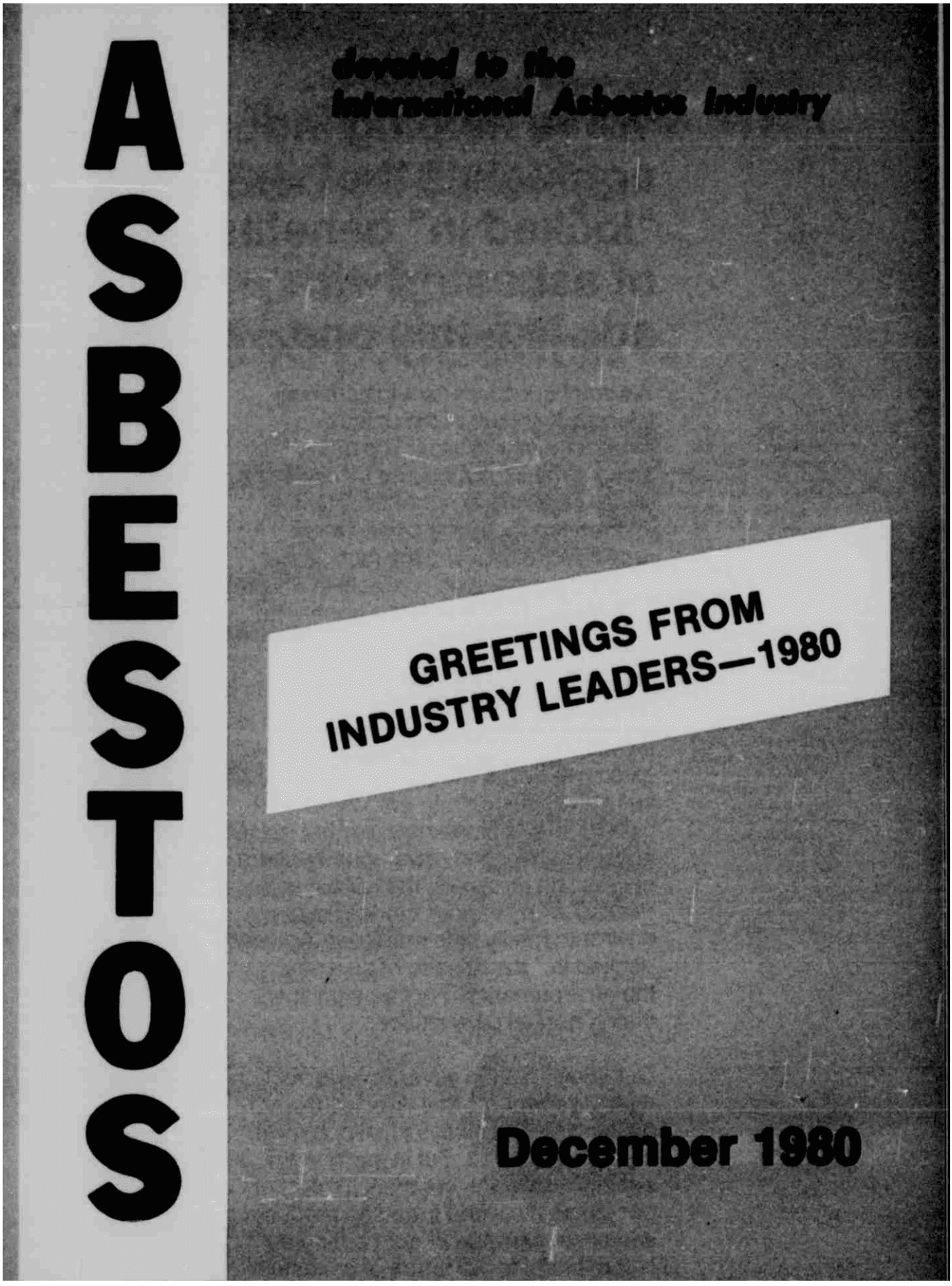

ASBESTOS
devoted to the International Asbestos Industry
GREETINGS FROM INDUSTRY LEADERS—1980
December 1980

We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

We want our customers to continue taking advantage of the unique properties of asbestos. Too often, their ability to do so is hindered by decisions based on emotion rather than factual information. So we're calmly and repeatedly explaining the facts about asbestos-containing products in a series of full page, four-color ads, appearing regularly in the industrial edition of *Business Week*.

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. And once "locked in," the release of asbestos into the environment will not be significant during normal product use.

Our investment in advertising is not nearly as large as that directed toward developing safer ways to ship, handle, and use asbestos. But in many ways, it's equally important. We think it's part of our job as the world's leading producer of asbestos. And part of our continuing commitment to the future of asbestos.

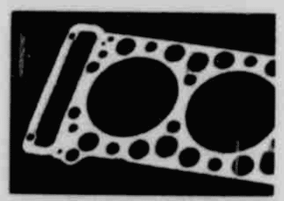
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Asbestos is not a problem when used properly.

It's locked-in to all of these products.

In thousands of finished products, asbestos serves an essential function that has not been duplicated on a cost performance basis. Like other naturally-occurring minerals, asbestos can be a potential health hazard when inhaled. However, with technological advances and established work practices, along with industry and Federal regulations, it can be safely processed, transported, and handled. In addition, there are virtually no hazards associated with the proper end use of products in which the asbestos fibers have been encapsulated or "locked-in" by environmentally safe binders. For this reason, we advocate the elimination of its use in friable products in which it cannot be safely bound. As the world's leading asbestos supplier, we are vitally concerned with its safe handling and application.

For more information, please write to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, Colorado 80217.



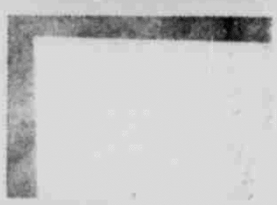
Gasketing materials made by blending asbestos with elastomeric binders are used in a variety of high temperature, high pressure applications ranging from automotive gaskets to industrial steam lines.



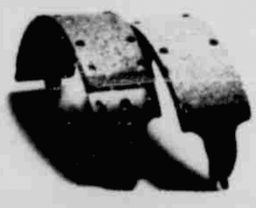
Smooth bore, corrosion resistant pipes utilize asbestos locked into cement to improve water and waste-handling systems throughout the world.



Encapsulated in with varying amounts of polymers, elastomers, or asphalt, asbestos is a major constituent in specialty papers used in commercial roofing felt, pipeline wrapping felt, sheet-goods flooring, and gasketing.



Asbestos is added to cement to form these lightweight, durable, fire resistant building panels.

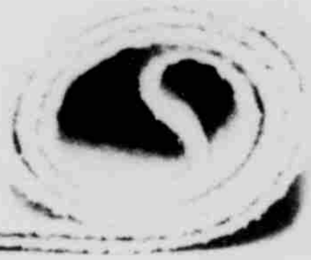


Because of its thermal resistance, reinforcing properties, and contribution to frictional properties, asbestos plays a major role in truck and automotive brake linings. In this application, the fibers are locked-in with phenolic resin binders.

JM Johns-Manville

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The Asbestos-cement machine Clothing



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ASBESTOS

VOLUME 62 **DECEMBER 1980** **NUMBER 6**

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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GREETINGS FROM INDUSTRY LEADERS-1980

ASBESTOS CORPORATION LTD.

