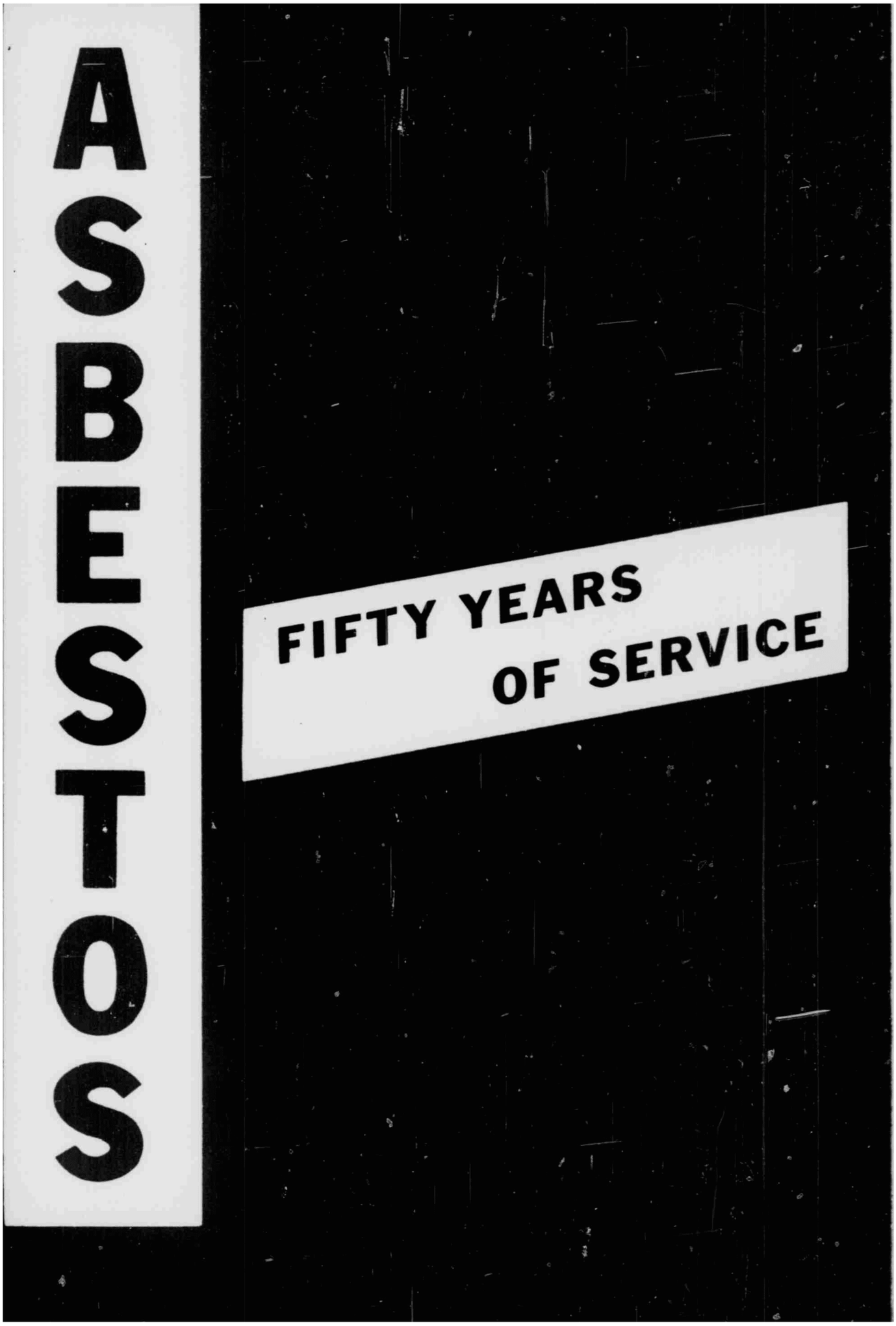

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ASBESTOS

VOLUME 51 JANUARY 1970 NUMBER 7

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GREETINGS TO THE ASBESTOS INDUSTRY

AMERICAN ASBESTOS TEXTILE CORPORATION

J. W. Weber, President

We are looking forward with the same optimism to 1970 as we did to 1969, which found us hard pressed to satisfy the heavy demand for asbestos textiles. The coming year will be a challenging one. We are counting on further technological progress to overcome existing labor shortages and meet the ever increasing demand for our products.

Season's greetings and best wishes to all our friends for the New Year.

ASBESTOS CORPORATION LIMITED

W. W. Oughtred, President

It is with a great deal of pleasure, that I am able, through the auspices of ASBESTOS magazine, to convey to all our friends in the Asbestos Industry the best wishes of Asbestos Corporation Limited for the coming year.

1969 has been a busy year for our company with new records established for both production and sales. We look forward to 1970 as another year of challenge for us to continue to serve the Industry with more and better fibre for the growing markets of the world.

BBA GROUP LIMITED

F. Pearson, Group Chairman

The year has seen a substantial increase in sales of asbestos-based products. Our plant at West Auckland, County Durham, is extremely busy working round the clock, and the training of new operatives is a major task. We look forward to increasing our output further.

We extend our best wishes to all those engaged in the Asbestos Industry.

THE CAPE ASBESTOS COMPANY LIMITED

R. H. Dent, Chairman

Once again I am happy to have this opportunity of sending to our friends in the Asbestos Industry all over the world best wishes for Christmas and the New Year from

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The Cape Asbestos Company Limited.

1969 has been a year of progress for the Industry and in Cape we have continued and intensified our efforts towards the improvement of our products combined with the increased output needed to satisfy the demand throughout the world for fibre and manufactured goods.

We look forward to maintaining this progress in 1970 and in years to come.

CAREY-CANADIAN MINES, LIMITED

R. J. Merrill, President & General Manager

We are indeed happy to have this opportunity of wishing a merry holiday season to our friends in the Asbestos Industry. This year has been very good for us, even better than record-breaking '68. Our plant operated at full capacity, markets for our asbestos grades continued strong and good progress was made in the development of new uses for our product. Improvements were also made at the mine in production efficiency, partially, at least, offsetting higher labor and material costs. We hope and trust that all of you will have a happy and prosperous 1970.

CASSIAR ASBESTOS CORPORATION LIMITED

J. D. Christian, President

On behalf of the staffs of our Cassiar and Clinton Mines and of the Transport Division, I extend to our mining friends in Canada and to our many customers in the United States and abroad, our best wishes for the Christmas Season and for a happy and prosperous 1970.

The past year has been a good one for all of the Cassiar operations. We were particularly pleased with the worldwide acceptance of our Clinton Mine fibres. The one dark spot was the disruption in deliveries caused by the longshoremen's strike in Vancouver. Fortunately, we were able to pre-ship a good many overseas orders and to keep sufficient fibre on the move via alternate North American routes to minimize the inconvenience to our customers.

The outlook for 1970 is most encouraging and leads me to believe that those of us on the mining side will have to be on the alert if we are to keep pace with this rapidly growing Asbestos Industry.

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CERTAIN-TEED PRODUCTS CORPORATION

Malcolm Meyer, President

I am pleased to have this opportunity to express our heartiest best wishes and season's greetings to our many friends in the Asbestos Industry throughout the world.

Our company looks to asbestos to play an important role in solving one of the most critical needs of this generation — more and better housing. Certain-teed's management has focused on the potentialities of new building techniques, and is developing guidelines for low-income housing. An important step has already been taken by the successful introduction of the Certain-teed House, which employs a new system of masonry construction created by our company. It consists of extruded asbestos-cement components which make a flexible modular system that reduces field construction costs and may be applied to a wide variety of shelter sizes and styles.

As you know, Certain-teed is a major producer and marketer of asbestos-cement pipe for water, sewer, building sewer and irrigation systems. A new Piping Products Division will bring under one management all of the operations of the company which serve the piping needs of municipalities and industry. More effective marketing results are expected to be obtained from these organizational changes.

THE FLINTKOTE COMPANY

James D. Moran, Executive Vice President

The Flintkote Company and its Canadian subsidiary, Flintkote Mines Limited, extends season's greetings to all our friends and readers of ASBESTOS.

Like the asbestos fiber industry in 1969, Flintkote has continued its growth in its "highly diversified line" of building products. This, in spite of tight money, high interest rates and a decline in U.S.A. housing starts. We are confident that during the year 1970 these credit restraints will be reduced or relaxed and that the home building industry and its suppliers will begin to extend themselves to reduce the housing need presently existing in many areas of the country.

Flintkote looks forward to 1970 and the opportunity to serve the expanding industrial requirements for asbestos fiber.

Best wishes for a peaceful and prosperous New Year.

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GAF CORPORATION

R. Power Fraser, Jr., Vice President

The year 1969 was a comparatively good year for the Industrial Products Division of GAF Corporation. It marked the consolidation of the manufacturing and marketing functions of the former American Felt Company, Drycor Felt Company, The Ruberoid Co.'s asbestos, automotive, insulation and granules product lines and the contract sales group of GAF's photo and reprographic operations.

As with other companies, GAF looks toward the new year 1970 with mixed emotions. Economists differ greatly in their prognostications since so many imponderables exist. Will the government change its fiscal policy? Will the construction industry find the money market more relaxed? Will peace break out in Vietnam? Uncertainty about what will develop in these areas and many others makes predictions difficult; however, we tend to be optimistic. Our economy remains strong and healthy; our sales continue upward and our faith remains undiminished.

GAF welcomes this opportunity to extend to all its friends in the Asbestos Industry most cordial greetings and best wishes for a happy holiday season.

JOHNS-MANVILLE CORPORATION

C. B. Burnett, President

At this happy time of year, on behalf of the thousands of Johns-Manville men and women, I would like to extend to all our many friends and associates throughout the Asbestos Industry our best wishes for the holiday season and our warmest hopes for your continued prosperity and happiness in the New Year.

The year just passed was one of mixed blessings for those of us in the Asbestos Industry. On the one hand, the slump in home construction brought on by tight money conditions and high labor costs threatened to cut deeply into the sale of some asbestos-based construction materials.

