-CANADIAN ASBESTOS PAVES THE WAY

Carey-Canadian Mines Ltd., East Broughton, Quebec, supplied 116,000 pounds of its "Pavebestos" brand, Grade 7M asbestos fiber for mixing with other materials to pave the new $57 million, six-lane "Pierre Laporte Bridge" that links the Quebec City area with the Trans-Canada Highway and with communities on the south shore of the St. Lawrence River. The bridge was 4½ years in the building and its 2190-foot suspended span is the longest in Canada. The main suspension cables are anchored by two 127,000-ton concrete blocks and the wires used in the cables could stretch 17,000 miles.

Paving the 3715-foot-long deck took 3400 tons of asphalt-asbestos-cement mixture, laid 2" deep. Consisting of 2% asbestos fiber, 2% Portland cement, 7½% liquid asphalt, 35% crushed stone and the balance in sand, the mixture was poured onto a sand-asphalt bed that, in turn, was laid on a thin, glass fiber membrane. The protective membrane rests atop the pavement base that consists of 4" deep steel grid sections, filled with concrete.

The purpose of the asbestos fiber in the asphalt is to act as an interlocking web that binds the asphalt and other ingredients together and prevents the oils in the petroleum-based asphalt from seeping away due to wear, tear and high temperatures. By diminishing the porosity of the asphalt mix the asbestos fiber helps to provide a cohesive and elastic surface ideally suited to withstand weathering and the axle loads of thousands of trucks and cars that use the bridge daily.

Next Issue . . . K&M Chapter of the History of the U.S. Asbestos Textile Industry

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ESB/FLINTKOTE MODULAR WALL SYSTEMS

ESB Incorporated, Philadelphia, Pennsylvania, and The Flintkote Company of White Plains, New York, have entered into an agreement covering the production and marketing of a new line of modular wall systems for interior, exterior and combination interior-exterior construction applications.

The undertaking combines the chemical coating technology of ESB's Atlas Minerals & Chemicals Division and the construction materials experience of Flintkote's Insulrock Products Division. The new product line was developed through cooperative research and engineering conducted by the two firms to meet the market's demand for an aesthetically attractive, labor-saving construction system.

The new wall system gives builders a total wall unit, complete with both interior and exterior surface finishes, in a single modular panel. The variety of decorative finishes available provides a flexible construction system which in addition to "total wall" applications is suitable for interior partitions and walls as well as for exterior facing and curtain wall applications.

Panels consist of a Flintkote Insulrock core faced with a variety of custom finishes including simulated marble, exposed aggregate, ceramic-like glazes, wood grains, vinyl fabrics and other materials. Except for the exposed aggregate all panel surfaces are seamless, homogenous, non-porous and easy to clean. They offer maximum resistance to moisture permeability and abrasion. Panel cores are manufactured from select chemically-treated, long-wood fibers, coated and pressure-bonded with a fire-retarding, moisture-resistant Portland cement binder.

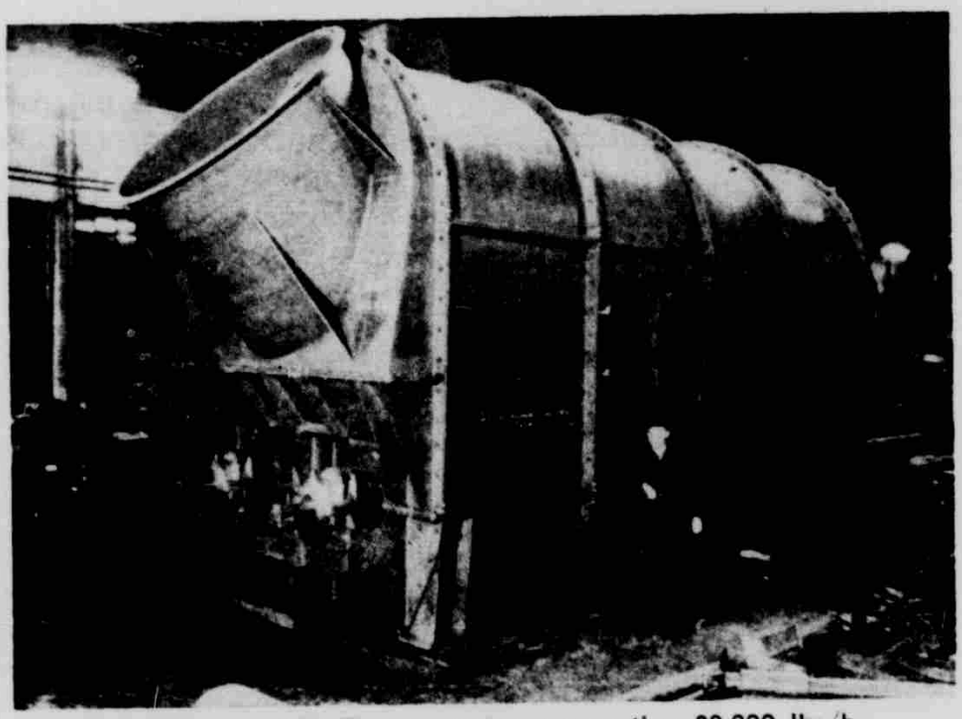
The panels are light in weight, have good insulating properties and acoustical qualities, are non-combustible and provide a high structural rigidity-to-weight ratio.

ESB's Atlas Minerals & Chemicals Division has appointed M. C. Guarino Associates, Incorporated, Rumson, New Jersey, as its national sales agency. The Guarino organization has extensive experience in the construction industry and was involved in the development of the new wall systems. Installation of the panels at construction sites will be handled by Flintkote's nationwide distributor-contractor organization and other local contractors.

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MARKET CONDITIONS

General Business.

General business shows no signs of a quick turnaround. While another one-quarter percent cut in the prime interest rate and a definite trend toward lower interest rates on long-term corporate bonds should act as a stimulant to the economy, it must be remembered that an easing in credit of this type or a move by the Federal Reserve Board to increase the money supply would not be reflected by a pickup in business for some months to come. Meanwhile, unemployment is expected to increase still further to a probable six percent figure and even though the average American family's savings are at a very high level, the consumer seems reluctant to part with these funds because of his uncertainties concerning his immediate future job prospects and his questions as to how long present unsettled conditions may prevail.

There is no doubt that psychology, on the part of consumers and businessmen, will have a somewhat negative effect on the course of business during the early months of 1971.