M. E. Taschereau, President & Chief Executive Officer

Following several years of satisfactory performance, it is now apparent that most asbestos fibre producers will be reporting substantially lower results in 1980. The U.S. recession, reduced construction activity in Western Europe and the increased foreign exchange difficulties of several developing countries have combined to depress demand for fibre.

In addition to the economic cycles, the extent and severity of which are difficult to forecast, our Industry is faced with the continuing negative publicity concerning health aspects associated with asbestos. Sufficient medical evidence is now available to show that, to all intents and purposes, a 2-fibre per cc level of exposure to asbestos is safe. This evidence is, albeit slowly, becoming known and accepted by regulatory authorities through the cooperative efforts of Industry and a growing portion of the labour and medical communities. We are convinced that common sense will prevail allowing the Asbestos Industry to continue to grow and provide the advantages of our products to society.

We, at ACL, wish to extend to all our friends in the Asbestos Industry our very best wishes for a Happy and Prosperous New Year.

BBA GROUP LTD.

D. M. Pearson, Chairman

1980 has been the most difficult trading period we have seen for many years. The worldwide recession in the vehicle industry, together with generally unfavorable economic conditions in the United Kingdom, has had a severe effect on the trading results from our business in friction materials and asbestos textiles.

Prospects for 1981 are difficult to assess, but there should be some improvement.

From BBA Group Ltd., I wish all our friends in the Industry a Happy and more Prosperous New Year.

CALAVERAS ASBESTOS LTD.

Gordon A. Coates, President

World economic conditions, and particularly the slowdown in the United States, impacted heavily on the construction industry which, in turn, was felt by mills and pipe/sheet producers. We at Calaveras enter 1981 with cautious optimism, believing that business activity will be in an upturn.

Our mine expansion program is in its fifteenth month, and on

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albany canada

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schedule. We still anticipate reaching new ore reserves during the first quarter of 1982.

As I have commented for the last few years, we all continue to face the problem of the "regulator." Our Industry has a mature, realistic conscience and our people do work under healthful conditions. This story must be conveyed to the regulators.

Best wishes to all!

CAPCO PIPE COMPANY, INC.

Warren T. Whitley, President

Capco Pipe Company, Inc., (formerly Cement Asbestos Products Company) wishes for each and everyone in our Industry and ASBESTOS Magazine a healthy and prosperous 1981.

The challenge of the '80's was aptly stated for the first year of the new decade. Our Industry was challenged on all fronts—government and economy—competitive products, public emotion, and the press. Each confrontation added strength to the Industry position, but we now feel that the challenges to our Industry peaked in 1980. We all hope that beginning 1981, asbestos-cement pipe will again rise to the fore and continue to make progress as we had prior to 1979-1980.

CAPE INDUSTRIES LTD.

G. A. Higham, Chairman

I am pleased to have this opportunity of sending best wishes for the New Year to all our friends in the Industry.

The major change in our business in 1980 was the purchase of the Newalls Insulation business from Turner & Newall Ltd. This gives our company a leading position in this field which grows in importance as the cost of energy increases.

It may also not be without significance that many of the processes for the manufacture of asbestos products are also low energy users. Competitive products will need to show similar economy.

Business prospects in the U.K. are currently uncertain both as to the depth and duration of the current recession.

We look forward, however, to continuing good relationships with our suppliers and customers in 1981.

CAREY CANADA INC.

M. Prus, President & General Manager

Carey Canada is pleased to have this opportunity again to express our greetings and best wishes to the Asbestos Industry.

The Asbestos World today is facing many major challenges such as inflation, recession and decreasing markets. We at Carey

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Canada are fighting back. We have ongoing programs to reduce costs, to make a major shift in product mix and to introduce new grades to meet various nuances of market demands. When this present period is behind us, Carey Canada will emerge stronger than ever.

Happy New Year to one and all.

CERTAINTEED CORPORATION

Fred Timpe, President, Pipe and Plastics Group

CertainTeed Corporation wishes the Asbestos Industry a prosperous and mutually rewarding New Year. 1980 has seen some rearrangement of the opportunities and competition for A/C pipe. Despite any rumors to the contrary, it is CertainTeed's intention to continue to produce and market A/C water and sewer pipe in the Northeast, for just as long as those communities continue to take advantage of its outstanding cost effectiveness.

It is that very cost effectiveness that forms the basis for our high confidence in the asbestos-cement pipe business during the coming years, and our expectation of considerable improvement along with the general economy in 1981.

It is our hope that the still unresolved issue of the health effects of making and using A/C pipe will graduate, with a new administration, from a political to the scientific and technical arena where it belongs. We are confident that as an Industry we can lay the health issue to rest during 1981, giving this new regulatory climate and the continued cooperative effort of our Industry.

We are looking forward, in 1981 and beyond, to the continuation and expansion of this highly beneficial Industry.

FRENZELIT WERKE

Dr. W. Wagner, Chairman

It is my pleasure to extend to all our friends and customers our best wishes for a Happy and Prosperous New Year.

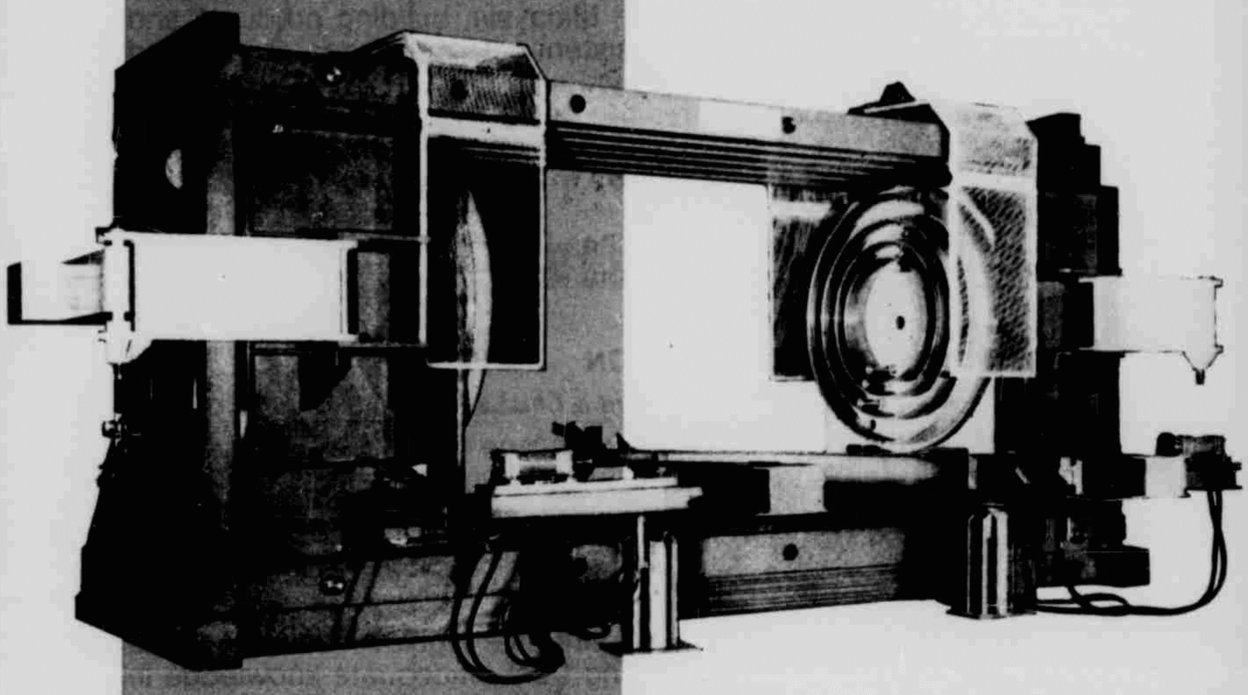
Despite certain problems regarding the handling of asbestos, we are able to report very good sales of our special asbestos products. 1980 has once again meant a big step forward for us and we would, therefore, like to take this opportunity to again express our thanks to all those who contributed towards this success.