On the postive side, the worldwide demand for asbestos fiber remained strong, and should continue to expand throughout 1970. The efforts being undertaken by the new administration in the United States to control inflation are starting to bear fruit, and the recent reductions in the costly

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American commitment in Vietnam may eventually release funds for needed construction projects at home. A gradual lowering of our present high interest rates is also in the wind for 1970.

Industry growth should continue throughout the new year, though perhaps at a somewhat slower pace than in recent years. Wage demands will continue to exceed industry price adjustments, and will be a constant source of concern to all.

LAKE ASBESTOS OF QUEBEC, LIMITED

Michael J. Messel, President

Once again it is a pleasure to have this opportunity through ASBESTOS to convey our warmest best wishes for the New Year to our many friends and customers in the Asbestos Industry.

In spite of the uncertain economic conditions in various parts of the world, 1969 was a good year for the asbestos-producing industry, even though we are plagued by inflation, spiralling labor and material costs, which put a squeeze on potential profits and make it ever more difficult to generate sufficient capital required for possible expansion and improved efficiency.

For 1970 the outlook is good and shortages are again indicated in certain asbestos fibre grades.

For the coming year we look forward to continuing our program of improved and more efficient service to our customers throughout the world.

A happy and prosperous New Year to all.

NATIONAL GYPSUM COMPANY

Colon Brown, Chairman of the Board
& Chief Executive Officer

We wish to extend to our friends in the Asbestos Industry best wishes for a prosperous 1970.

In 1969 our subsidiary, National Asbestos Mines, experienced another successful year. The increased capacity through recent expansion was utilized to supply both the needs of our present customers as well as the growing requirements of the National Gypsum Company. The development of new products such as Woodrock Siding and Pre-

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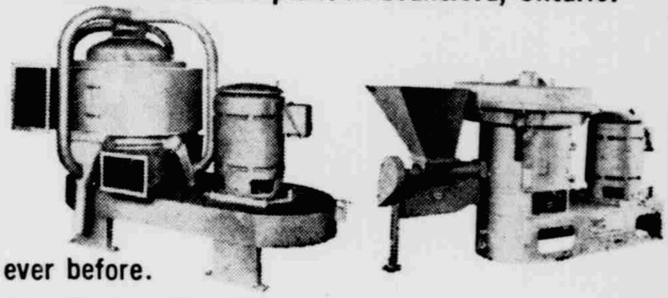
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The Hurricane Pulverizer-Classifier is a rugged air attrition mill with integral classifier. Applications include opening shorter grades of fibre to controlled levels, processing groups 5, 6, 7, as well as floats and tailings, and extracting impurities from usable fibres. Also excellent for recovering usable fibre from material normally sent to the tailings dump, and for classifying fibres collected in dust filters, etc. Simultaneously, this one machine pulverizes, provides sharp classification, extracts impurities, and air conveys material to next operation. Sizes to 150 HP.

When fibre cannot be separated from gritty impurities by conventional methods, add the Centri-Sonic Classifier. This high capacity centripetal classifier does the job with ease! Three sizes, up to 100 HP and 10 tons per hour. Ask for descriptive Bulletins G-4 and G-8.

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finished Soffit Panels have added to the demand by the parent company.

In 1970 we anticipate continued growth in the Asbestos Industry. We are confident of an ability to supply both the increasing requirements of the National Gypsum Company and those of our customers and look forward to another profitable year.

NICOLET INDUSTRIES, INC.

Guy George Gabrielson, Jr., President

It is with pleasure that Nicolet Industries, Inc. again sends holiday greetings to ASBESTOS and its readers.

The past year has been one of challenge and interest, highlighted by problems created as a result of the transfer of our corporate headquarters from Florham Park, New Jersey, to Ambler, Pennsylvania. That move is now complete, most job vacancies have been filled, and we are prepared to move into the 70's with a more flexible and efficient organization. We share the optimistic views of others concerning growth in the demand for asbestos fibers, a growth which can be even more rapid if the Industry is able to attract and train technical personnel who can address themselves to the questions raised by many of the suggested novel applications for our material.

May we all have a happy and prosperous 1970.

RAYBESTOS-MANHATTAN, INC.

William S. Simpson, President

Raybestos-Manhattan is happy to extend season's greetings to the entire Asbestos Industry through your fine publication. We have experienced another fine year of continuing growth for our asbestos products. The addition of another asbestos textile plant recently plus substantial plant additions should enable us to provide even greater volume in 1970.

During the past year we acquired a German friction material company, increasing our participation in the growing world market, and we look forward to further expansion overseas. Expansion of the Cassiar Asbestos mining facilities should also prove beneficial.

We anticipate some slowing down of the American

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As yarn or fabric, Asbeston comes in the widest variety of weights and sizes for every application. For details, write: Uniroyal Fiber and Textile, 350 Columbia Road, Winnsboro, South Carolina 29180

economy in 1970 as a result of the efforts to curtail inflation but we do not foresee this continuing throughout the year. There should be improvement in business conditions during the second half of 1970.

Personnel will continue to be one of our major limiting factors in our growth rate but emphasis on automation should assist us in overcoming this. We look forward to the coming year with confidence and enthusiasm.

TURNER & NEWALL LIMITED

R. M. Bateman, Chairman

The seventies will be the decade of composite materials and the technologies associated with them. Composites are, of course, materials for which asbestos fibre has been the reinforcing agent for a hundred years, but because new roles are being developed for composites, attention will be focused on new types of reinforcement. I believe that for many of these new applications asbestos fibre will, on examination, prove to offer the best combination of properties available, though our research scientists will have to exploit characteristics of the fibre which we have in the past neglected or overlooked, if we are to take full advantage of these new opportunities. In this context the dependence of the Apollo project on asbestos is an encouraging pointer to the future.

Asbestos, in fact, while expanding its use in its traditional building, automotive and engineering applications, is also on the threshold of a new and exciting era. With this firm belief in the future, we in Turner & Newall extend our best wishes for 1970 and for the coming decade to all our friends within the Asbestos Industry.

WUNDERLICH LIMITED

K. O. Brown, Chairman

Wunderlich Limited, which has been a manufacturer of building materials in Australia since 1887, was acquired in October 1969 by The Colonial Sugar Refining Company Limited (C.S.R.), one of the largest and oldest Australian Companies.

As a Director of C.S.R. which has important interests in the manufacture of a wide range of building materials,

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and as the new Chairman of Wunderlich Limited, I send warmest greetings to all friends and associates in the business of the mining of asbestos and the manufacture of products containing asbestos. I wish them all a very successful 1970.

UNIROYAL, INC.
W. Lindsay Wylie, Vice President
& General Manager, Fiber & Textile Division

As in previous years, it is again my pleasure to extend a New Year's greeting to our friends in the Asbestos Textile Industry.

The challenges of 1969 are now behind us, and new and greater ones are just over the horizon in 1970. Uniroyal, Inc. is looking forward to these new market opportunities, and our research, production, and marketing skills will be keyed to the accomplishment of the tasks ahead.

To our suppliers and customers whose cooperation we have enjoyed throughout the past year, we send our best wishes for success in 1970.



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The SS Manhattan

The SS Manhattan, 1005 feet long and the world's first large icebreaker-tanker, recently completed a history-making voyage from the U.S. East Coast to Point Barrow, Alaska, and return, via the fabled Northwest Passage. The expedition, mounted by Humble Oil & Refining Company, was undertaken to determine the possibility and practicality of transporting oil, by tanker, from the Alaskan North Slope fields to U.S. East Coast refineries.

Preparation of the ship for this voyage involved extensive structural and mechanical alterations. The most striking structural modification was the addition of a bow section of completely new design to effectively perform the ice-breaking function. This added 65 feet to the length of the vessel and also increased the beam of the forward section of the hull. High strength propellers and shafting and rudder protection devices were also installed. These major modifications and final preparation of the ship for its "maiden" voyage (in its present form) were performed by Sun Shipbuilding & Dry Dock Company in its yards at Chester, Pennsylvania.

The fact that the ship might encounter temperatures in the range of 50 to 75 degrees below zero made it mandatory that provisions be made to keep operable, under these conditions, the fire mains, steam lines to deck machinery, heating supply and return lines for occupied spaces, sanitary and compressed air lines and other ship's service lines. Since the Manhattan was originally constructed as a conventional tanker for operation in moderate climates, the extensive deck piping common to such ships was not insulated nor was there clearance between the pipes and deck structures and catwalks to permit application of insulation in the conventional manner.

Furthermore, it was necessary to install a pipe-trace system, utilizing heated glycol as the tracer, to provide heat to prevent freezing of fluids in the essential deck piping and to so jacket the service and tracer piping that heat from the tracer would be most effectively used to warm the service piping.

The desired results were obtained by application of Johns-Manville "Metal-On" insulation to the deck piping

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asbestos

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top grade Chrysotile
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"Metal-On" is a factory assembled system consisting of an external aluminum jacket, a vapor barrier material and Thermobestos insulation, the assemblies being snapped over the bare pipes and held in place with "Snap Straps" and stainless steel bands. For the traced piping, the "Metal-On" was specially fabricated in a "long-leg" oval form which conformed to and fully enclosed the non-concentric pipe-tracer combination.

Insulation thicknesses ranging from 1" to 3" were selected to limit heat losses to 15% of bare-pipe loss on non-traced lines and about 10% of bare-pipe losses on lines heated by the glycol tracer system.

The application of this insulation was performed by Philadelphia Asbestos Corporation which also insulated the ships's main engines, numerous interior lines which were relocated during modifications to the boiler room and other interior systems where additional insulation was required to cope with the rigorous service conditions anticipated.

While much study of the Manhattan's voyage will be required to accurately assess the economics of transporting oil by icebreaker-tankers over this route as opposed to pipeline transportation, the results, if favorable, would have far-reaching effects on both the shipbuilding and oil industries. It is estimated some 25 to 30 tankers might be required to establish adequate service on the Northwest Passage run and these ships would probably be larger, incorporate more powerful engines, and involve a considerably stronger basic hull structure than the Manhattan. The modified bow structure and mechanical changes which were retrofitted to the Manhattan would be incorporated in the original construction of such vessels.