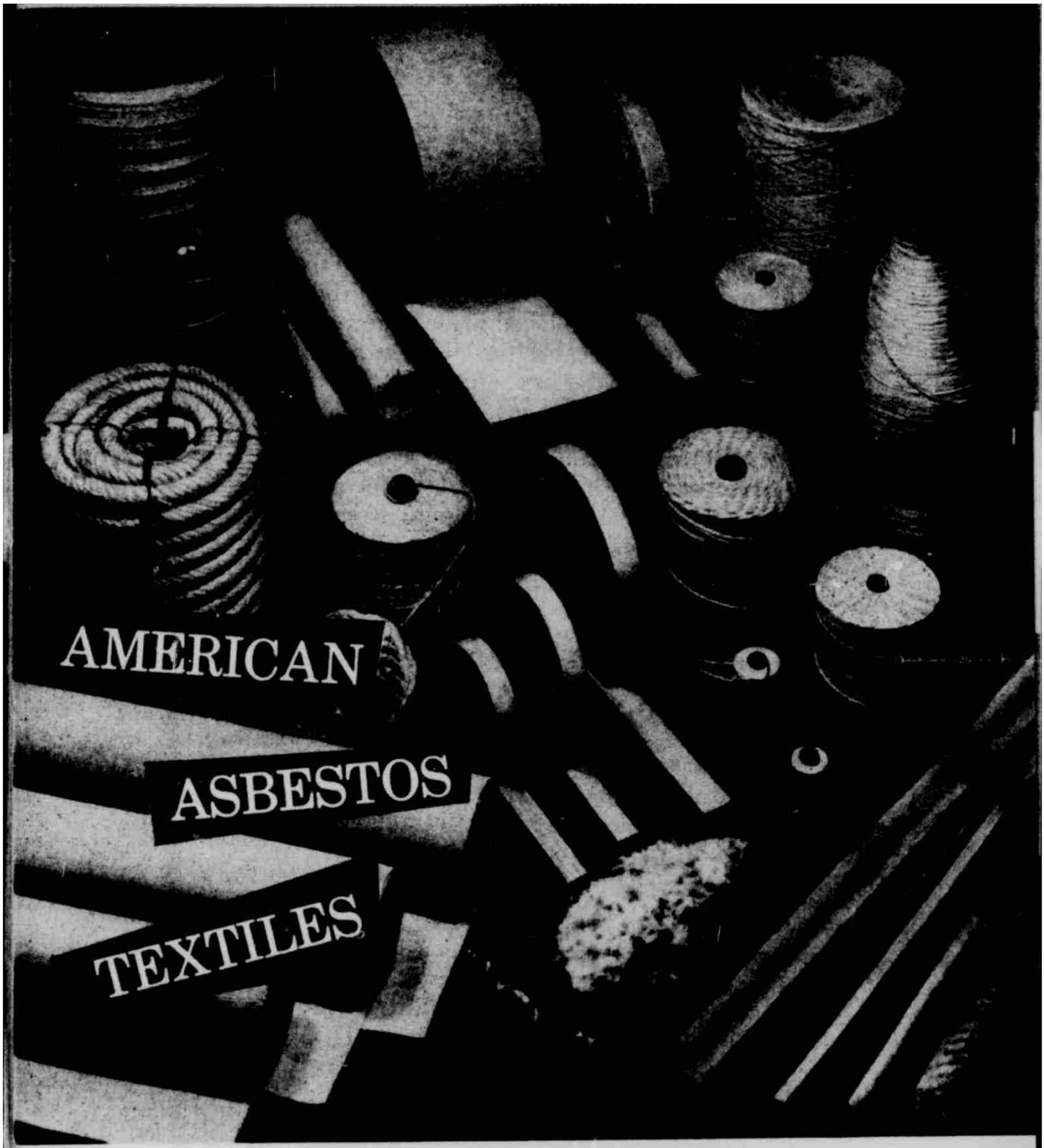
Asbestos Fiber.

Exports of asbestos fiber from Canada during the first nine months of 1970 were about 2% less than those for the same period of 1969. It is expected the totals for the entire year will be at, or above, the 1969 figures. Consumption of fiber by Canadian manufacturers has been lower than that of 1969 due to softness in the automotive and construction fields, corresponding to the situation in the U.S.

In general, supply and demand are in balance except for a few grades where slight excesses in supply are apparent, but these imbalances are of minor proportions. Demand for Canadian fiber in world markets outside the U.S. is strong and world consumption for 1971 promises to keep all producers working at close to capacity.

The market for Arizona filter fiber continues strong and producers are hard-put to meet the demand for certain grades. The outlook for 1971 is good.

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Asbestos—Manufactured Goods.

Asbestos Textiles: Shipments of asbestos textiles have held up well during the last quarter of 1970 despite the slowdown in general business. Contributing to this situation were deliveries against orders placed prior to recent price increases. Barring some unforeseeable developments, producers expect good businss through the first quarter of 1971.

Asbestos Brake Lining: The replacement market for friction materials is a bit soft which is normal for this season of the year. The OEM market should strengthen as General Motors gets back into full production. Several major manufacturers have substantially increased their capacity for manufacture of disc brake pads, anticipating a rapid growth of this market in the next few years. A somewhat disturbing development is the accelerated search for fibers other than asbestos for use in friction materials, spurred by adverse publicity regarding asbestos' alleged contribution to ecology problems.

Asbestos Paper: The market for this material shows no improvement and is expected to continue relatively slow until the second or third quarter of 1971.

Asbestos Millboard: The fourth quarter failed to show the improvement expected some months ago, due to the GM strike and lack of expansion projects in the steel industry. There is nothing in the current picture to indicate any substantial improvement in the near future.

Asbestos Felt: Demand for felt continues quite strong and there are no signs of a letup at this time. Producers are hard pressed to meet requirements of their customers.

Asbestos Corrugated & Flat Sheets: The low level of industrial construction continues to exert depressing effects on the market for asbestos-cement sheets of all types. Until general business improves to the point where new plants are required the outlook for an upturn in sales is not good.

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High Pressure Insulation: Sales of high pressure insulations continue quite strong. While prices are a bit soft there are signs that they may firm up in the near future if demand continues at present levels. Good business is indicated for the first quarter of the new year.

Asbestos-Cement Shingles, Roofing & Siding: The market for these materials continues unchanged. While roofing sales are relatively good, siding sales continue weak. No great change is expected in the foreseeable future.

Asbestos-Cement Pipes: While the market for these materials is not strong, some improvement was noted during the last quarter of 1970. Lower interest rates and an upturn in housing construction should eventually result in improved sales but the effects of such changes will probably not be felt until the last half of the year.

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

The Asbestos Factbook

Have you often searched through many volumes to obtain facts about asbestos? Could you use a compact and informative 28-page booklet that is a handy, complete and up-to-date reference on the subject of asbestos?

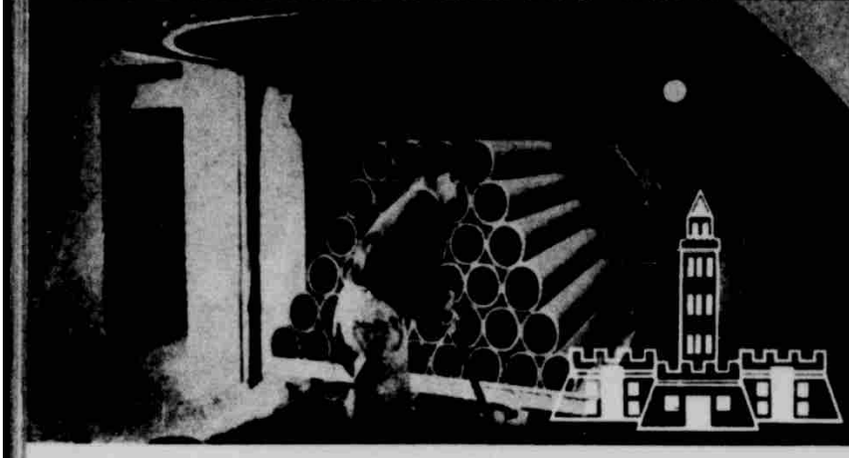
If the answer is "yes" then *The Asbestos Factbook* is for you! It will be useful when preparing luncheon talks and training sessions; educators will welcome it; and it would readily answer many of the inquiries received by members of the Asbestos Industry. Many companies in the Industry will want to circulate copies to their sales, marketing, public relations and advertising people.