Asbestos products represent an important branch of industry and, given proper processing and handling, there is no reason why progress in this field should not continue in the future.

In this respect we have made investments on a scale well beyond what was strictly necessary, by installing extractor systems and soundproofing, by considerably enlarging the production shops and in other similar ways.

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JAMES HARDIE INDUSTRIES LTD.

John B. Reid, Chairman

It is a pleasure to send once again to our friends and associates in the Industry, Season's Greetings and hopes for prosperity in the year ahead.

Markets in Australia have shown some improvement in consumption of building products over the previous year, with variations between States, those with development in natural resources, particularly energy, tending to do better. Pipe business, for similar reasons, is also more active in recent years, aided by our ability to supply pipes up to 750 mm diameter. The outlook continues to be more optimistic than for some time in all sectors of our business. In Indonesia and Malaysia, building products and pipes are doing very well, consistent with the strong growth and health in the domestic economy.

Environmental challenges are being met and continued effort is being made to ensure improved conditions in the factory or the customer's workplace, to ensure that standards are as good as possible.

The first year of the decade has been a good one and we anticipate more favorable years ahead.

JOHNS-MANVILLE CORPORATION

J. A. McKinney, Chairman of the Board & Chief Executive Officer

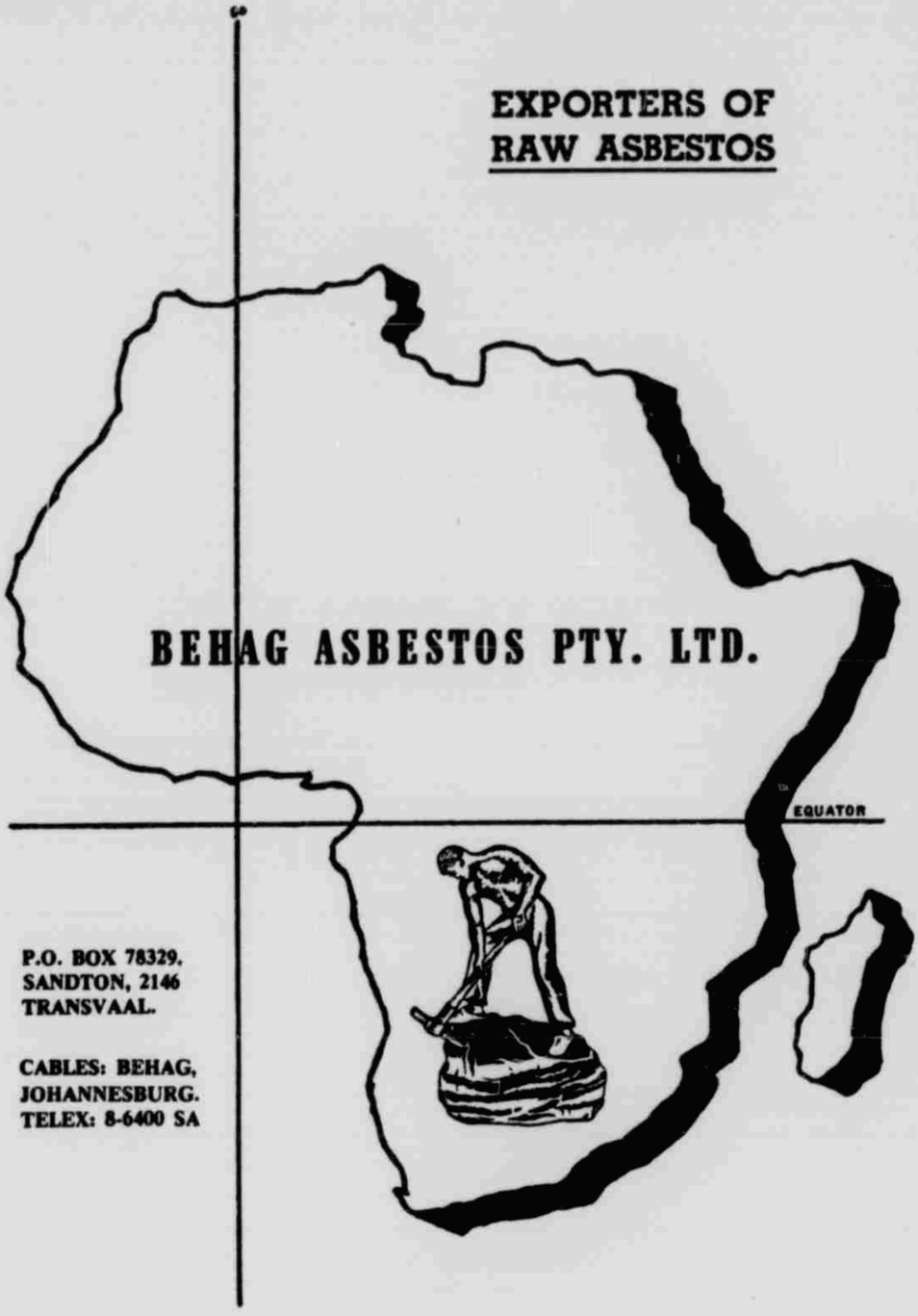
In years past our Christmas message was a time to reflect on past successes and on the future of our Industry. This year I believe we must dwell more on the years ahead, specifically addressing the heightening crisis faced by the Asbestos Industry and the effort we all must make to return it to the respectable level it rightly deserves.

In the United States overly restrictive regulations may be eminent because of injuries resulting from inadequate knowledge in past years about the full dangers of asbestos. Plaintiffs, attorneys and, unhappily now in a growing trend government officials, have made wholly unsupported, rash statements which are then printed as fact by the media. The destructive impact on the U.S. asbestos industry of this "judgment and regulation by headline" is well known.

On the positive side, the problem of compensation of victims of asbestos-related disease has been recognized by responsible legislators with the introduction of S.2847, the Asbestos Health Hazards Compensation Act, by Senator Gary Hart. The purpose of S.2847 is "to provide prompt, adequate, exclusive, and equitable

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compensation for occupational diseases or death resulting from exposure to asbestos." We strongly support the principles incorporated in Senator Hart's bill.

The fact that excessive exposure to asbestos in the past has resulted in human disease is well known. Guided by this knowledge, everyone of us must assume the responsibility to operate in a manner that will not generate any future asbestos-related disease. The penalty for the Asbestos Industry not facing our responsibility will be the demise of the Industry worldwide.

We urge everyone involved in the Asbestos Industry around the world to support the activities of the national and international asbestos associations and to set the highest standards for healthy and safe working conditions in their plants. If we cooperate together, take positive actions, and demand that fact not fiction be used to judge asbestos, we all can look to a bright future for the Industry.