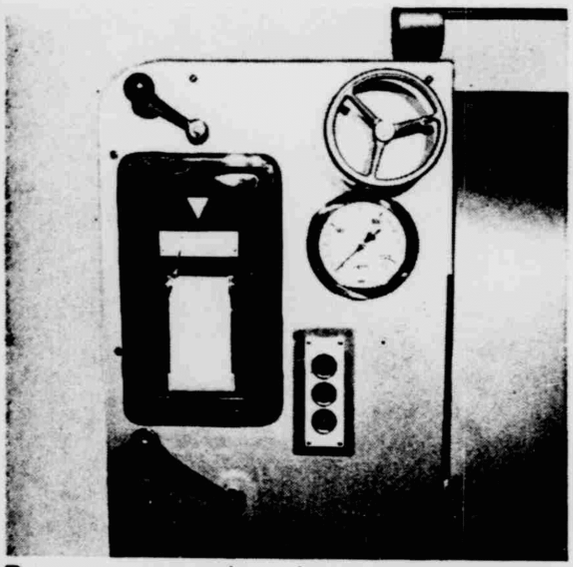
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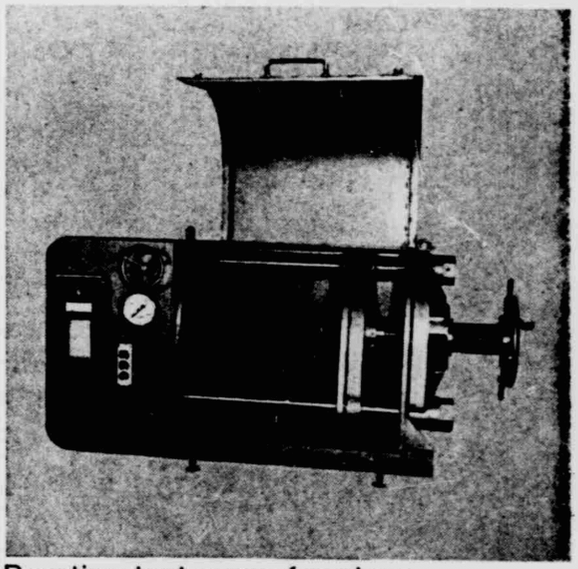
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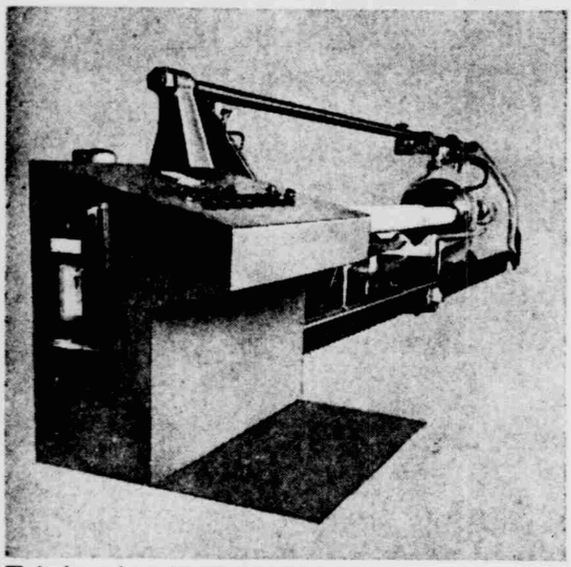
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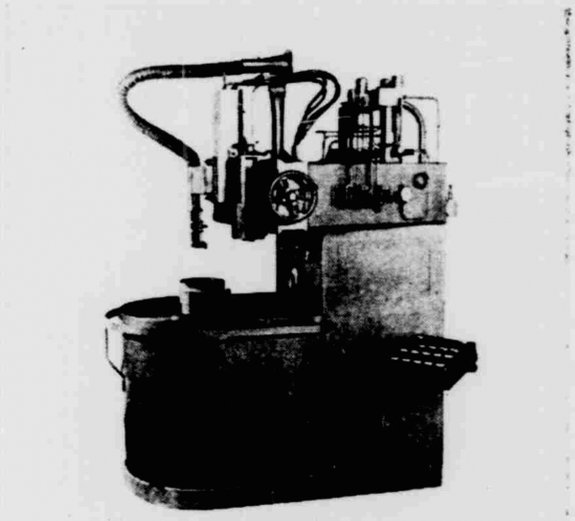
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BBA Group—Executive Change

Charles M. Fenton has been appointed Managing Director of BBA Group Limited, following the retirement, on December 31, 1969, of *R. A. Barber*.

Mr. Fenton had been Deputy Managing Director. He joined the company, then British Belting & Asbestos Limited, in 1953 as a management trainee. He became a member of the Board in 1960 and after reorganization of the company in January, 1967, he became a Director of BBA Group Limited, the holding and management company. He also serves on the Boards of Mintex Limited and Mintex Federal Limited and is Chairman of Scandura Limited, Versil Limited, Regina Glass Fibre Limited and Scandura, Inc. (U.S.A.).

Mr. Barber joined the firm in 1926 at age 19. He progressed rapidly through various positions including Foreman in the Press Department, Mintex Production Superintendent, Mintex Production Manager and General Works Manager. In 1956 he joined the Board of Directors and in 1960 he was named Deputy Managing Director of the company. The Group was reorganized in 1967 and Mr. Barber was appointed Managing Director of Mintex Limited. On January 1, 1968, he joined BBA Group Limited as Deputy Managing Director and was appointed Chairman of Mintex Limited. In 1969 he was appointed Group Managing Director.

We wish much success to Mr. Fenton in his new responsibilities and many, many happy retirement years to Mr. Barber.

F. L. SMIDTH & CO. A/S, Copenhagen, Denmark, has established its former Asbestos-Cement Department as an independent consultant department to accommodate the increase in business activity. Mr. Jorgen A. Ottosen, Civil Engineer, will be in charge of the new Asbestos-Cement Department. He formerly was responsible for sales of asbestos-cement machinery.

Smidth has been a specialist in cement-making equipment for more than 70 years and has a long-standing reputation for its contributions to the development of machinery and manufacturing techniques for use in the asbestos-cement industry.

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In Memoriam

J. STUART SMART, JR., Vice President of Research and Market Development, American Smelting and Refining Company, died at New York Hospital on Sunday, December 7, after a short illness. He was 56 years old.

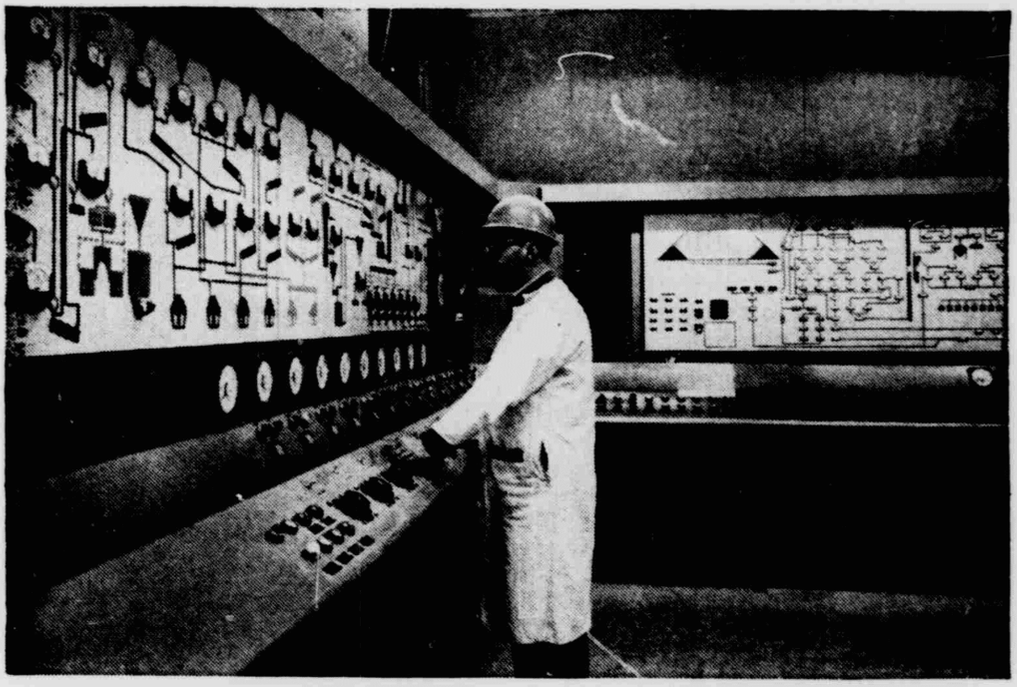
A native of Des Moines, Iowa, Mr. Smart graduated from the University of Michigan in 1934. He joined the Research Department of Asarco in 1936, progressed through various posts, was named General Sales Manager in 1958 and was elected Vice President in 1967. While Superintendent for copper developments for the company, he was instrumental in the development of the Asarco continuous casting process for copper.

Mr. Smart was active in many trade and technical associations including the International Lead and Zinc Research Organization, the Zinc Institute, the Lead Industries Association, the American Institute of Mining and Metallurgical Engineers, the Engineering Foundation Board and the United Engineering Trustees. In 1967 he was elected a Fellow of the Metallurgical Society.

In lieu of flowers, it has been requested donations be made to the Scholarship Fund of the College Men's Club of Westfield, New Jersey.

RAYBESTOS—MANHATTAN, INC. has announced a $2 million program to expand disc brake capacity at its plant in Stratford, Connecticut. The new facility, comprising 36,000 square feet of manufacturing floor space, will be built on the company's present property. R/M currently employs 1600 people at the Stratford plant and when completed, in the summer of this year, the addition will create more than 100 new job opportunities.

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QAMA Proposal

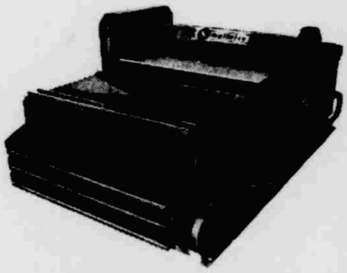
QAMA proposed that "A formula must be devised to enable certain regions and certain economic activities to operate normally on a bilingual basis regardless of what other centers and other sectors of the economy may pursue by way of a language policy in keeping with their own aspirations and cultural objectives." This proposal for a *bilingual language policy* is one of the key recommendations of the brief from the asbestos mining industry in Quebec, via the *Quebec Asbestos Mining Association*, to the Gendron Commission on the status of the French language and on Linguistic Rights in Quebec.