The Asbestos Factbook contains individual chapters on: The Origin of Asbestos, Terse Asbestos Facts, Where Asbestos Is Found, The Uses of Asbestos and Asbestos Products, Chemical Compositions of Various Types of Asbestos, descriptions of The Quebec Standard Asbestos Testing Machine and of the QAMA Standard Procedures for Bauer-McNett Testing, and Asbestos Grades of Canada, Arizona, California and South Africa.

Order your copies now of the just published, new edition of *The Asbestos Factbook* — only 75c per copy (bulk rates on request). Write to ASBESTOS, P. O. Box 471, Willow Grove, Pa. 19090.

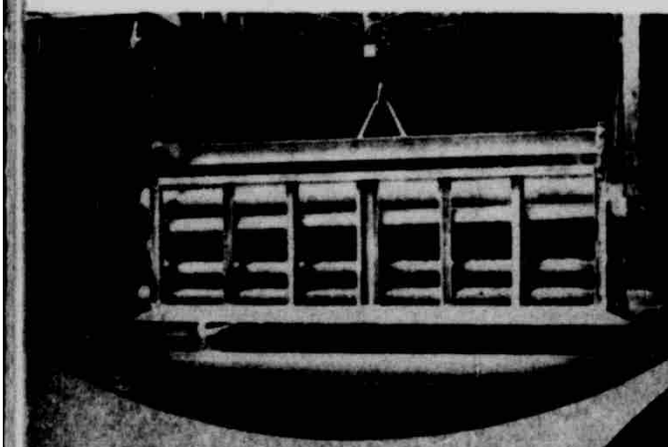
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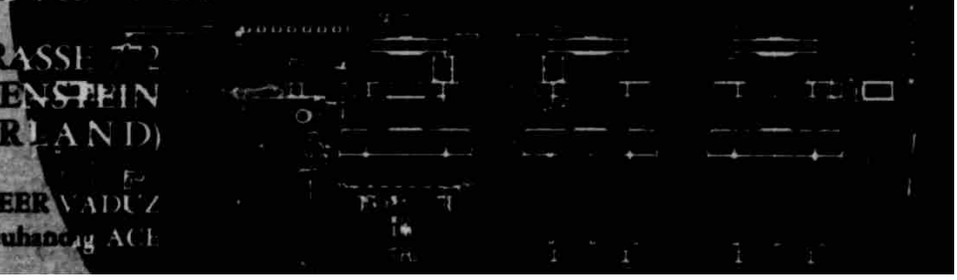


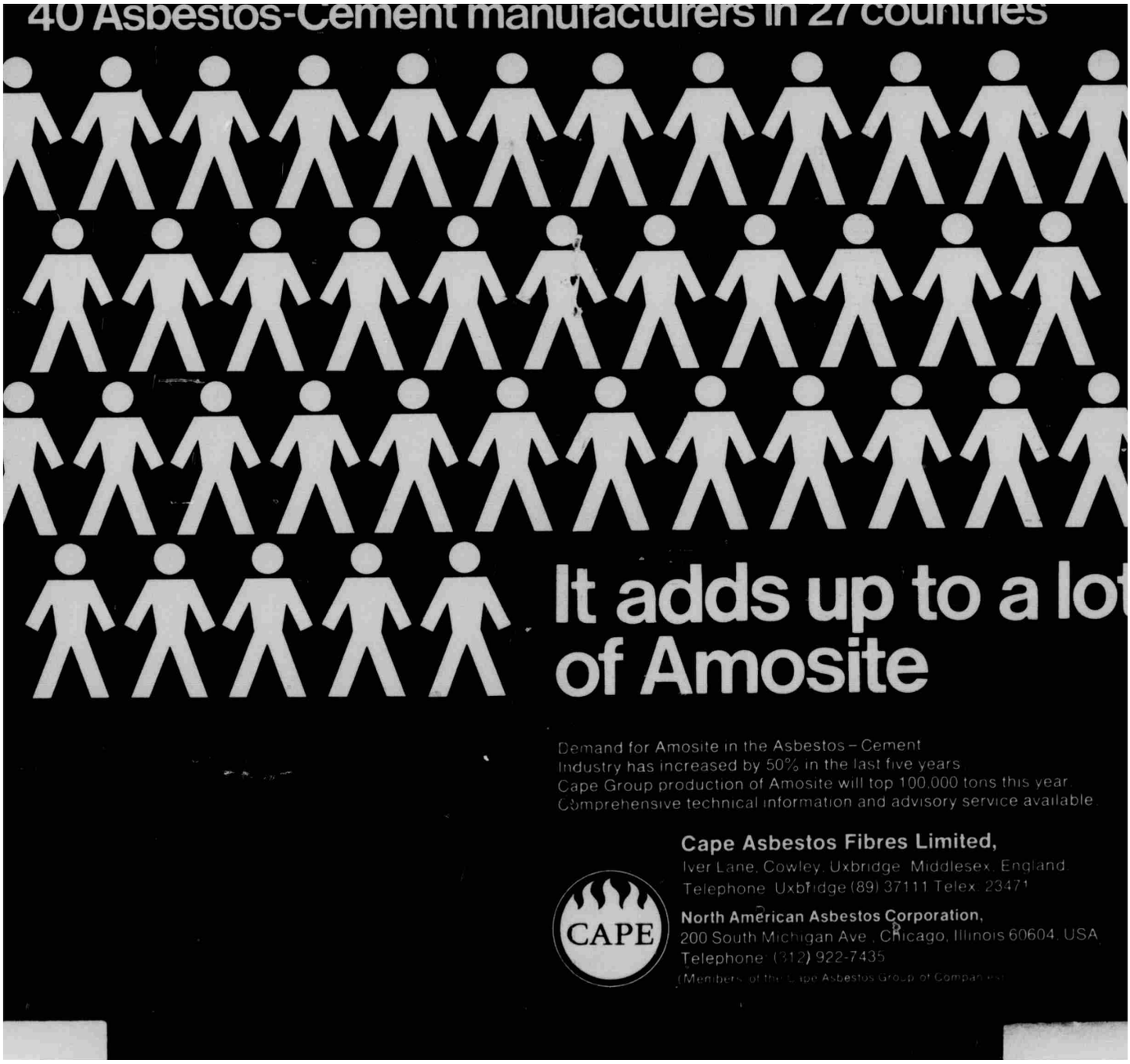
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CONSTRUCTION NEWS

NOVEMBER 1970 contracting for new construction broke from its recent slump as the seasonally-adjusted Dodge Index of construction contract value gained 13% to 202 (1957-59=100). Contracts for future construction work totaled $5,144,702,000 exceeding the November 1969 amount by 20%.

Nonresidential Building—Contract value for nonresidential building was $1,700,876,000 reflecting a 17% increase over the year-ago amount. All categories except manufacturing buildings showed hefty year-to-year gains.

Residential Building—November brought another advance in the steadily-improving housing market and showed solid gains in both one-family homes and apartments. The value of contracting totaled $1,946,874,000, 17% ahead of last November.

Nonbuilding Construction—The start of work on two major electric utility projects gave a big lift to nonbuilding construction contract value, helping to raise the total by 30% to $1,496,952,000. Solid gains were also noted in contracts for highways, dams and reservoirs, and sewer and water supply projects.