We at Johns-Manville extend a sincere "thank you" to our customers and best wishes for a Prosperous New Year to all in the Industry.

LAC D'AMIANTE DU QUEBEC, LTEE

Michael J. Messel, President

It is a pleasure to extend through ASBESTOS our warmest best wishes for 1981 to our customers and friends in the Asbestos Industry.

The past year has been a difficult one for our Industry due to economic problems in most countries, together with the controversy and differences of opinion that still continue to plague us on health and environmental issues. I think the facts are now well known that asbestos is a very useful mineral to mankind and can be used safely. The emphasis should now be placed on making better use of existing asbestos-containing products and development of new ones that will help to save lives and contribute further to our industrial development.

Best wishes to all for a Happy and Prosperous New Year.

NICOLET, INC.

John J. Finnegan, President

Many changes have taken place at Nicolet during 1980; the company closed its Norristown Plant and the parent company was sold. The new ownership has indicated the desire to remain in the Asbestos Industry. We are, however, continuing in our efforts to develop non-asbestos sheet packing, millboard and monolithic products for sale to those companies that now forbid the use of

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ispra – *Special machines for asbestos*



"BAG BREAKER" = It empties any bag of asbestos

= Capacity : 200 bags /hour

= Residual asbestos in the bag : less than 1 g /bag

= Dust in the air : less than 0,1 f/cm^3

ispra s.p.a.

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20037 PADERNO DUGNANO (Mi) ITALY
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TELEX 330113 ISPRA

asbestos in such products.

We look forward to a Prosperous New Year and wish all of our friends in the Asbestos Industry a Happy and Prosperous New Year!

SOUTHERN TEXTILE CORPORATION

E. C. Bratt, President

It is once again a pleasure to send, through the courtesy of ASBESTOS, our sincere wishes for a Joyous Holiday Season and for a Happy Prosperous Year in 1981 to all our friends in the Industry.

Southern Textile Corporation continues to offer both asbestos and nonasbestos products to the trade. Asbestos remains surprisingly strong but for those who for various reasons cannot use asbestos, Southern offers glass fabrics, rope, yarn and braided products augmented now by a complete line of GOLDENGARD products featuring aramid fibers in a variety of blends.

We are looking forward to a good year in 1981, one with real growth.

SUPRADUR MANUFACTURING CORPORATION

K. Fred Netter, President

1980 was a difficult year for most of us in the Asbestos Industry—the double-edged sword of a soft economy and government restrictions has taken its toll. Indications are, however, that both of these afflictions will abate in the coming year.

We, at Supradur, while having diversified over the last several years, are still heavily committed to the A/C siding and roofing business. 1981 should represent an improvement over 1980 and in that belief, we lift our glasses in a toast to all our friends in the Industry.

Season's Greetings to all.

TURNER & NEWALL LTD.

Stephen Gibbs, Chairman

We begin 1981 in the midst of world recession, which affects the market for asbestos fibre as it does for other industrial raw materials. At the same time, as the regulations we have to observe are tightened, competitive materials continue to make inroads into some of the traditional markets served by asbestos products.

Nevertheless, I am confident in the world future for asbestos. The pace at which legislative changes in Europe are being introduced is slow enough for manufacturers and users of asbestos

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products to adapt their processes to them and in most cases to anticipate them. Furthermore, the combination of technical characteristics possessed by asbestos fibre remains difficult to match.

Turner & Newall has successfully reintegrated its mining interests in Zimbabwe with the Group's operations. We have sold our Canadian mining interests, though we still expect to use Canadian fibre in our worldwide operations. In the U.K. and elsewhere we have extensive investment programmes for asbestos mining and manufacture.

We wish all our friends in the Industry good fortune for 1981.

UNION CARBIDE CORPORATION

F. C. Kroft, Jr., President, Metals Division

Season's Greetings to all of our friends and associates in the Asbestos Industry. I especially appreciate the opportunity to say "thank you" to our customers, who have enabled our "Calidria" asbestos business to experience another good sales year.

Our plant has been operating at near capacity for most of the year. Union Carbide looks forward to similar operation in 1981, although prices will reflect a significant increase in plant costs due to the energy situation in California. Our unique wet process for ore beneficiation, which enables the production of pelletized asbestos and its attendant benefits, is very energy intensive.

Best wishes to all for a Prosperous 1981!

WOODSREEF MINES LTD.

Harry H. Robinson, Chairman & Managing Director

Once again we are pleased to send greetings to our many friends around the world.

1980 has been a very mixed year for the Industry, with strong growth in demand in most countries in Asia and reduced demand in Europe and North America. Woodsreef sees this pattern continuing into 1981.

Significant progress continues to be made on the development of Woodsreef's wet milling process. Asbestos cement grades equivalent to 5R and 4T have been produced using a small semi-continuous pilot plant.

NEXT ISSUE—THE ASBESTOS MINING REVIEW, 1980

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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

— Complete plants with high capacity for corrugated and flat sheets, flat pressed and coloured sheets.

— Production of special sheets up to 9 mt length.

— Auxiliary machines for special sheet profiles.

— Complete plants with high production for pressure and sewage pipes.

— Special plants for preparation of wet and dry Asbestos.

— Machines for finishing pipes.

— Complete projects, know-how, technical assistance for sheet and pipe lines.

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15033 CASALE MONFERRATO (Italia)

INTERNATIONAL A-C REVIEW/ 25 YEARS

With issue No. 100, the *International Asbestos-Cement Review* completed its 25th volume of publication. It began in 1955 when art historian and musicologist Dr. H. Curjel brought together Editions Girsberger and a young architect engaged in the production of technical literature for the Swiss asbestos-cement industry. Following agreement by Dr. Girsberger, eminent publisher, and others that a publication should be produced to extoll the virtues of asbestos-cement, Dr. Girsberger and Florian F. Adler, the young architect who was and is Editor of the Review, conceived that the publication should be quarterly and multi-lingual and that it would best serve the sales and marketing efforts of the asbestos-cement industry by demonstrating exemplary applications of a-c products. Mr. Adler was to have freedom in selecting authors and the buildings to be illustrated and was not to be influenced by manufaturers or architects. In addition, no company names or trademarks were to be mentioned. Despite recessions and the asbestos/health issue, sold circulation continues to exceed 60,000 copies per quarter as asbestos-cement-producing companies in 60 countries enter subscriptions for their clients.

Mr. Adler's small editorial team has included the German architect Olinde Riege since 1957 and a Swiss building technician, Alfred Oeschger, since 1965. In addition, the staff is supported by architect correspondents in several countries, technical departments in the a-c industry, free-lance architectural photographers, and others. Dr. Girsberger retired in 1970 and a new publishing partnership was established with Karl Kramer Verlag/Stuttgart. Co-Directors are Karl H. Kramer and Mr. Adler. The Review is printed in English, French and German, with summaries in Italian.

With the phenomenal industrial development in Latin America, Spanish and Portuguese became important enough markets to merit a separate edition and since the beginning of 1979 the publication is also available in a Spanish/English/Portuguese edition under the title *Ac-Fc La Revista do Fibrocimento/The Fibrecement Review/A Revista do Fibrocemento.*

In 1971, a new, tri-lingual, bi-annual publication was launched, experimentally, entitled *AC Underground/Canalisation/Tiefbau.* Its reception by civil engineers, water works engineers and public authorities has been positive and ten issues have thus far been published, under the editorship of Yvonne Greuter, a qualified architect with strong engineering interests. Circulation has already reached 16,000 copies per issue.