According to the 3000-word document, 95.5% of the industry's 6000 employees are French-speaking. In all, 99.9% of the hourly-paid employees and 80% of the salaried personnel are French-speaking. Unilingual French-Canadians make up 67% of the work force in asbestos mines while bilingual French-Canadians and English-Canadians account for 30.7%. French is the general working language up to the supervisory level. English-languange blue collar workers must have an acceptable knowledge of French since it is impossible for them to work solely in English.

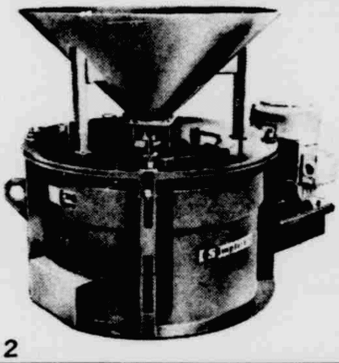
The Asbestos Industry maintains a completely bilingual policy with regard to collective bargaining negotiations and contracts, job descriptions, in-plant bulletins, instruction manuals and other communications. It offers free language courses to all employees seeking to better their French or English. Because asbestos-mining is essentially an exporting industry and since English is the language of international commerce, the industry's technical, middle-level or senior management personnel in Quebec must have or acquire a knowledge of English. In Quebec's asbestos industry, English unilingualism is a serious handicap for any employee whose job entails constant communication with French-Canadians.

QAMA also suggests, as a means for preserving and strengthening the use of the French language in Quebec, the introduction of compulsory and intensified French instruction throughout the existing English school systems. Such a step would enable all Quebec school children, irrespective of ethnic background, to acquire a working knowledge of French by the time they graduate from high school.

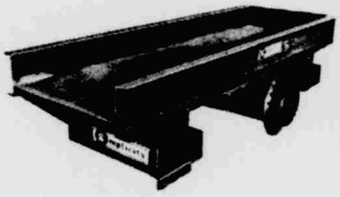
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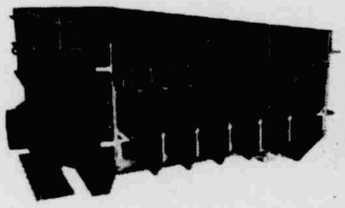
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MARKET CONDITIONS

General Business.

There are increasing signs of a slowdown in general business. Retail sales in the pre-Christmas season have been disappointing and the automakers are cutting back production due to sluggish new car sales. Apparently the Government's tightened fiscal and monetary policies are finally achieving the results predicted when they were first put into effect.

For the first time in some years there are sharp divergences of opinion between leading economists as to the direction of the economy in the near and longer-term future. The majority opinion seems to indicate a deflationary situation during the first half of 1970 and a pickup in the latter part of the year. So many conflicting forces are at work that only time will tell what will actually transpire.

Asbestos Fiber.

The total of Canadian shipments of asbestos fiber for 1969 will probably exceed the figure recorded for 1968. The demand for longer grades continues strong and the supply of such fibers is tight. Shorter grades are in good supply and in certain grades slight surpluses exist. To date there is no marked indication of decreasing demand for asbestos fiber but a slowdown in the U.S. economy would certainly be reflected in a decline in fiber shipments to this country. Price increases on fiber, previously announced, become effective this month. This could well affect the pricing of most manufactured asbestos products in the months to come.

The market for Arizona filter fiber is strong and is expected to continue so well into 1970.

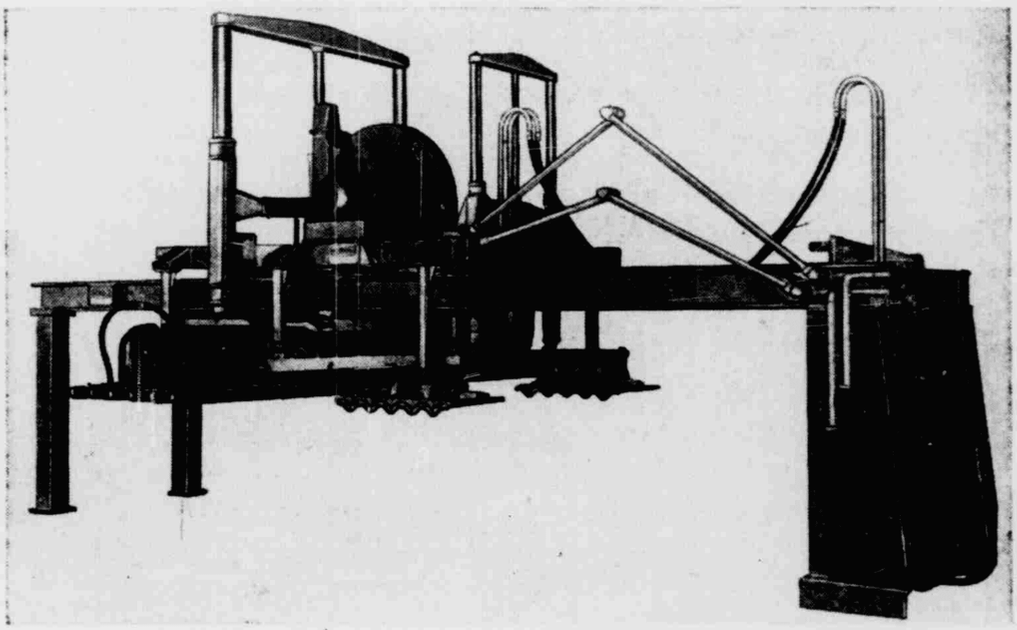
Asbestos—Manufactured Goods.

Asbestos Textiles: The market for asbestos textiles is very strong due to continued high demand for industrial and governmental uses. The better grades of raw asbestos fibers suitable for textiles are in particularly short supply. Announced price increases on fiber to be effective in January 1970, plus advances in other costs, indicate higher prices

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for textile products may be necessitated at some future date. The present order position generates considerable optimism that the current high demand will carry over well into 1970.

Asbestos Brake Lining: The market for asbestos brake linings is very strong. While a slackening in new car sales is apparent at present, any decrease in original equipment sales should result in a more than compensating increase in sales of replacement linings to keep older vehicles on the road. Generally good business is predicted for 1970.

Asbestos Paper: Sales continue at a steady pace with no significant changes in either direction. Barring some unforeseen change in the general economy, it is thought present volume should be maintained for some time to come.

Asbestos Millboard: Volume for 1969 was at a satisfactory level and no pronounced change is expected in the immediate future.

Asbestos Felt: Demand for this product is quite strong —better than had been predicted some months ago. The outlook is good.

Asbestos Flat Sheets: The market for these products is no better than "average" at this writing.

Asbestos Corrugated Sheets: No great change is noted in the market for corrugated. Seasonal weather conditions in much of the nation are now tending to slow down building activities with a consequent slackening demand for all building products.

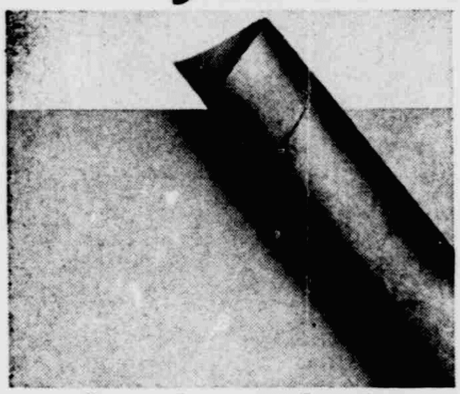
High Pressure Insulation: Prices in this market have firmed and volume shows signs of increasing.

Asbestos-Cement Shingles, Roofing & Siding: The normal winter slowdown is just starting. Sales of these materials are expected to get off to a slow start in the first few months of 1970.

Asbestos-Cement Pipes: The continued tight money policy and forecasts of reduced housing starts are adversely affecting sales of pressure pipes. In the West, lack of spending by the Bureau of Reclamation has contributed to de-

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pressed markets for such pipes. Emphasis on anti-water-pollution projects has kept sewer pipe sales at a high level and increased use of ducts by the telephone industry in its systems modernization program has also had a positive effect on the market for such materials.

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

IIHRP PROGRESS REPORT—The Insulation Hygiene Progress Report, Winter 1969, published by the Insulation Industry Hygiene Research Program, is just off the press. Featured is a report on some very encouraging tests of systems designed to reduce dusts produced as a result of cutting molded insulating materials with band saws, a common practice in on-the-job fabrication of such materials. Copies of the Progress Report are available on request.

GAF CORPORATION will undertake a major expansion program at its *floor products plant*, Whitehall, Pennsylvania, to meet the increasing demand for sheet vinyl floor coverings. Over $10 million will be expended for building, equipment and auxiliary facilities and completion of the project will substantially increase GAF's capacity to manufacture sheet vinyl flooring with inorganic felt backing, particularly in the popular 12-foot widths.

Included in the program are the construction of a new asbestos felt mill, additions to existing print lines and modifications of existing ovens.

The new felt mill will include facilities for raw material storage, liquid chemical storage, stock preparation, a felt machine, finished felt and in-process storage and mill effluent treating. Construction of the felt mill will begin early this year and is expected to be completed by the end of 1971.

GAF CORPORATION has completed a multi-million dollar expansion project at its *chemicals plant* at Linden, New Jersey. The additional facilities more than double the company's production capacity and make GAF one of the largest producers of chlorine and caustic soda on the East Coast.

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CERTAIN-TEED BADGER is a newly-formed subsidiary of *Certain-teed Products Corporation* following the purchase, by Certain-teed, of Badger equipment from *Hudswell Badger Limited,* Leeds, England. Certain-teed is now licensee for the Badger System in the United States.

Basically, the Badger equipment forms tunnels through the ground and pulls in, or feeds down, long strings of pipe into the pre-formed tunnel, with very little disturbance of the ground at the surface. The pipe can be laid to exact grade to depths of up to 9 feet, in diameters up to 20 inches. In addition to speeding up pipe installations under normal conditions, the pipe can be installed in conditions which could otherwise render a project prohibitive, cost-wise.