MOTOR VEHICLE FACTORY SALES

OCTOBER 1970 motor vehicle factory sales from plants in the *United States* totaled 501,446 (passenger cars—392,542; trucks and buses—108,904). The cumulative total for the *First Ten Months of* 1970 was 7,048,207 compared with 8,499,811 for the same period last year.

Motor vehicle factory sales from plants in *Canada* totaled 83,039 for *OCTOBER 1970* compared to 136,054 in October 1969. The cumulative total for the *First Ten Months of 1970* was 1,015,400 against 1,103,184 for the like period in 1969.

1970 MOTOR TRUCK FACTS—Demand for motor truck and bus service reached a new high in the U.S. during 1969 with numerous new records established by manufacturers and dealers and the trucking industry. A copy of this factual booklet may be obtained from the Automobile Manufacturers Association, 320 New Center Building, Detroit, Michigan 48202.

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J-M EXECUTIVE CHANGES

In a realignment of executive responsibilities, Johns-Manville Corporation announced the appointment of *DR. W. RICHARD GOODWIN* as President and Chief Executive Officer and Director, replacing *C. B. BURNETT,* who becomes Chairman of the Board. Other appointments include *J. B. JOBE* as Executive Vice President and Chief Operating Officer and *FRANCIS H. MAY, JR.,* as Executive Vice President and Finance and Administrative Officer.

Dr. Goodwin had been Vice President for Corporate Planning with J-M. He joined the company in 1969 following 4 years as an independent consultant to industry on management and information systems. He served with the Rand Corporation and with System Development Corporation for 10 years and from 1959 to 1965 he was Division Manager of the latter firm's development of a computer-based command and control system for the USAF Strategic Air Command.

Another executive change is the appointment of *J. R. M. HUTCHESON* as General Manager of the Asbestos Fibre Division. In making the announcement, Mr. Burnett said that retiring General Manager, *DR. KARL V. LINDELL,* had made many fine contributions to the company's progress. Dr. Lindell also resigned as a Vice President and a Director of J-M. He will continue to be active in the fields of mining and engineering through a newly-incorporated company, "Karl V. Lindell Associates Ltd.," Montreal.

Mr. Hutcheson joined Johns-Manville in 1949 as a Junior Mining Engineer at the Jeffrey Mine, Asbestos, Quebec, and progressively assumed positions of greater responsibility such as Assistant Production Engineer and Production Engineer at Asbestos Fibre Division headquarters, Mine Manager at Advocate Mines Ltd. and Division Production Engineer with Canadian Johns-Manville Co. Ltd. In 1968 he became Operations Manager of J-M's Asbestos Fibre Division, responsible for the exploration, production, sales, public relations and fiber development activities of the Division. He will continue as a Vice President of C.J-M.

All of the above appointments took effect December 1, 1970.

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NEWS FOR ASBESTOS-CEMENT MANUFACTURERS

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CANADIAN ROOFING CONTRACTORS

CROSS CANADA TOUR—The President of the Canadian Roofing Contractors Association, J. M. Minialoff, and the General Manager, J. Chevalier, completed the western portion of the annual cross-Canada tour, visiting Vancouver, Edmonton, Calgary, Regina and Winnipeg and participating in Provincial association meetings in each of these cities. They also attended like meetings in Toronto, Saint John and Halifax. According to CRCA, the Canadian roofing industry has reached a new plateau of mature development and most of the Provincial associations are operating efficiently. Major problems of standards of practice and jurisdiction, critical for many years, appear to have been solved, allowing for concentration of national association effort in the increasingly-important area of technical service.

GOOD ROOFING—The following Technical Bulletins in the series of bulletins on "Good Roofing" were recently issued by CRCA: "Confusion Concerning Insulated Steel Deck Constructions," "Deflections" and "Exposure of Some Roofing Systems."

DIVIDENDS DECLARED

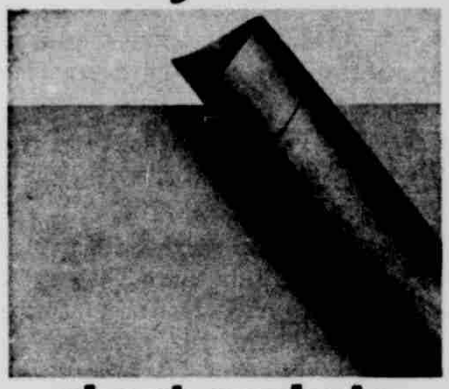
H. K. PORTER CO., INC., declared a quarterly cash dividend of 25¢ per share on the common stock. The dividend was payable December 18 to stockholders of record December 1.

UNIROYAL, INC., declared a quarterly dividend of 17½¢ a share on the common stock, payable December 24 to stockholders of record November 23. The board also declared a dividend of $2.00 a share on the first preferred stock, payable December 24 to stockholders of record November 23.

NATIONAL GYPSUM CO., during a working tour of five company plants in eastern Pennsylvania, declared a dividend on its common stock of 26¼¢ per share, payable January 2 to holders of record December 10. The directors also declared a regular quarterly dividend of $1.12½ per share on its preferred stock, payable December 1 to holders of record November 9.

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PRODUCTION - IMPORTS - EXPORTS

Australia—Production of non-acoustic, asbestos-cement sheets in the *First Quarter of 1970* totaled 8,908,000 square yards, compared to 8,385,000 square yards for the same quarter in 1969. (Commonwealth Bureau of Census and Statistics, Canberra).

Canada—Producers' shipments of asbestos during *September 1970* totaled 160,331 short tons (133,020 tons from Quebec plants and 27,311 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for September 1969 was 147,336 tons.

Shipments for the period *January-September 1970* amounted to 1,165,473 short tons (944,182 tons from Quebec plants and 221,291 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for the first nine months of 1969 reached 1,092,692 tons.

October 1970 producers' shipments were 170,031 short tons (142,522 from plants in Quebec and 27,509 tons from plants in the other pertinent Provinces). The figure for October 1969 was 154,791 tons.

Canada produced 114,705,909 square feet (52,694 short tons) of vinyl-asbestos tile during the *January-September 1970* period, compared to 147,102,365 square feet (68,443 tons) during the same 9-month period in 1969.

Shipments totaled 118,597,515 square feet (54,944 tons) from *January-September 1970* against 142,034,139 square feet (67,081 tons) during the like 1969 period.

(The above quoted figures on producers' shipments of Canadian asbestos fiber and Canadian tile production were supplied by the Dominion Bureau of Statistics, Ottawa.)

South Africa—Production of asbestos fiber for the *Second Quarter of 1970* totaled 70,522 metric tons: Amosite, 24,477 tons; Chrysotile, 13,372 tons; Cape Blue, 31,600 tons; Transvaal Blue, 1,073 tons. The total for the same period in 1969 was 62,480 tons.

Exports for the *Second Quarter of 1970* totaled 66,510 metric tons, valued at R8,251,987. The breakdown is as follows: Amosite, 26,176 tons, R2,919,008; Chrysotile, 8,243 tons, R681,055; Cape Blue, 31,225 tons, R4,511,944; Transvaal Blue, 866 tons, R139,980. The total for the same period in 1969 was 64,557 tons, valued at R8,082,693. (Department of Mines, Johannesburg)

The Mineral Industry of the USSR—With a centrally-planned economy, the USSR maintained its position in 1968 as the world's second largest producer of industrial products. Practically all mineral commodity exports increased.

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Exports From U.S.A.