ASBESTOS Magazine congratulates Mr. Adler and his staff for 25 years of fine service to the Industry.

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PILOT

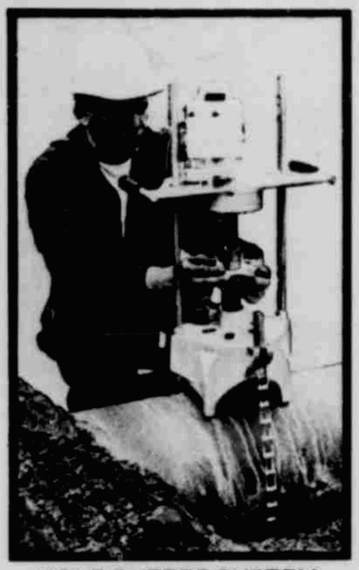
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PIPE CUTTERS
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THE COOL-A-ZONE FOR HOT SPOTS

A new zone cooling unit, called Cool-A-Zone, which reduces air temperature through water evaporation as much as 28°F in high heat areas has been introduced by *Molding Systems, Inc.*, of Minneapolis, Minnesota, appointed exclusive representative by *Mellor Bromley Ltd.*, manufacturer of the unit. Other models are suitable for increasing humidity or reducing static electricity. In operation, the unit changes jet-fed water into a fine mist which is quickly absorbed by hot, dry air in the zone where the unit is positioned. The result of adding moisture to the air is evaporative cooling which considerably lowers the location's temperature to enhance personnel comfort. Also, the increase in zone humidity tends to abate dust and other fine particulate matter which may be present in the atmosphere. Installation of the 80-pound apparatus requires only a ceiling hanger or wall bracket support. The cooling unit is equipped with lifetime bearings and designed to operate on a 230 or 450 volt power supply.

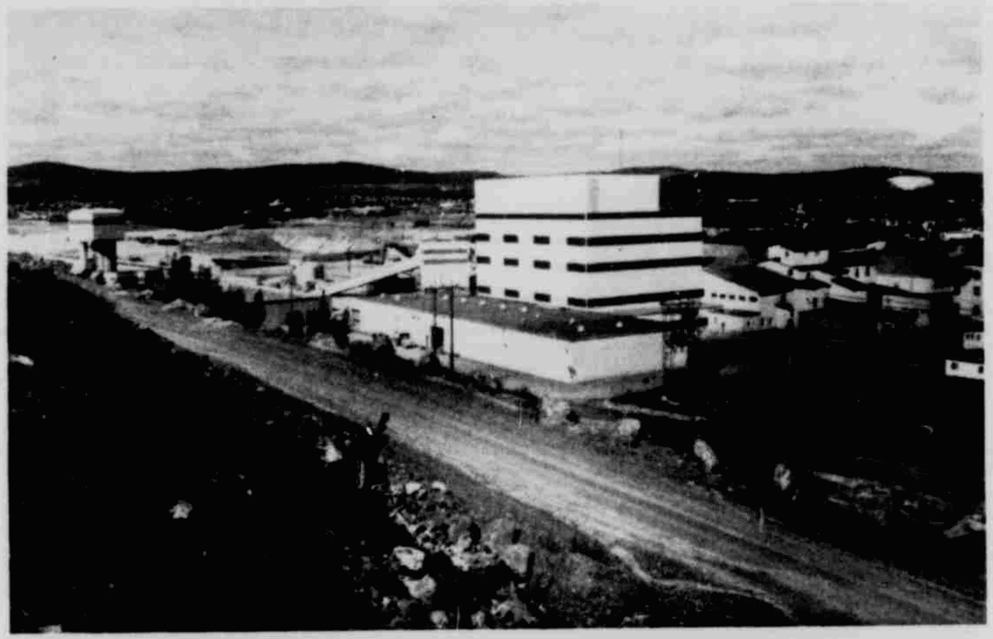
TECO ASBESTOS BAG OPENER

Taunton Engineering Company, Inc., Taunton, Massachusetts, reports it has perfected a new model TECO automatic bag opener which has been used successfully to open loosely-packed and pressure-packed bags containing asbestos. The unit, which is capable of handling four to six 100-pound bags per minute, is actually a heavy-duty version of the standard RTS-100, modified to include a 2-horsepower, slow-speed compression crushing roll which fractures the mass of fiber into smaller pieces after the bag has been slit. The fiber and bag are then separated in a rotary screen with suitable screen size for removing the fiber from the bag. The bag can be polyfilm, polywoven or paper. Special lifters in the rotating screen drum, combined with speed and inclination of the drum, properly separate the fiber from the bag and provide a primary fluffing action for the fiber. The asbestos is then gathered in the collecting hopper below the unit into an optional collecting conveyor and then transported to the process point. The unit is vented through an appropriate dust collector, either existing or built-in, which returns the dust back into the machine. The empty bags are then discharged out of the end of the rotating separator and fall either to TECO's 30 x 30 bag compactor/disposer or some other disposal method. The company advises the process is clean, occupationally safe and environmentally dust-free.

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BELL
ASBESTOS MINES, LTD.

Producer of all grades of chrysotile asbestos fibres.



We are undertaking a second century of continued service to the asbestos manufacturing industry.

BELL ASBESTOS MINES, LTD.
THETFORD MINES, QUEBEC, CANADA
P.O. BOX 99 - TEL.. (418) 335-9166
INT. TX. NO. 05-834512 - CABLE: BELLASBEST

ESSEX SEALANT ENCAPSULATES

According to *Essex Chemical Corporation,* Clifton, New Jersey, the children in two schools in Franklin, Ohio, no longer will be exposed to asbestos. The asbestos is still in the schools, serving as insulation and fireproofing, but it now wears a new airtight overcoat called Aqualoid that prevents the fibers from escaping into the air the children breathe. The Essex material is a sealant which is sprayed on as a liquid, penetrating the asbestos and hardening into a tough surface which locks the fibers in place. During the encapsulation process the room is completely sealed in plastic sheeting. Workers wear disposable EPA-approved clothing and masks which ultimately are packed in airtight drums and buried in approved landfills. Aqualoid is one of the sealants that an independent research laboratory, working for the U.S. Environmental Protection Agency, recently tested and approved as asbestos encapsulators. Officials of the Franklin City School District had identified asbestos in five of the city's ten schools. When the list of effective sealants became available, their contractor selected Aqualoid for four reasons: its hardened surface would be white and smooth, eliminating the need for painting and making it easy to maintain and keep clean; it had a Class A fire rating; it generated little smoke when burned; and it was water-based, hence environmentally acceptable. The sealant is suitable where the asbestos is in good condition and not subject to physical abuse which could damage the product.