According to a spokesman for Certain-teed, "This installation system becomes available at a most opportune time, when our country's needs require many miles of pipeline for water and sewer systems and for gas, oil, land drainage and communications conduit."

SIMPLICITY ENGINEERING COMPANY has issued Catalog No. HS-81 to describe its line of horizontal vibrating screens. The new catalog provides complete design information and illustrates the screen's straight-line motion cycle, the vibrator assembly and frame, and the two mounting structures offered for stroke intensity variation. It also includes a capacity rating table, dimension charts and a product application questionnaire that can be filled in and returned to the company for quick evaluation of application requirements.

JOHN-MANVILLE CORPORATION has appointed *Western MacArthur Company,* of San Francisco, California, as a master stocking distributor of its Permatone "S" Flexboard. For years, Western MacArthur has handled other building and industrial materials manufactured by J-M. Permatone "S" Flexboard combines a factory-applied finish with an asbestos-cement building sheet. It is pressed and repressed in manufacture and is steam cured. The product is used for building exteriors, interior walls, ceilings and partitions, and miscellaneous applications such as table and counter tops and room dividers.

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ALL TYPES OF ASBESTOS CEMENT MACHINERY

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Building

From: McGraw-Hill Information Systems Company

OCTOBER 1969—The Dodge Index of construction contract value rebounded in October to 195, 13% over the previous month. The level of contracting, $6,240,338,000, was 1% above the comparable year-ago value.

Nonresidential—A large gain in hospital-health facility construction helped boost nonresidential building contract value to $2,501,757,000, ahead 6% over October 1968.

Residential contract value totaled $2,290,080,000, 5% below the comparable year-ago amount. Apartment construction gained while one-family building eased back.

Nonbuilding—A 4% gain over last year brought the non-building construction contract value to $1,448,501,000. Highway contracting showed a large increase. Several electric generating plants were initiated in October. Public works projects were down sharply.

NOVEMBER 1969—The Dodge Index of contracts for future construction declined to 178 and total contract value reached $4,406,283,000, 9% below November 1968. Most of the drop was concentrated in nonresidential building.

Nonresidential—Contracts for nonresidential building fell to $1,565,727,000, 21% below last year's total. Educational building has become a construction drop-out, largely due to the cost of credit. Due to the extraordinary surge in bond rates, the volume of school bond issues since mid-year has dropped to less than half its former total. In line with this, contracting for educational construction was down 50%. Another severe drop was the amount of public building contracts — less than 1/3 of the year-ago amount.

Residential contracts totaled $1,675,230,000, 18% lower than the year-ago total. Both one-family housing and apartments showed modest seasonally-adjusted improvement but most of this was offset by a sharp decline in nonhousekeeping contracts.

Nonbuilding—At $1,165,326,000, the total of contracts for nonbuilding construction showed little change from October's seasonally-adjusted rate, but due to the Federal freeze on highway funds that occurred in the final months of 1968 it was 41% above the comparable year-ago total.

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Automobile Sales

OCTOBER 1969 motor vehicle factory sales from plants in the *United States* totaled 1,048,525 (passenger cars —856,821, trucks and buses—191,704). The total for October 1968 was 1,125,214.

Motor vehicle factory sales from plants in *Canada* totaled 135,904 in October 1969 compared with 131,517 in October 1968.

THE ASBESTOS-CEMENT PRODUCTS INDUSTRY, with particular reference to asbestos-cement pipe, is the title of an Industry Study recently made by the *Government of the Province of British Columbia*. Its purpose was to explore the feasibility of manufacturing asbestos-cement products, especially pipe, in the Province and to provide additional insight into the industry to encourage further development.

The report outlines the production and uses of asbestos products generally in Canada and presents more specific information on asbestos-cement pipe consumption in British Columbia. A brief description of production requirements is shown in the appendix.

The further manufacture of asbestos-cement products in British Columbia merits serious consideration, especially with a view to serving the western Canadian market. Proximity to the northwestern United States and the Pacific Rim area offers the possibility of developing an export market. Results of the study indicate that purchases of asbestos-cement pipe in British Columbia exceed those of pipe composed of other materials. Part of the reason for this is its wide range of applications and its substantially lower cost. At present, the only asbestos-cement products manufactured in the Province are siding, shingles, wallboard, corrugated board and similar items.

FUTURE ASTM COMMITTEE MEETINGS: Committee D-13 on Textile Materials, Belmont-Plaza, New York City, March 2-6; Committee D-14 on Adhesives, Ramada Inn, Cocoa Beach, Florida, March 18-20.

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, 18,218,000 square yards of non-acoustic asbestos-cement sheets were produced in Australia during the *First Half of 1969*, compared to 18,463,000 square yards for the same period in 1968.

Australia—Imports of asbestos for the *First Half of 1969* totaled 25,081 short tons, valued at $3,265,000, compared to imports of 31,707 tons, valued at $3,946,000, for the same period the previous year. These figures were supplied by the Commonwealth Bureau of Census and Statistics, Canberra.

Canada—Producers' shipments of asbestos during *September 1969* totaled 147,336 short tons (123,348 tons from Quebec and 23,988 tons from Newfoundland, Ontario, British Columbia and Yukon plants). The total for September 1968 was 123,985 tons.

The cumulative total for the *First Nine Months of 1969* was 1,092,692 tons, compared to 1,040,953 for the period January-September 1968. (Dominion Bureau of Statistics, Ottawa).

Cyprus—The Geological Survey Department, Nicosia, has submitted its "Annual Report for the Year 1968." Included in the Report is a table of the quantity and value of minerals exported by Cyprus for the years 1964-1968. Exports of asbestos in 1968 amounted to 17,700 tons, valued at £784,494. This compares with the 1967 figure of 18,541 tons, valued at £790,826.

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

The Mineral Industry of Rumania—Petroleum production continued to be Rumania's most important contribution to world mineral supplies in 1968. Although a total of imports is not available, the U.S.S.R. supplied 7,200 metric tons of asbestos to Rumania in 1967.

The Mineral Industry of Thailand—The country's economy in 1968 resumed its rapid expansion after a slight setback caused by drought in 1967. Preliminary estimates for 1968 indicate more than an 8% growth in the gross national product, at 1962 prices. The Republic of South Africa, Canada and Cyprus were the principal sources of the 24,107 metric tons of crude asbestos imported in 1967.

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Exports From U.S.A.

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

Unmanufactured Asbestos:

Crude & Spinning Fibers	s. tons	103	$ 21,664
Non-Spinning Fibers	s. tons	1,323	217,570
Waste & Refuse	s. tons	1,810	210,143
		3,236	$ 449,377

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	1,856,997	$ 157,253
Other Asbestos-Cement Articles	Lb	632,419	115,258
Gaskets & Packing	Lb	390,608	520,819
Textiles & Yarns	Lb	496,499	151,640
Mfrs. other than Friction Materials		..	469,878
Clutch Facings & Linings for auto. use	No	223,225	172,435
Clutch Facings & Linings, Other	No	60,084	34,116
Brake Linings for automotive use	Lb	623,804	431,800
Brake Linings, Other	Lb	291,054	217,845
			$ 2,271,044

Exports From Canada

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

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Eastern Europe	..	94	2,805	273
Western Europe	2	1,889	16,953	11,488
Middle East	..	..	750	487
Africa	..	..	150	29
Asia	5	213	9,163	12,275
Oceania	..	..	3,262	869
So. & Cen. America & Antilles	..	84	8,684	3,277
United States	..	1,134	22,004	35,438
	7	3,414	63,771	64,136

The total amount of unmanufactured asbestos exported in *September 1969* was 131,328 short tons, valued at $18,181,000.

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 94,000
Asbestos-Cement Building Materials	94,000
Asbestos Basic Products, Other	96,000
	$ 284,000

Asbestos Magazine, 1970, January 1970
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INDUSTRY NEWS

HAPPY BIRTHDAY

Walter D. Baldwin, Vice President-Administration, Uniroyal, Inc., New York City, January 16.

P. C. McCarroll, Superintendent, Durabestos Works, Wunderlich Limited, Rosehill, N.S.W., Australia, January 16.

John K. Whittaker, Vice President-Marketing, Nicolet Industries, Inc., Ambler, Pennsylvania, and President of Nicolet's subsidiary, Protective Papers, Inc., Hollister, California, January 18.

William E. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, January 21.

J. Zaha, Works Manager, St. Louis Works, Thermoid Division, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, January 23.

John Arthur Brown, Jr., Product Manager for asbestos textiles, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, January 24.

Eric G. Scott, Finance Director, Wunderlich Limited, Sydney, N.S.W., Australia, January 25.

H. G. (Mike) Donovan, Sales Manager (U.S.), Asbestos Fibre Division, Johns-Manville Research & Engineering Center, Manville, New Jersey, January 27.

Herbert S. Hirschfeld, Manager, Standard Asbestos Company, New York City, January 27.

Nelson Bain, President, Asbestos Erectors of Canada Limited, Montreal, Quebec, Canada, February 1.

A. Richard Morgan, Director of Research, Philip Carey Corporation, Cincinnati, Ohio, February 1.

William G. Neel, Export Manager, Building Products Division, GAF Corporation, New York City, February 1.

James A. Suddeth, Vice President of Industrial Sales, Building and Industrial Products Division, Philip Carey Corporation, Cincinnati, Ohio, February 1.

Mrs. L. H. Saitta, Chairman of the Board, Asbestos Corporation of America, Garwood, New Jersey, February 2.

R. Power Fraser, Jr., Vice President, GAF Corporation, New York City, February 3.

George F. Ducker, Vice President & General Manager, North Charleston, South Carolina, division, Raybestos-Manhattan, Inc., February 5.

C. G. Bourne, Production Manager, Asbestos Corporation Limited, Thetford Mines, Quebec, Canada, February 8.

Ralph L. Bullock, Sales Manager, Industrial Products Division, GAF Corporation, Staffordville, Connecticut, February 8.

Dudley T. Colton, Vice President & General Manager, International Division, Johns-Manville Corporation, New York City, February 8.