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

Unmanufactured Asbestos:		SEPTEMBER 1970	
Crude & Spinning Fibers	s. tons	452	$ 85,379
Non-Spinning Fibers	s. tons	397	69,854
Waste & Refuse	s. tons	2,029	235,958
		2,878	$ 391,191
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,674,942	$ 207,050
Other Asbestos-Cement Articles	Lb	952,855	158,504
Asbestos Gaskets	Lb	16,920	30,949
Asbestos Packing	Lb	354,915	474,981
Asbestos Heat or Sound Insulation		..	283,811
Asbestos Textiles & Yarns	Lb	88,339	106,918
Asbestos Protective Clothing		..	8,555
Mfrs. Other than Friction Materials		..	191,462
Clutch Facings & Linings for Auto. Use	No	184,995	88,568
Clutch Facings & Linings, Other	No	60,246	18,837
Brake Linings for Automotive Use	Lb	421,115	317,587
Asbestos Brake Linings, Other	Lb	82,815	72,852
			$1,960,074

Exports From Canada

(Published by Dominion Bureau of Statistics) SEPTEMBER 1970

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	5	423	30,460	14,739
Eastern Europe	..	159	878	316
Middle East	..	..	558	40
Africa	..	..	496	..
Asia	7	463	6,716	11,074
Oceania	..	39	5,250	953
So. & Cen. America & Antilles	..	31	6,754	1,158
United States	..	1,183	18,279	35,790
	12	2,298	69,391	64,070

The total amount of unmanufactured asbestos exported in *September 1970* was 135,771 short tons, valued at $19,934,000.

Manufactured Asbestos Goods:	
Asbestos Brake Linings & Facings	$ 228,000
Asbestos-Cement Building Materials	412,000
Asbestos Basic Products, Other	110,000
	$ 750,000

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BIRTHDAY GREETINGS TO . . .

David F. Calliari, Vice President-Finance & Treasurer, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, February 15.

Elmo A. DiSalvo, President & General Manager-Philip Carey, Philip Carey Company, Cincinnati, Ohio, February 16.

Lawrence E. Moody, Works Manager, Charlotte Works, Thermoid Division, H. K. Porter Co., Inc., Charlotte, N.C., February 16.

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

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

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

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

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

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

James J. Polizzi, Vice President, North American Asbestos Corporation, Chicago, Illinois, February 28.

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

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

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

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

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

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

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

B. G. Hill, Managing Director, Ferodo Ltd., Chapel-en-le-Frith, England, March 5.

James R. Allen, General Marketing Manager-Electrical & Equipment Products, Packings & Friction Materials Division, Johns-Manville Corporation, New York City, March 6.

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

D. W. Hills, Chairman, Turner Brothers Asbestos Co. Ltd., Spotland, Rochdale, England, March 9.

Paul C. Nikitovich, Vice President of J-M International & General Manager, International Division, Johns-Manville Corporation, New York City, March 9.

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

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

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

G. P. Loubert, Vice President & Assistant General Manager, Canadian Johns-Manville Co. Ltd., Port Credit, Ontario, Canada, March 13.

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

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PACIFIC ASBESTOS SIGNS CONTRACT

Pacific Asbestos Ltd., Toronto, Canada, announced that a contract estimated to be worth in excess of $25 million has been signed in Tokyo for the purchase of asbestos fibers from its Australian asbestos properties. The contract with Marubeni-Iida, the third largest trading concern in Japan, follows almost a year of extensive fiber testing by Japanese consumers.

Marubeni will purchase 200,000 tons of Chrysotile asbestos fiber in Grades 4 through 7, at an annual rate of 40,000 tons over a 5-year period. Upon completion by the end of this year of the $18.5 million mill complex at Barraba, New South Wales, Pacific Asbestos is contemplating expansion to the initially planned annual production of 70,000 short tons of fiber. The mill is expected to be commissioned by January 31, 1972.

The ore will be mined and milled by Woodsreef Mines Ltd's wholly-owned subsidiary, Chrysotile Corporation of Australia Pty. Ltd. Woodsreef is controlled by Pacific Asbestos.

Other Exploration—Pacific Asbestos is undertaking an exploration program to evaluate known occurrences of Chrysotile asbestos located in the Yulgilbar area of New South Wales. Expenditures for this project during the next 15 months are estimated at $300,000. Preliminary results covering the 35,000 acres under exploration will be made known in about 8 months time and will also include reports on a cinnabar occurrence.

Following the signing of an agreement with Hastings Explorations NL, Woodsreef Mines has acquired a 62% interest in the 160-acre Galwadgere copper project, 170 miles northwest of Sydney and 15 miles from the town of Wellington, New South Wales. The agreement calls for an undertaking to spend $52,000 (Australian) on an exploration program, primarily in diamond drilling. According to a report by Watts, Griffis & McOuat, consulting geologists and engineers, seven holes have been drilled on the property, three of which were drilled by previous owners. Three of the four newly-drilled holes have intersected substantial sections of ore-grade copper. In addition to the drilling, an induced polarization survey has been completed which confirms the mineralization zone indicated by the drilling and suggests a strike length of not less than 750 feet.

MINERAL INDUSTRY SURVEY

Safety in Mineral Industries—According to a preliminary assessment of company reports by the U.S. Bureau of Mines, the safety record for all mineral mining and processing industries in the United States in 1969 showed an improvement in fatality experience but a worsening in nonfatal-injury experience. Pertinent statistics are given in the Bureau's Mineral Industry Survey titled "Injury Experience and Worktime in the Mineral Industries, 1968-69."

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CANADIAN PUBLICATIONS

Asbestos Mines 1967-68 has been issued by the *Quebec Bureau of Statistics* as Publication No. 3-1M. It contains tables giving the principal statistics of the 9 establishments in the Province that are primarily engaged in mining and milling asbestos fiber. In 1968, salaries and wages of the 5,920 employees amounted to $42,027,553. Total revenue of the firms involved was $185,307,714. Other data given in the publication concern cost of fuel and electricity; cost of supplies, materials used and work done; value of shipments and work done; value added by production; inventory; expenditures, man-hours of production workers; and number of production workers, by the month.

Asbestos Mines 1968 (Catalog No. 26-205) is available, at 50¢ per copy, from the *Dominion Bureau of Statistics*, Ottawa. It is broader in its coverage than the above-listed Quebec publication in that it encompasses data on the asbestos mining and milling establishments throughout the entire Country of Canada. During the year, 95,661,031 short tons of asbestos rock were mined and 24,106,014 tons were milled. Production of asbestos totaled 1,546,235 tons and Canadian producers shipped 1,595,951 tons of crude and milled fibers, valued at $185,024,662. Excluded from this figure is the value of containers which amounted to $7,016,298. The quantity of asbestos increased 9.9% over 1967 and the total value was up 12.1%. In 1968 as in 1967 over 90% of the producers' shipments of asbestos was exported. Asbestos exports were valued at $192,895,000 and were shipped to 71 countries with the United States accounting for $70,228,000 of the total. The total value of asbestos plus asbestos products exported amounted to $196,089,000 and imports reached $10,954,000. Salaries and wages for a total employment of 7,213 people amounted to $53,424,000. These and other salient statistics concern 12 establishments in Canada in 1968—eight in Quebec and one each in Newfoundland, Ontario, British Columbia and the Yukon.

(Any variation between the figures published by the Quebec and the Dominion Bureaus of Statistics is the result of different methods employed in editing, compiling and interpreting statistical data.)