CABLE COATING PASSES ALL TESTS

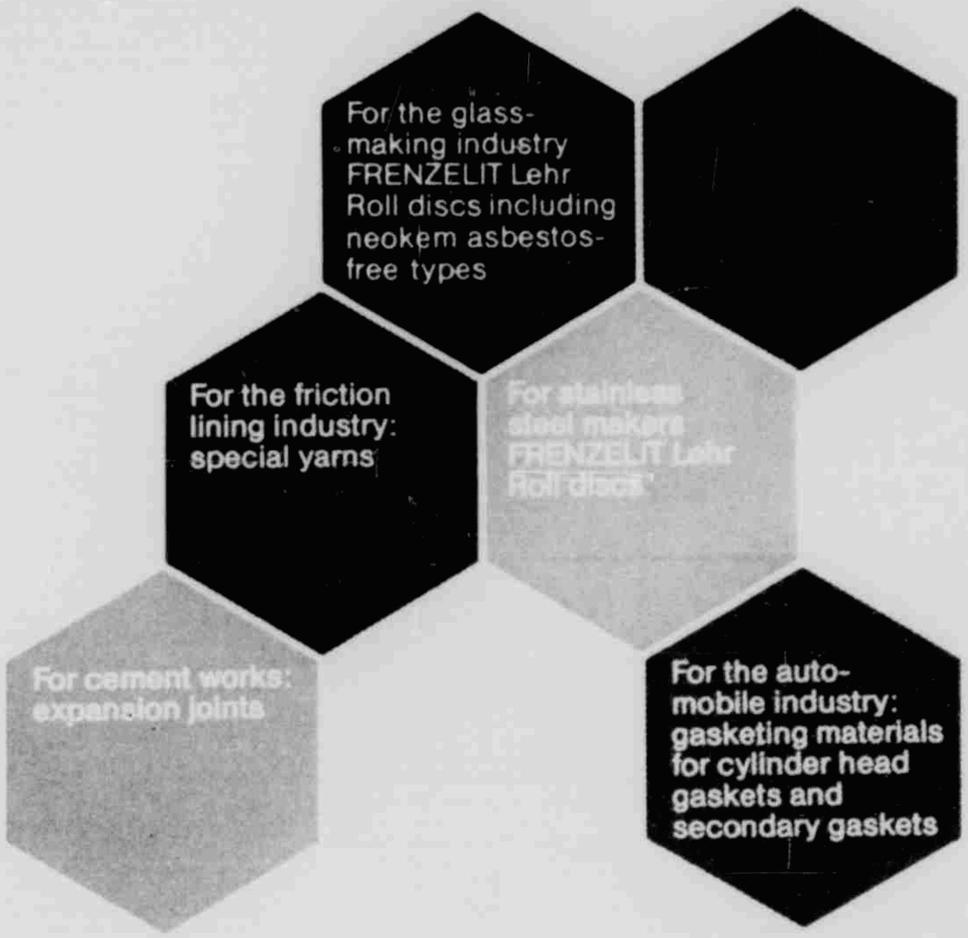
CC-No. 2B is a product of *American Coatings Corporation,* Chicago, Illinois, which is described as an asbestos-free fire protection material that has passed all EPA requirements for asbestos encapsulation and all tests by Battelle Columbus Laboratories, Factory Mutual Research and United States Testing Company, Inc. The coating forms a complete and durable encapsulation that envelops the asbestos fiber matrix, eliminates fallout into the building environment and protects against contact damage. It eliminates fiber dispersal by adhering to the fibrous substrate with sufficient penetration to prevent separation of the sealant from the sprayed asbestos material. The coating retains sufficient flexibility to accommodate atmospheric changes and settling of the structure over time and possesses high flame retardant characteristics and a low toxic fume and smoke emission rating. It is highly resistant to chemicals, oils, heat, water and abrasives.

ASBESTOS is pleased to welcome the following new advertiser—
HEINRICH OSTHOFF-PETRASCH K.G., Hamburg, Germany (See Page 45)

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Frenzelit **Products for many branches of industry**

Did you know that there are also FRENZELIT products for the following applications?

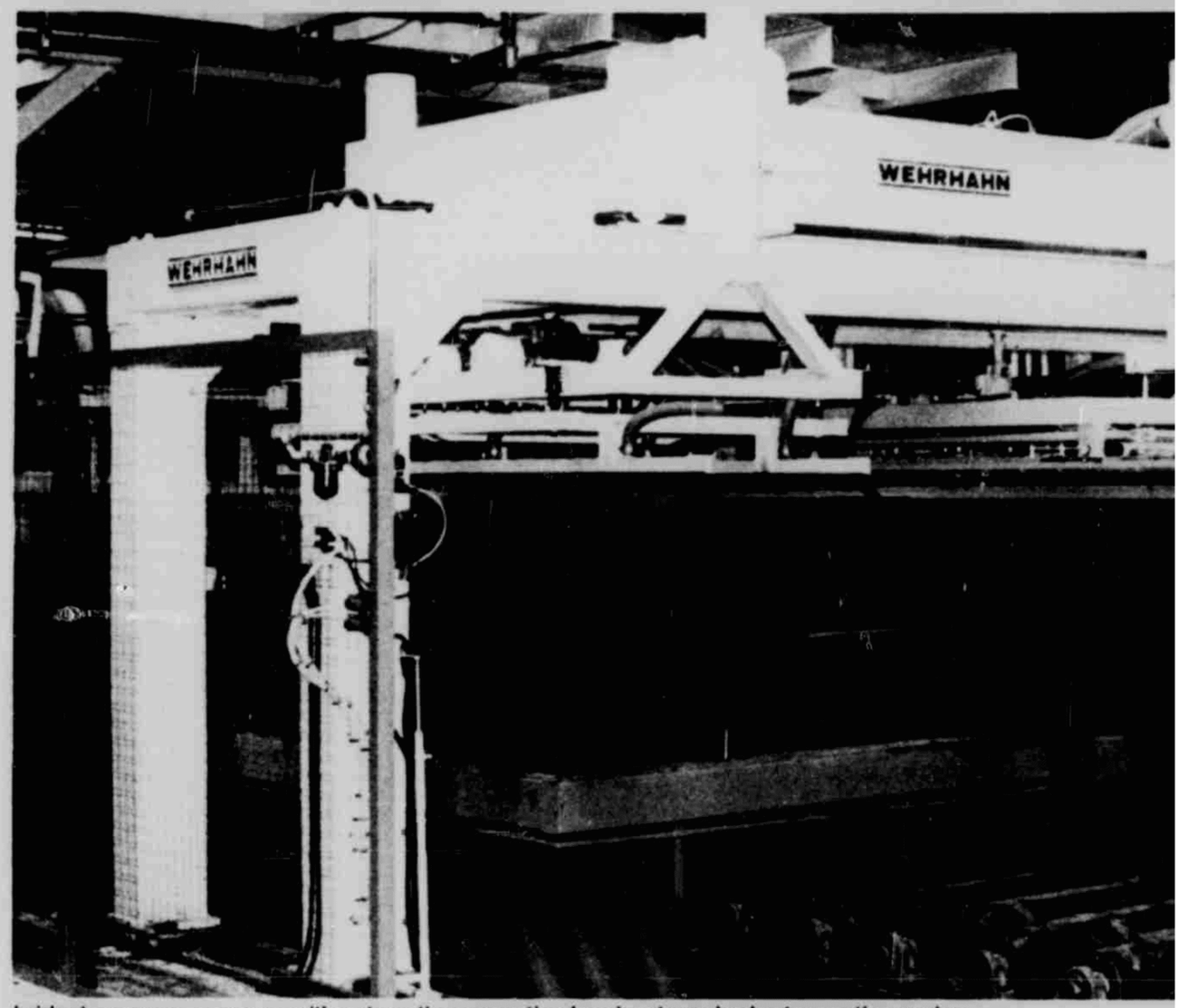


This is only a selection of many products, as you will discover when you get to know us better.