A. Joseph Fontana, Director of Industrial Relations, Uniroyal, Inc., New York City, February 8.

R. H. Dent, Group Chairman & Managing Director, The Cape Asbestos Company Limited, London, England, February 9.

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Asbestos on the moon.

When we arrived on the moon, asbestos got there, too. For our asbestos fibers fortify J-M Min-K® insulation, specified for the Lunar Excursion Module in the Apollo Project.

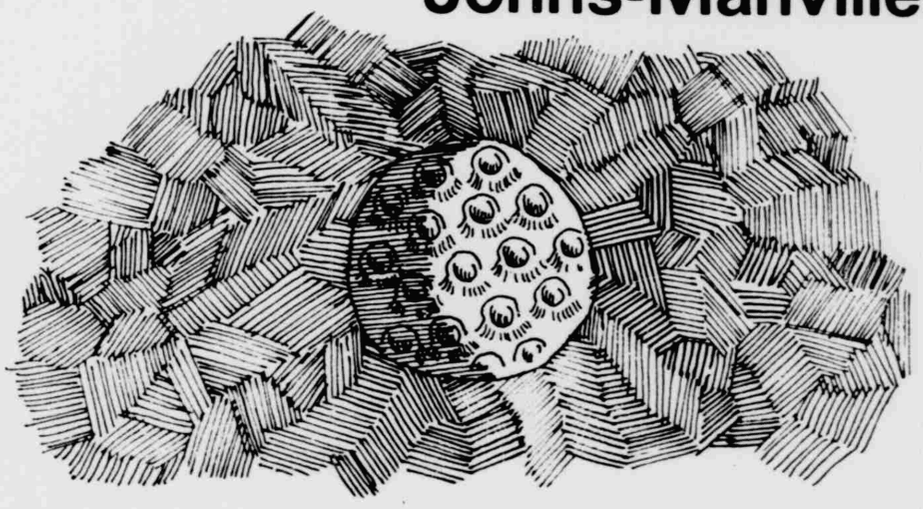
Back on Earth, you can find asbestos just about everywhere you look. In industry, our asbestos fibers add strength and fire-retardant qualities to J-M Transite® pipe, insulation, and clutch and brake linings. To mention just a few.

We have over 100 grades of asbestos. For just about any application imaginable. We'd like to show you what they can do for you.

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C. Fred Workman, Executive Vice President & General Manager, Protective Papers, Inc., Hollister, California, February 9.
Clark H. Harrison, First Vice President, The Clark Asbestos Company, Cleveland, Ohio, February 10.
Stanley E. Price, Vice President-Marketing & President of Certain-teed Badger, Piping & Plastics Industries Division, Certain-teed Products Corporation, Fort Washington, Pennsylvania, February 10.
John K. Locher, Assistant Secretary, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, February 11.
R. H. Bullied, President, Pacific Asbestos Limited, Calgary, Alberta, Canada, February 12.
James D. Moran, Executive Vice President, The Flintkote Company, White Plains, New York, February 12.
Herbert L. Levine, President, Asbestos Products Manufacturing Company, Newark, New Jersey, February 13.
A. B. Marchant, Vice President for Industrial Relations, Johns-Manville Corporation, New York City, February 13.

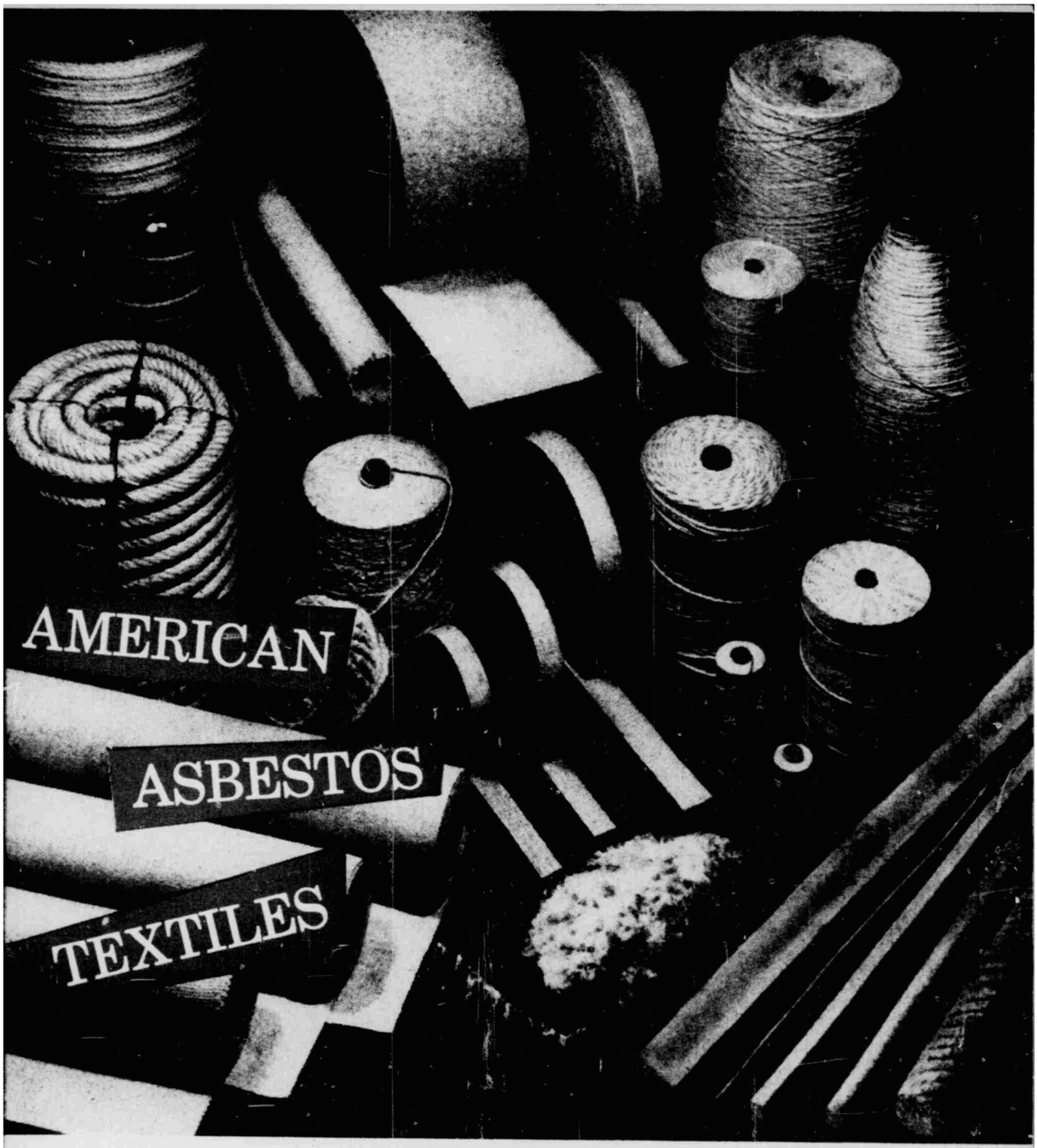
To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

1968 Annual Census of Manufacturers has been taken by the *Dominion Bureau of Statistics*, Ottawa, Canada. The following preliminary statistics on "Asbestos Products Manufacturers" were issued by the Bureau in Catalog No. 44-203-P. In 1968, the value of shipments of automotive, molded asbestos brake linings was $5,907,000; shipments of asbestos textile products were valued at $877,000; and the value of shipments of asbestos paper products was $1,068,000.

Mine Environments—The following Technical Papers concerning "Mine Environments—Their Makeup and Control" were published in the November 1969 issue of The Canadian Mining and Metallurgical Bulletin: *Dust-Sampling Research and Its Application to Mining*, by G. Knight, Research Scientist, and *The Electronic Scanner—An Instrument for the Rapid Counting of Konimeter Dust Spots*, by Peter Chmara, Senior Ventilation Engineer.

Safety in Mineral Industries, an annual Mineral Industry Survey of the *U.S. Bureau of Mines,* offers statistics on injury experience and worktime in the mineral industries of the United States for the years 1967 and 1968. Injury experience in the mineral mining and processing industries during 1968 was slightly improved over 1967 in the nonfatal-injury record but worse in the fatality record.

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AMERICAN ASBESTOS TEXTILE CORPORATION

PLANTS AT NORRISTOWN, PA. MILFORD SQUARE, PA. MEREDITH, N.H. TOLUCA, MEXICO

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Sociedade Anonima Mineracao de Amianto, one of the major producers of asbestos fiber in Greece, reported an output of 4,360 metric tons of fiber in 1968 and projected an output of 8,000 tons for 1969. Imports of asbestos in 1968 totaled 27,586 tons. The company's development and production activities have been transferred from their former site in Bahia to Cana Brava at Uruacu, Goias, (Mineral Trade Notes, December 1969).

The Hellenic Industrial Development Bank (ETVA) plans to develop its asbestos mines at Microvaltos, Servia, in the Kozani area of Greece. It is expected that $6 million will be invested for exploration and for the construction of a plant to annually process 700,000 metric tons of asbestos-bearing ore, for a yield of 25,000 to 30,000 tons of fiber.

ETVA controls 95% of the shares of the Greek Asbestos Company S.A., a corporation formerly owned by the Kennecott Copper Corporation. (Mineral Trade Notes, December 1969).

Abitibi Asbestos Mining Company Limited has completed surface drilling on its asbestos property in Maizerets Township, Quebec, Canada. It is estimated there are some 102.8 million tons of Chrysotile cross fiber asbestos-bearing rock containing cement grade fiber. The deposit is workable by open-pit mining to a maximum depth of 1100 feet. At current prices, the asbestos content has an equivalent market value of $4.87 per ton of ore. The waste rock to ore ratio is less than 1.7 to 1. A vertical shaft has been sunk for 200 feet near the east end of the deposit and a crosscut has now advanced into the fiber zone and will continue across the full 850 foot width of the zone. (The Northern Miner.)

Pacific Asbestos Limited received the final feasibility report on its Woodsreef asbestos project, near Barraba, New South Wales, Australia, from *Watts, Griffis and McOuat Limited.* The studies have shown that the deposit is an extremely valuable orebody and that substantial returns on investment can be expected. It was recommended the deposit be brought into production without delay.