Asbestos 1969 is one of 57 mineral review preprints that are part of the Canadian Minerals Yearbook 1969, prepared by the Mineral Resources Branch of the *Department of Energy, Mines & Resources*, Ottawa. It contains production, import and export statistics, a chapter on Canadian Industry and Developments and a World Review, much of which has been recorded in various issues of ASBESTOS. The following information has been excerpted from the preprint.

Asbestos output in Canada in 1969 reached a record high level of 1,596,450 short tons, a slight increase over 1968 production. The total value, at $196,759,000, was also a new high, up about 6% from the previous year. *Consumption* of asbestos in Canada in 1969 was about 70,000 tons; less than 5% of production. The balance of production is exported to more than 80 countries around the world.

Canada exported 1,564,762 tons of asbestos (crude, milled and shorts) in 1969, valued at $216,275,000. The United States absorbed 41% or 643,010 tons, valued at $72,563,000. The total amount of as-

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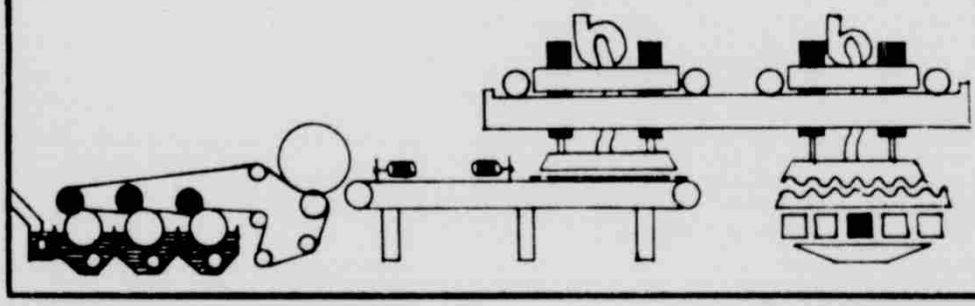
bestos manufactured products exported from Canada was valued at $4,061,000. World fiber demand remained strong in 1969 and Canada retained its dominant position as the major supplier of asbestos to world markets. Approximately 90% of total world output comes from Canada, the USSR and the Republic of South Africa. Canada accounts for about 35% of the world's asbestos production and some 70-75% of world exports of fiber. The countries in the European Economic Community import more than 200,000 tons and Britain between 100,000 and 125,000 tons a year. Asbestos from Canada provides about 48% of Japan's fiber imports and Canadian sales to that country have steadily increased to a level of about 100,000 tons annually.

Canadian imports of unmanufactured asbestos totaled 7,449 tons in 1969 and were valued at $1,425,000. The total value of manufactured asbestos products imported by Canada was $11,694,000.

The outlook for asbestos is good and a balanced situation of world production and consumption is expected to continue. In the long term to 1975 the market outlook remains strong and a steady annual growth of approximately 4% in both consumption and sales is forecast. There have been some projections that within the next 5-year period there will be a shortage of asbestos. Although there may be periods of tight supply (for some fiber grades more than for others), it is unlikely that a severe shortage will occur. Asbestos production in the USSR has become so large that minor changes in its domestic consumption pattern could release fiber for additional exports in amounts that are small in terms of total output but are of considerable size in relation to world trade.

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BOOKS, ARTICLES & PAPERS

Special Procedures for Testing Soil & Rock for Engineering Purposes is available from the American Society for Testing & Materials at $15.75 per copy. Ask for publication STP 479. Sampling, testing and evaluation of soils and rock pose difficult and complex problems to the foundation engineer as well as to the scientist. Presently, soil and rock testing is an art because so much of the technique involved cannot be adequately expressed. It must be learned from competent engineers and through careful apprenticeship either in the laboratory or in the field. This newly-revised, 630-page, hard-cover volume presents those test techniques that are currently being considered as meritorious in the field of rock and soil testing.

Progress of Asbestos as A Reinforcement in Plastics appeared in the October 1968 issue of "Plastiques Modernes et Elastomeres." It was translated into German and reprinted in the August 1970 issue of "Gummi-Asbest-Kunststoffe." ASBESTOS will gladly lend its copy of the article, either in French or in German, to interested readers.

U.S. PUBLICATIONS

TECHNICAL DOCUMENTS—The following Technical Documents are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22151. Cost per paper copy is designated at the end of each listing. Microfiche reproduction is priced at 95c per document. Prepayment is required. Please specify Report Number when ordering.

AD 704 713—Fire Research: A Collection of Papers Representing Research Completed During the Year Ending October 15, 1969, by P. L. Blackshear, Jr., et al, of the University of Minnesota for the Office of Civil Defense. ($3.00)

NBS SP 325—1969 Technical Highlights of the National Bureau of Standards, issued March 1970 ($1.25).

NBS TN 498—Bibliographies on Fabric Flammability: Wearing Apparel, Fabrics Used on Beds, and Carpets and Rugs, by S. H. Grenfeld, et al (40¢).

NBS TN 525—The Flammable Fabrics Program 1968-1969, issued April 1970 (75¢).

PB 189 691—The Case for National Environmental Laboratories, Ad Hoc NEL Concept Committee, Oak Ridge National Laboratory; discusses the need for "National Environmental Laboratories" that contain inter-acting groups of natural and social scientists, engineers and information specialists. ($3.00)

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INVESTMENT OPPORTUNITY

Tong Yang Cement Mfg. Co. Ltd., 58-7 Susomun-dong, Sudaemun-ku, Seoul, Korea, has proposed to establish a concrete and asbestos-cement products plant and a refractory plant, both in 50-50 joint ventures with one or two U. S. firms. The former plant will produce ready-mixed concrete, reinforced and non-reinforced concrete pipes, piles and beams, and corrugated asbestos sheets and asbestos roofing slates. Raw material cement clinker (semi-finished Portland cement) will be supplied by Tong Yang's plant at Samchok, Kwangwon Province, and the asbestos fiber will be imported from the United States or from Canada. The products will be for domestic consumption and for export. An 80-acre site at Donong near Seoul has already been acquired for the plant.

Total investment is estimated at W1,981,970,000 (U. S. $6,498,000). This figure includes a foreign exchange requirement for $2,030,000. The new enterprise will be organized either as a separate entity to be managed as a joint venture or as an expansion of Tong Yang. The U. S. partner would contribute its name, process and technical capabilities.

Tong Yang is a leading producer of Portland cement and has an annual capacity of one million tons and sales of W7 billion. Mr. Lee Yang Koo, President, holds controlling interest in the Tong Yang Group. With four affiliated firms, the Group claims total assets of W3.6 billion.



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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 August 11 through December 1, 1970.

3,525,689—Organic Liquids Thickened with Silica-Silicate Materials, by R. Marotta; assigned to Monsanto Co., St. Louis, Missouri; August 25.

3,531,353—Method of Coating Wood, by R. S. Hartzell & G. Gerek; assigned to PPG Industries, Inc., Pittsburgh, Pennsylvania; September 29.

3,537,994—Organophilic Clay Greases, by R. F. House; assigned to National Lead Co., New York City; November 3.

3,539,364—Container Filler of Improved Strength & Uniformity, by G. E. Haddeland; November 10.

3,539,446—Oil Filter Paper Including Phenolic Resin & Chrome Oxide and Method for Making Same, by C. A. Charron; assigned to Rochester Paper Co., a corporation of Michigan; November 10.