FRENZELIT Werke GmbH & Co KG
P.O.B. 1140 · D-8582 Bad Berneck · Phone: 09273-721
Telex: 0642872

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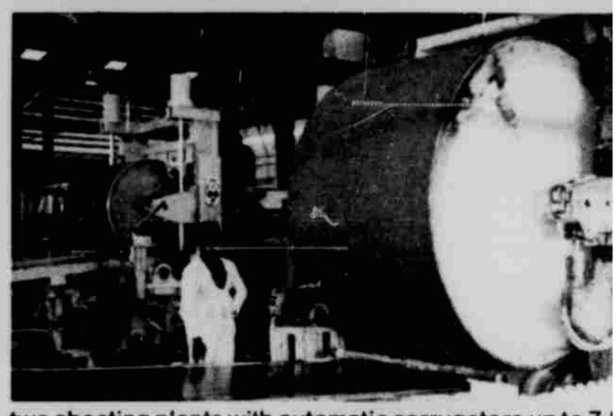
WEHRH



bridgetype cross conveyor with automatic corrugation head; extremely short operation cycles



dustfree asbestos bag-opening machine



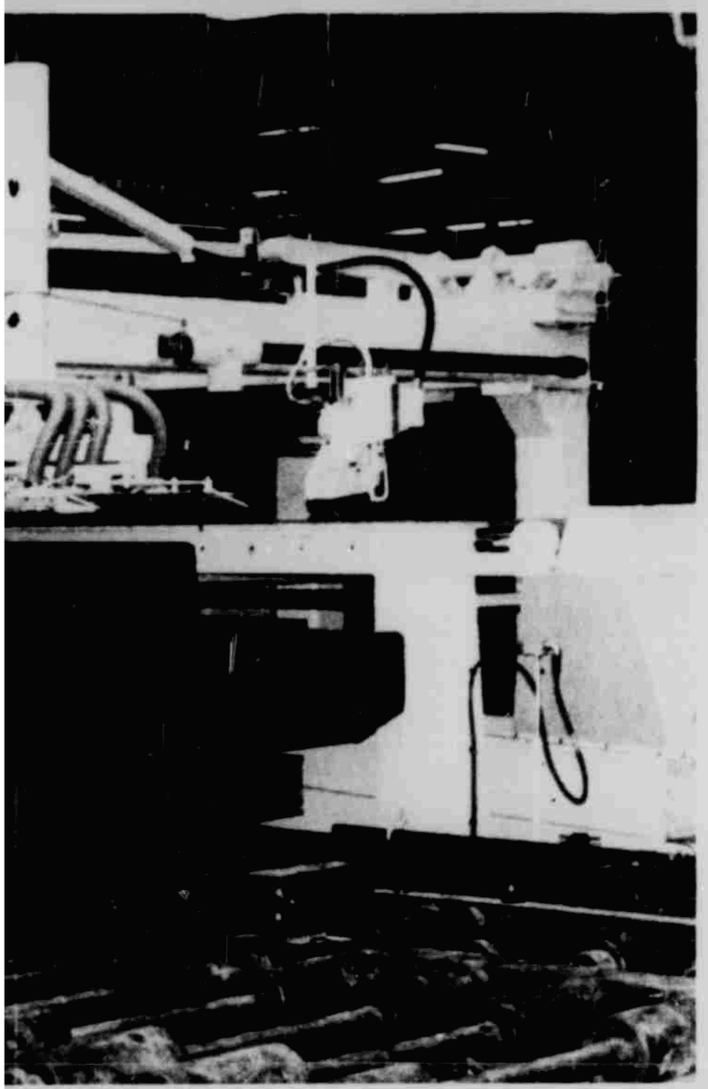
two sheeting plants with automatic corrugators up to 7,

...the first results will show yo

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AHN

Complete plants for the production of asbestos cement pipes and asbestos cement sheets



Many fully-automatic WEHRHAHN-ac-plants produce sheets and pipes successfully all over the world.

WEHRHAHN has experience for more than a man's age to construct economical ac-machines for the future.

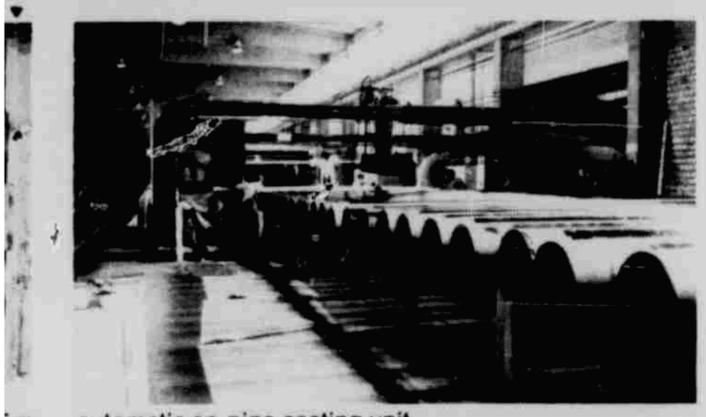
WEHRHAHN'S dynamic specialists assist you every-where.

It's their job!
Why not contact them?

Ask for up-to-date quotations too!

Choose:

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5 m automatic ac-pipe coating unit

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MASCHINENFABRIKEN

P.O.Box 209
D-2870 Delmenhorst 1, Germany
Tel. 04221/14051
Telex 0249284
Cable WEHRHAHN
DELMENHORST/W.-GERMANY

...u, why you chose WEHRHAHN

IMPORTS INTO THE UNITED STATES

From U.S. Bureau of the Census

AUGUST 1980

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	192	$ 111,360
Crocidolite, South Africa	s.tons	523	274,017
Chrysotile Spinning Fibers, Canada	s.tons	351	223,620
Sweden	s.tons	23	2,520
Chrysotile, Other, Canada	s.tons	18,948	4,119,786
Mexico	s.tons	3	502
Sweden	s.tons	46	5,040
Other Crudes & Fibers, Canada	s.tons	963	331,579
Germany, Fed. Rep.	s.tons	1	327
Rhodesia	s.tons	39	36,914
South Africa	s.tons	160	93,600
		21,249	$ 5,199,265

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	576,988	$ 982,520
A-C pipes, tubes & fittings	Lb	528,174	88,253
Other asbestos-cement articles	Lb	3,274,788	656,617
Other asbestos articles		..	574,703
			$ 2,302,093