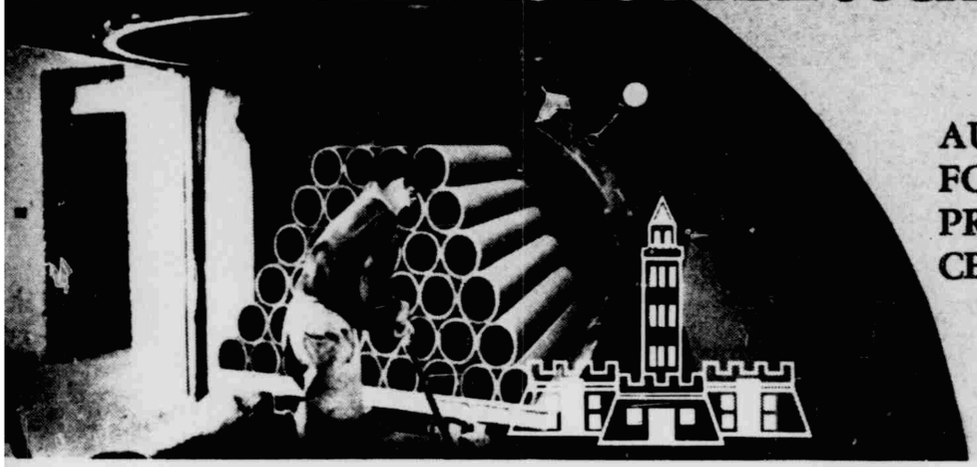
Ore reserves are based on over 50,000 feet of diamond drilling, bulk sampling and other testing. Proven ore reserves were calculated at 27,000,000 tons, with a sales value of about $8.00 per ton. The recoverable fiber content is estimated to be 4.4% and at the projected production rate, reserves are assured for 19 years. Opportunities for developing additional reserves, below the present pit design and along strike to the north, are excellent.

A total estimated capital requirement of $17,040,000 (Canadian) is needed to construct all necessary facilities to produce 70,000 tons of fiber per year. Mining will be by open pit to a depth of 650 feet, with a waste to ore ratio of 1.62:1. Milling will be conducted at an approximate rate of 5,000 tons per day, six days per week.

The deposit is situated on mining tenements held by *White Asbestos (Mining) Pty. Limited,* a subsidiary of Pacific Asbestos.

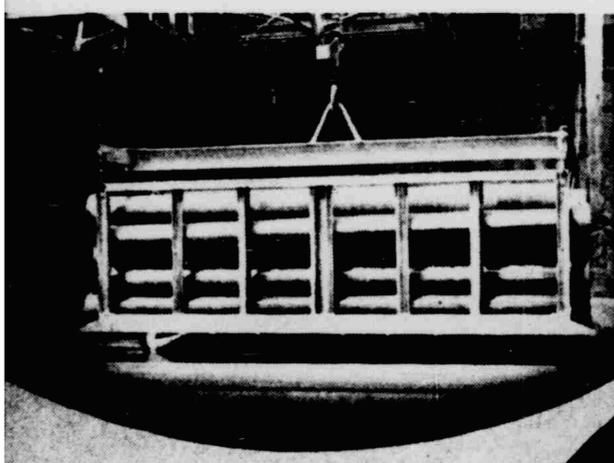
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

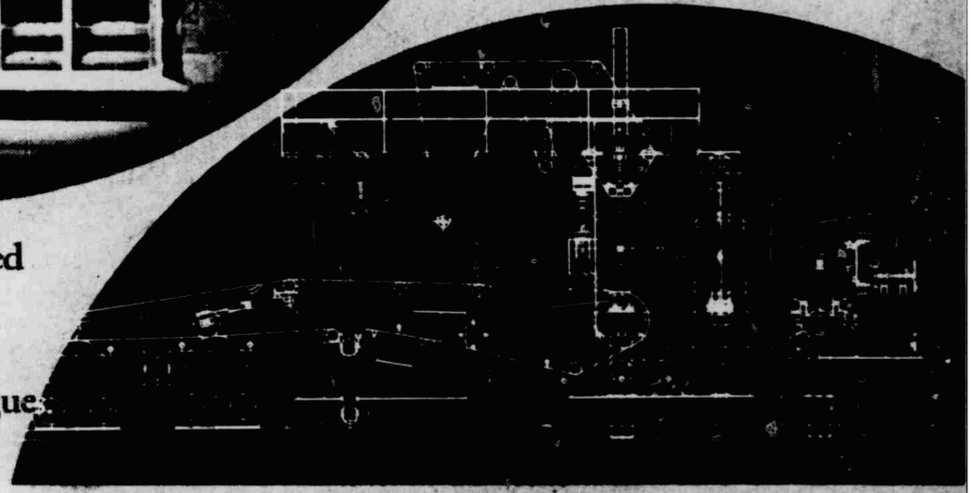


AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

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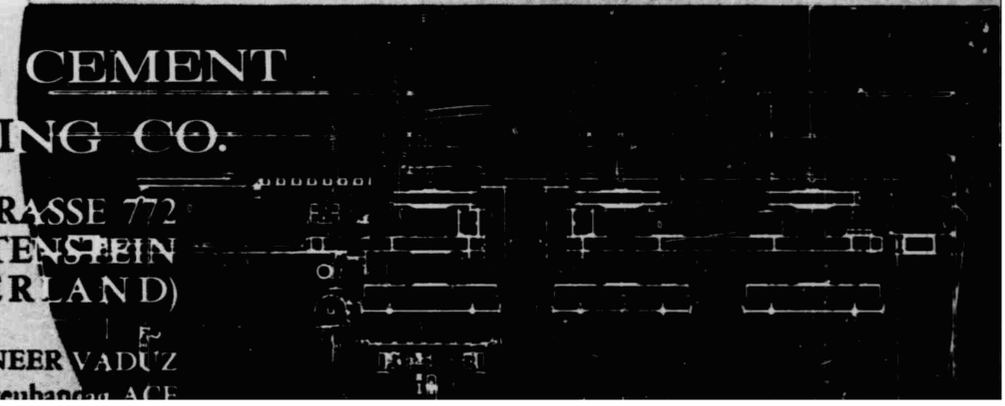


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PERSONNEL NEWS

GAF CORPORATION

Garry Cohen has been appointed to the post of Architectural Contract Representative, Floor Products Division. He joined GAF in 1966 as a Sales Representative.

JOHNS-MANVILLE CORPORATION PIPE DIVISION

H. S. (Hank) Goodspeed, as Chief Engineer, will evaluate all J-M products as to the applicability and practicability of design and installation of pipe. *R. G. Kinch* replaces Mr. Goodspeed as Product Manager, Drain Pipes. The New Manager of the Pipe Division at Manville, New Jersey, is *Jack Cran. Don L. Dasbach* replaces *William Christman* as District Sales Manager of the Jacksonville, Florida, District. Mr. Christman has been promoted to Pipe Division Manager for Long Range Planning. *J. H. Dale* was appointed District Manager of the Cleveland Sales District.

NATIONAL GYPSUM COMPANY

The appointment of *John P. Hayes* as President of the Building Products Division was announced by Colon Brown, Chairman of the Board of Directors and Chief Executive Officer of the corporation. Mr. Hayes was formerly Vice President-Merchandising Operations, Building Products Division.

NICOLET INDUSTRIES, INC.

Kay Rood, Managing Director of the International Division, announced the appointment of *Leonard C. Young* as Sales Representative for the West Coast and the Orient. He was formerly Vice President of Cal-Metal Corporation.

Protective Papers, Inc., Hollister, California, a subsidiary of Nicolet, has named *John E. Noble* as District Sales Manager for Southern California, Arizona and New Mexico. He was formerly District Sales Manager for Taylor Products Corporation and Sales Manager for Asbestos Products & Fabricators.

RAYBESTOS-MANHATTAN, INC.

William S. Simpson, President and Chairman of the Board, announced the appointment of *Joseph T. Hepp* as President of R/M International. Mr. Hepp will be located at the company's Corporate Headquarters in Bridgeport, Connecticut, and will be responsible for R/M's overseas affairs including foreign licensing, royalty arrangements, technical assistance agreements and foreign manufacturing policies. He was formerly with Sealed Power Corporation as Manager of International Operations.

SIMPLICITY ENGINEERING COMPANY

John William Goode was appointed Sales Representative and will be responsible for the sale of screens, feeders, conveyors, foundry shakeouts and crushers. His territory includes New Jersey, Eastern Pennsylvania, Delaware, Maryland and Northern Virginia.

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Screens, Aspirators, Fiberizers, Willows, Dusters, Graders, Mixers, Pressure Packers, Samplers, Weigh Hoppers, Bag Tilters.

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ASBESTOS STOCK QUOTATIONS

Close—December 26, 1969

Abitibi Asbestos	*$6.10
Advocate	*$2.30
Asarco	31¼
Armstrong Cork	35¾
Armst Cork (pfd 3.75)	53
Asbestos Corporation	*$26.50
Bendix	34
Bendix (pfd 3)	53
Carlisle	14¼
Cassiar	*18.37
Certain-teed	20½
C-teed (pfd .90)	21
Conwest	*$15.37
Flintkote	24½
F-kote (pfd-A 4.50)	77½
F-kote (pfd-B 2.25)	36
GAF Corporation	15¾
GAF (pfd 1.20)	23¼
Garlock	18⅜
Glen-Alden	8¾
G-Alden (pfd 3.15)	61
G-Alden (pfd 3)	58
G-Alden (pfd 2.25)	33
Grace	27
Gulf & Western	19½
G&W (pfd 1.75)	64
G&W (pfd 3.50)	82
G&W (pfd 3.87)	47½
G&W (pfd 5.75)	60⅜
Johns-Manville	30¼
Maremont	9½
National Gypsum	23⅛
Natl Gypsum (pfd 4.50)	58½
Patino	*$47.75
Porter (pfd 5.50)	69½
Raybestos-Manhattan	44½
Unarco	9
Union Carbide	37⅞
Uniroyal	19⅞
Uniroyal (pfd 8)	100
United Asbestos	4

*Canadian currency
(Source: The Wall Street Journal)

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

AD 694 004—The Function of Adhesion Promoters in Adhesive Bonding, by W. D. Bascom of the Naval Research Laboratory, Washington, D. C.; reviews recent research on silane adhesion promoters.