3,539,474—Insulation Composition which Expands in Use, by J. G. Sommer, Jr.; assigned to The General Tire & Rubber Co., a corporation of Ohio; November 10.

3,540,865—System for Absorbing & Burning Combustible Liquids, by H. Pape; assigned to Firma Ekoperl G.m.b.H., Dortmund, Germany; November 17.

3,544,308—Method of Producing Asbestos-Felt Bodies Having Elastic Properties, by F. J. Rohr; assigned to Brown, Boveri & Cie A.G., Mannheim-Kafertal, Germany; December 1.

The National Building Research Institute, after undertaking an investigation, discovered that insufficient precautions are being taken in South Africa to prevent the start and spread of fires in high buildings. As a result, NBRI is studying ways to rectify the situation.

The Institute found several major shortcomings, such as improperly-designed fire escape routes; large, undivided floor areas combined with combustible ceilings; spaces between ceilings and the underside of the above floor inadequately fire-stopped to prevent fires spreading in them; air-conditioning ducts without automatic cut-offs; vertical shafts without adequate fire-stopping measures; and stairways without suitable means to control smoke hazards. (The South African Builder)

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ACTION ON STANDARDS

ASTM New Standard C 633 70—Specification for Asbestos-Cement Storm Drain Pipe, effective October 2; covers asbestos-cement pipe intended for use in storm water drainage of highways, airports, farms, foundations and other similar drainage systems. ($1.25 per copy)

ASTM New Standard C665 70—Specification for Mineral Fiber Blanket Thermal Insulation for Wood Frame & Light Construction Buildings, effective October 15; covers the general composition and physical properties of mineral fiber blanket insulation manufactured in sizes and forms suited primarily to framed members of building constructions. ($1.25 per copy)

British Standard 299—The "Metric Version of BSI Standard CP229:1970 on Sprayed Asbestos Insulation" is available from the Sales Branch of the British Standards Institution, London. The 1970 Standard replaces the 1968 imperial version but the technical content is unaltered. (12 shillings per copy)

Canadian Standard 34-GP-9c for Asbestos Cement Sewer Pipe has been amended, as of October 1970, by the Canadian Government Specifications Board. Under paragraph 5, sub-paragraph 5.4, the "flexural strength" requirement now reads as follows: "Each standard length of 6 and 8 inch pipe in Classes 1500, 2400 and 3300 shall have sufficient flexural strength to withstand, without failure, the total load specified in Table 1, according to size. For 13-foot lengths the test load shall be applied at either the third points of a 12-foot span or at the third points of a 9-foot span. When tested on a 9-foot span the total applied loads shall be those cited for 10-foot lengths in Table 1. For 10-foot lengths the test load shall be applied at the third points of a 9-foot span.

Standards Council of Canada—A broader and more energetic Canadian standards program can be anticipated due to the passage of Bill C-163 which establishes the Standards Council of Canada. It will act as a national coordinating institution through which organizations concerned with voluntary standardization can cooperate in recognizing, establishing and improving standards in Canada. The new Council will nationally and internationally foster, promote and coordinate standards activities, working with groups already active in standardization. Membership will be drawn from all levels of government, primary and secondary industry, distributive and service industries, trade associations, labor unions, provincial and consumer associations and the academic community. Membership will be limited to 57, of which six will represent the Federal government and ten the Provincial governments.

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MEN ON THE MOVE

THE CAPE ASBESTOS CO. LTD.

G. A. Higham, an executive Director, has been appointed Managing Director of Cape Asbestos effective January 1, 1971. He succeeds **R. H. Dent** who has relinquished the appointment of Managing Director. Mr. Dent will continue as Chairman.

EVERITE LTD.

H. Thoeni, General Manager of Everite's Asbestos-Cement Division, has joined the Board as an Alternate Director.

HUMES LTD.

Angus V. Richardson, a Director since last July, was appointed General Manager as of January 2, 1971, following the retirement of **Keith C. Wilkinson.** Mr. Richardson's career commenced at the Perth Branch Office in 1929. Mr. Wilkinson was engaged as a junior clerk in 1923 and had been General Manager since 1959. He will remain a Director of the firm.

INSTITUTION OF MINING & METALLURGY

Professor M. G. Fleming has been elected President of IMM for the 1971-72 Session, succeeding **M. J. Cahalan.** Professor Fleming was elected to membership of the Institution in 1947, has served as a Member of Council since 1962 and as a Vice President since 1967.

NICOLET INDUSTRIES, INC.

William L. Burr was named District Sales Manager, Gasketing Division, for Nicolet's Detroit, Michigan, territory. In addition to sales his activites will include materials specification with the original equipment market. Mr. Burr was formerly employed by Garlock, Inc.

PACIFIC ASBESTOS LTD.

Sam Hanen was elected Chairman of the company replacing **Robert Macaulay** who remains as a Director. **Lloyd Dayus** was elected Vice Chairman and Vice President. **Russel Bullied** was re-elected President and Chief Executive Officer.

PANACON CORPORATION

V. Eugene Petrie was appointed Director of Engineering. He joined the firm last June as Assistant Director of Engineering and prior to that time he was with Brown Engineering Company.

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ASBESTOS CEMENT MACHINES

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ASBESTOS PRICES

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(AS OF AUGUST 1, 1968)

	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

PER TON OF 2000 LBS., F.O.B. MINE

(AS OF JANUARY 1, 1971)

	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)	55.00 — 100.00

CASSIAR

PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

(AS OF JANUARY 1, 1971)

	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

PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT

(AS OF JANUARY 1, 1971)

	U.S. DOLLARS
Group No. 3 (Spinning & Filtering Fiber)	$ 380.50 — $ 408.00
Group No. 4 (Shingle Fiber)	208.00 — 353.50
Group No. 5 (Paper Fiber)	150.00 — 176.50
Group No. 6 (Waste)	.. — 108.50
Group No. 7 (Shorts, Floats)	43.50 — 90.50
Group No. 8 (Shorts)	.. — 29.00
Hooker No. 1 (Packaged in 50-lb. Woven Poly. Bags)	— 416.00
Hooker No. 2 (Packaged in 100-lb. Woven Poly. Bags)	— 208.00

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ASBESTOS STOCK QUOTATIONS

CLOSE—DECEMBER 22, 1970

Abitibi Asbestos	*$4.50	Gulf & Western	18
Advocate Mines	*$2.10	G&W (pfd 1.75)	60 1/8
Asarco	24 5/8	G&W (pfd 3.50)	76
Armstrong Cork	33 1/2	G&W (pfd 3.87)	43
Armst Cork (pfd 3.75)	53	G&W (pfd 5.75)	56 1/2
Asbestos Corporation	*$30.25	Illinois Central	26
Bendix	26 5/8	Ill. Central (pfd 3.50)	45 3/4
Bendix (pfd 3)	48	Johns-Manville	40 1/8
Carlisle	16 1/2	Maremont	9
Cassiar	*$23.00	National Gypsum	23 1/4
Cerro Corporation	16 1/2	Natl Gypsum (pfd 4.50)	59 5/8
Certain-teed	22 7/8	Pacific Asbestos Ltd.	*$1.16
C-teed (pfd .90)	22 1/8	Panacon	2 1/8
Conwest	*$9.90	Porter (pfd 5.50)	61
Flintkote	27 5/8	Raybestos-Manhattan	28 1/4
F-kote (pfd-A 4.50)	76	Royal Industries	5 7/8
F-kote (pfd-B 2.25)	34	Unarco	10 1/2
GAF Corporation	11	Union Carbide	39 1/2
GAF (pfd 1.20)	19	Uniroyal	20 3/4
Garlock	18 1/8	Uniroyal (pfd 8)	101
Grace	28	United Asbestos	3-3/16

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



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CALENDAR OF EVENTS

Asbestos Textile Institute—General Meeting, Red Carpet Inn, Charlotte, North Carolina, *February 3-4.*

National Roofing Contractors Association—84th Annual Convention, Regency-Hyatt House, Atlanta, Georgia, *February 7-11.*

National Environmental Systems Contractors Association—3rd Annual Convention, Dallas, Texas, *February 10-13.*

New York State Sheet Metal, Roofing & Air Conditioning Contractors Association—48th Annual Convention, Parkway Inn, Niagara Falls, New York, *February 14-17.*

Association of Asphalt Paving Technologists—46th Annual Meeting, Skrivin Hotel, Oklahoma City, Oklahoma, *February 15-17.*

Instrumentation & Techniques for Monitoring Pollutants in the Air—Sadtler Research Laboratories, Inc., Warwick Hotel, Philadelphia, Pennsylvania, *February 15-19.*

Earth Science Symposium on Off-Shore Eastern Canada—Camsell Hall, Department of Energy, Mines & Resources, Ottawa, *February 22-24.*

ASTM Committee Week—Sheraton-Biltmore Hotel, Atlanta, Georgia, *February 28-March 5:* C-22 on Porcelain Enamel & Related Ceramic-Metal Systems, D-9 on Electrical Insulating Materials, D-10 on Packaging, D-20 on Plastics, E-5 on Fire Tests of Materials & Construction.

Canadian Roofing Contractors Association—12th Annual Meeting & National Convention, Hotel Vancouver, Vancouver, British Columbia, *March 2-5.*

National Remodeling Association—Convention Hall & Convention Headquarters, The Traymore Hotel, Atlantic City, New Jersey, *March 5-7.*

ASTM Committee D-14 on Adhesives—Hotel Monleleone, New Orleans, Louisiana, *March 10-12.*

Noise & Vibration Control Seminars—sponsored by Bolt Beranek & Newman Inc., *March 10-12 or 15-16* in Orlando, Florida, and *March 24-26 or 29-30* in New Orleans, Louisiana.

Plant Engineering & Maintenance Show and Conference, Convention Center, Cleveland, Ohio, *March 22-25.*

Symposium on Automatic Control Systems in Mineral Processing Plants—Department of Mining & Metallurgical Engineering, University of Queensland, St. Lucia, Australia, *May 18-20.*

Asbestos Magazine, 1971, January 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?

(January 1921 ASBESTOS)

A featured article in this issue was titled "Asbestos Paper—Its Manufacture and Uses" by W. L. Steffens of the Philip Carey Co.

The death of C. R. Manville, Manager of the Johns-Manville plant at Milwaukee, Wisconsin, was reported.

Asbestos Mines Ltd., owners of the one-time Boston Mine at East Broughton, Quebec, increased the capacity of its mill from 400 tons to 800 tons per day. This was believed to be the largest asbestos milling facility in Canada at that time.

Consolidated Asbestos, Ltd., declared a regular quarterly dividend of 1¼%.

The Stokes Asbestos Co. was incorporated in Trenton, New Jersey, with an authorized capital of $1,000,000, for the manufacture of asbestos cloth for brake lining.

The resignation of Dr. F. G. Cottrell, Director of the U.S. Bureau of Mines, was announced.

John P. DuBois was appointed General Sales Manager of the Ehret Magnesia Mfg. Co., Valley Forge, Pennsylvania.

The Asbestos Crude & Fibre Mining Corporation, Ltd., of Thetford Mines, Quebec, was incorporated with a capitalization of $600,000.

" *Tropag* "

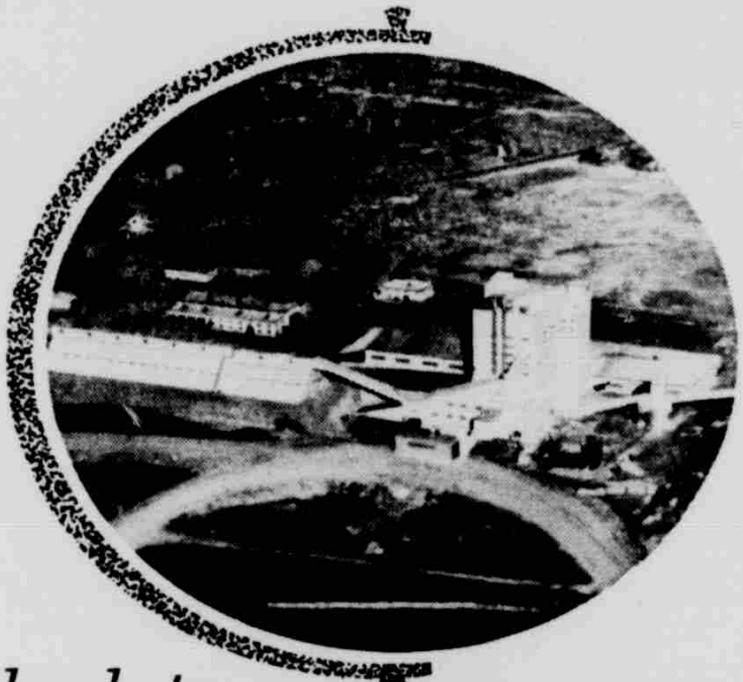
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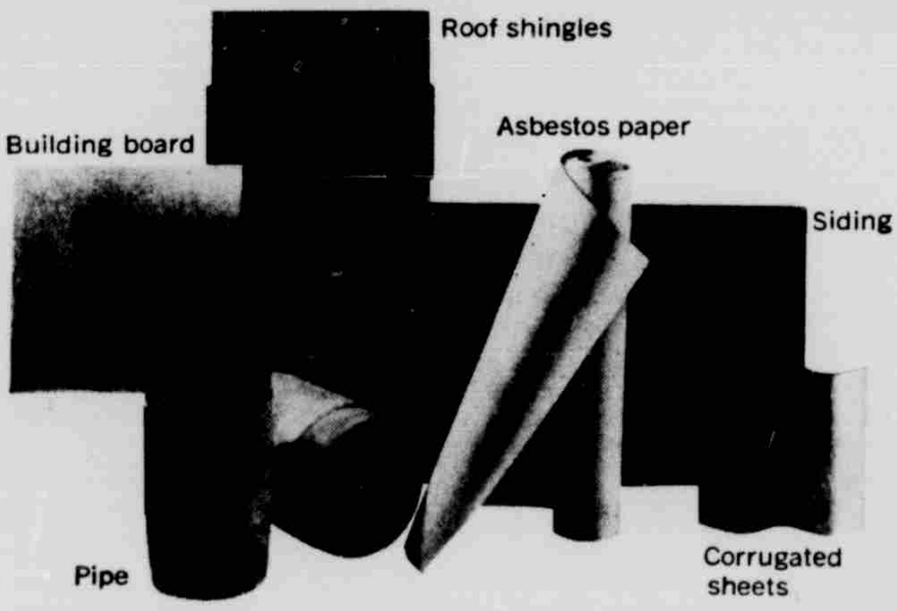
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