AD 694 949—Reduction in Number of Airborne Bacteria by Air Cleaning Devices in a Closed Space, by W. B. Shreve et al, National Naval Medical Center, Bethesda, Maryland; evaluates the performance of a portable electronic air cleaner and a high-efficiency particulate air filter module.

NASA SP 5076—Contamination Control Handbook, prepared by Sandia Laboratories for the George C. Marshall Space Flight Center; an assemblage of information for those engaged in contamination control in industrial and related operations.

PB 185 592—A Computer Program for Sewer Design and Cost Estimation, by the Regional Planning Council, Baltimore, Maryland, for the Department of Housing and Urban Development.

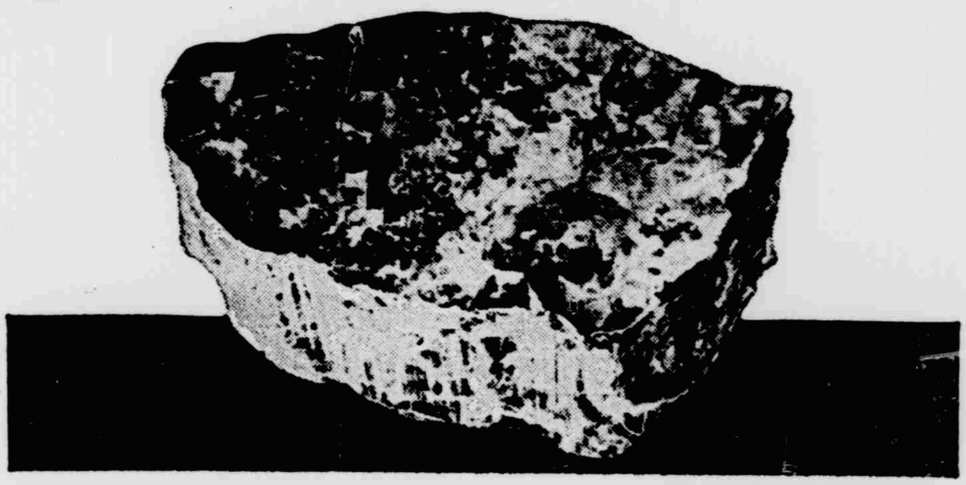
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BUILT ON A ROCK

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.

THE ASBESTOS DIVISION OF **SCANDURA LIMITED**

A MEMBER OF THE BBA GROUP CLECKHEATON · YORKSHIRE · ENGLAND



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Remember When?

(January 1920 ASBESTOS)

New Advertisers: Smith & Furbush Machine Company; Sall Mountain Company; Hobdell, Way & Company Limited.

ASBESTOS announces its good fortune in having secured **Mr. Oliver Bowles,** Mineral Technologist to the U.S. Bureau of Mines, as a contributor. The first article by Mr. Bowles appears in this issue. It concerns the examination of samples of asbestos from a deposit in the Philippine Islands showing them to be an amphibole, too brittle and too low in tensile strength to be of any value for spinning purposes.

Jacob A. Jacobs has sold his controlling interests in Jacobs Asbestos Mining Company and Federal Asbestos Mining Company to Sir Mortimer B. Davis.

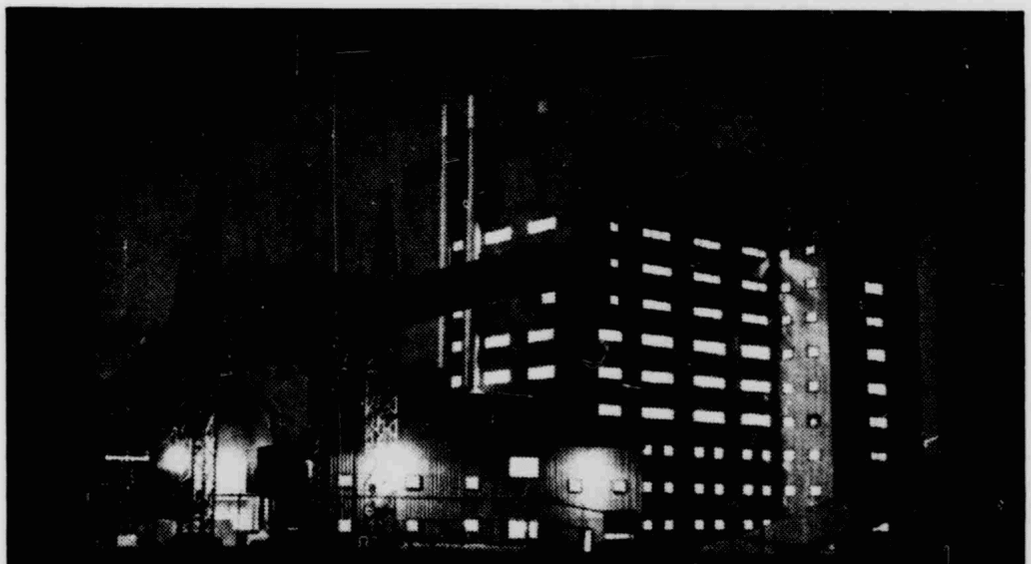
George Schafenacker, Treasurer of Asbestos Fibre Spinning Company, North Wales, Pennsylvania, died on January 9, 1920.

News from Globe, Arizona, indicates some 250 men are employed in producing Arizona crude asbestos from deposits in the southeast Sierra Ancha Mountains some 40 miles northwest of Globe. Extent of deposits in this area has been demonstrated by Charles F. Sloane who has developed most of the deposits and has lately started developement of another property.

WANTED

One English-speaking mechanical engineer experienced in asbestos-cement sheet and pressure pipe production — as a production supervisor for one, two or more years in our plant adjoining a 1,000-ton cement plant in Thailand.

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



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Whiteness ■ Low Iron Content

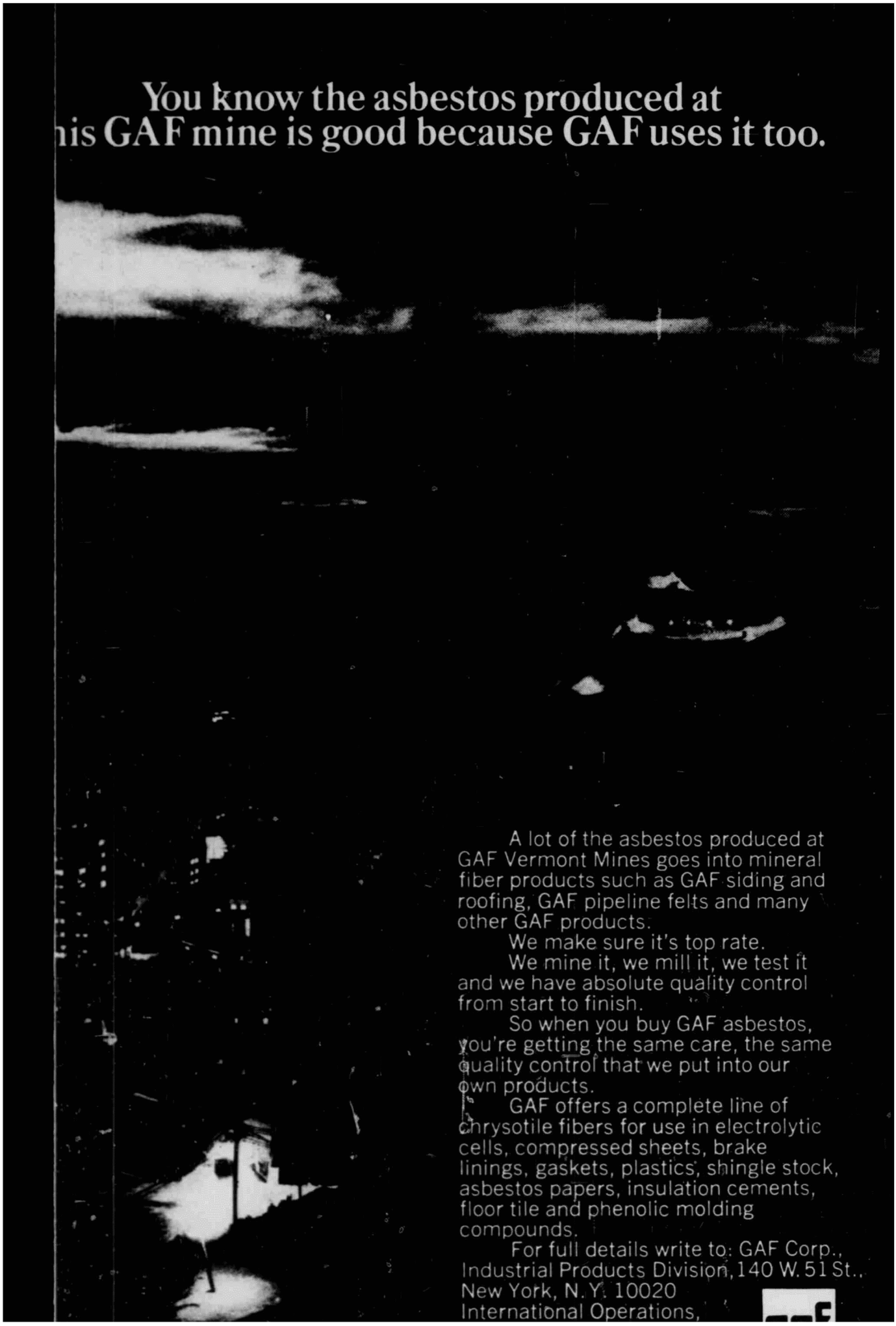
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A lot of the asbestos produced at GAF Vermont Mines goes into mineral fiber products such as GAF siding and roofing, GAF pipeline felts and many other GAF products.

We make sure it's top rate.

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

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

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

For full details write to: GAF Corp., Industrial Products Division, 140 W. 51 St., New York, N.Y. 10020
International Operations,

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