JANUARY-AUGUST 1980

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	307	$ 263,262
Crocidolite, Canada	s.tons	57	11,672
South Africa	s.tons	8,278	5,177,960
Chrysotile Crudes, Rhodesia	s.tons	22	29,592
Chrysotile Spinning Fibers, Canada	s.tons	4,205	3,132,360
Rhodesia	s.tons	542	515,325
South Africa	s.tons	298	253,455
Sweden	s.tons	23	2,520
Chrysotile, Other, Brazil	s.tons	23	2,421
Canada	s.tons	220,392	51,187,686
Germany, Fed. Rep.	s.tons	21	2,368
Mexico	s.tons	30	1,285
Chrysotile, Other, Rhodesia	s.tons	20	20,703
South Africa	s.tons	758	432,262
Sweden	s.tons	46	5,040
Yemen	s.tons	46	12,454
Other Crudes & Fibers, Canada	s.tons	7,771	2,105,638
Germany, Fed. Rep.	s.tons	22	28,607
India	s.tons	46	13,890
Japan	s.tons	29	9,212
Mexico	s.tons	2	3,500
Rhodesia	s.tons	231	234,670
South Africa	s.tons	1,452	913,265
United Kingdom	s.tons	1	712
		244,622	$64,359,859

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U.S. IMPORTS—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	5,063,556	$ 8,448,299
A-C pipes, tubes & fittings	Lb	5,662,891	824,455
Other asbestos-cement articles	Lb	43,324,273	7,974,920
Other asbestos articles			4,165,348
			$21,413,022

January-August 1979: U.S. imports of unmanufactured asbestos totaled 397,335 short tons, valued at $95,477,957; imports of manufactured asbestos products were valued at $21,138,390.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

AUGUST 1980

UNMANUFACTURED ASBESTOS:

Asbestos crudes, fibers & stucco	s.tons	3,640	$ 1,576,047
Asbestos sand & refuse	s.tons	540	111,605
		4,180	$ 1,687,652

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	351,611	$ 745,487
Asbestos-Cement shingles & clapboard	Lb	477,030	165,464
Other asbestos-cement articles	Lb	3,109,224	1,093,299
Asbestos gaskets	Lb	24,207	119,651
Asbestos packings & seals	Lb	222,397	1,130,325
Asbestos insulation			1,006,772
Brake linings & disc brake pads			3,505,522
Clutch facings & linings			680,643
Other asbestos articles			1,292,341
			$ 9,739,504

JANUARY-AUGUST 1980

UNMANUFACTURED ASBESTOS:

Asbestos crudes, fibers & stucco	s.tons	25,464	$11,080,677
Asbestos sand & refuse	s.tons	9,128	2,728,526
		34,592	$13,809,203

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	3,688,072	$ 5,642,000
Asbestos-Cement shingles & clapboard	Lb	7,381,893	1,846,178
Other asbestos-cement articles	Lb	21,469,790	7,279,329
Asbestos gaskets	Lb	671,450	2,307,325
Asbestos packings & seals	Lb	3,149,224	10,504,307
Asbestos insulation			4,914,961
Brake linings & disc brake pads			34,500,031
Clutch facings & linings			7,263,598
Other asbestos articles			18,011,085
			$92,268,814

January-August 1979: U.S. exports of unmanufactured asbestos reached 26,488 short tons, valued at $9,536,424; exports of manufactured asbestos products were valued at $93,695,659.

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EXPORTS FROM CANADA

From: Statistics Canada

AUGUST 1980

Short tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	285	9,847	10,277
Eastern Europe	..	58	1,197	99
Middle East	..	..	6,084	7
Africa	..	..	5,931	2,413
Asia	..	348	11,602	10,229
Oceania	..	..	2,169	39
So. & Cen. America & Antilles	..	144	12,207	5,489
United States	..	213	3,824	18,296
	..	1,048	52,861	46,849

The total amount of unmanufactured asbestos exported in *August 1980* was 100,758 short tons (91,408 metric tonnes), valued at C$48,083,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 181,000
Asbestos brake linings & facings	185,000
Asbestos-Cement building materials	1,328,000
Other basic asbestos products	760,000
	C$ 2,454,000

JANUARY-AUGUST 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	3,237	152,855	97,852
Eastern Europe	..	1,626	10,542	1,397
Middle East	..	100	9,640	342
Africa	..	21	20,590	9,863
Asia	..	2,456	84,133	90,137
Oceania	..	7	14,622	832
So. & Cen. America & Antilles	..	968	56,807	34,099
United States	—	2,690	46,509	192,113
	..	11,105	395,698	426,635

The total amount of unmanufactured asbestos exported in *January-August 1980* was 833,438 short tons (756,082 metric tonnes), valued at C$374,682,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 2,870,000
Asbestos brake linings & facings	2,003,000
Asbestos-Cement building materials	13,350,000
Other basic asbestos products	8,548,000
	C$24,771,000

January-August 1979: Canadian exports of unmanufactured asbestos totaled 1,037,762 short tons (941,434 metric tonnes), valued at C$400,672,000; exports of manufactured asbestos products were valued at C$21,904,000.

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VENETIAN FELT



THE SYNTHETIC AND NEEDLED FELT FOR YOUR SHEET AND PIPE MACHINES

1 immediate start-up

2 excellent water removal

3 stable and flat because of special heat-setting

. . . and last but not least, it has a long life.

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30175 VENEZIA-MARGHERA
ITALY

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Telex: 410088 FELTEX I

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CURRENT ASBESTOS PRICES

QUOTED FROM COMPANY PRICE LISTS

ASBESTOS CORPORATION

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

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

Grades 3Z to 3F spinning fiber	$1125 to $1750
Grades 4T to 4A asbestos cement fiber	846 to 1102
Grades 5R to 5D paper fiber	530 to 626
Grade 6D paper and shingle fiber	380
Grades 7TS to 7D shorts	122 to 233

CASSIAR RESOURCES

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

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

AAA	nonferrous spinning fiber; Canadian Group 3	$2000
AA	nonferrous spinning fiber; Canadian Group 3	1600
A	nonferrous spinning fiber; Canadian Group 3	1150
AC	nonferrous spinning fiber; Canadian Group 3	1050
AK	asbestos cement fiber; Canadian Group 4	975
AS	asbestos cement fiber; Canadian Group 4	900
AX	asbestos cement fiber; Canadian Group 4	825
AY	asbestos cement fiber; Canadian Group 5	575
AZ	asbestos cement fiber; Canadian Group 6	375

Specialty grades AK100, AS100, AX100 and AY120 are increased an additional $25.00 per ton above list price of base grade.

VERMONT

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

AS OF JULY 1, 1980

U.S. DOLLARS

Grade 3Z fiber	$ 996
Grade 4D fiber	760
Grade 4T fiber	661
Grade 5K fiber	512
Grade 5R fiber	434
Grade 6D waste	318
Grade 7D shorts	205
Grade 7M shorts	117
Grade 7R shorts	108
Hooker No. 1	1460
Hooker No. 2	840

CALIDRIA ASBESTOS

PER TON OF 2000 lbs., F.O.B. KING CITY, CALIFORNIA

AS OF JANUARY 2, 1980

U.S. DOLLARS

SG-103	pellets in bags	vinyl-asbestos floor tile	$ 122
SG-104	pellets in bulk	vinyl-asbestos floor tile	106
SG-130	open fiber in bags	general	170
SG-200	pellets in bags	rubber tile	160
SG-210	open fiber in bags	general	220
HPP	pellets in bags	rubber reinforcement	204
HPO	open fiber in bags	asphalt	220
RG-110	open fiber in bags	roofing	240
RG-144	open fiber in bags	resin viscosity control	560
RG-244	open fiber in bags	resin viscosity control	2500

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ASBESTOS PRICES—CONTINUED

CALAVERAS ASBESTOS

AS OF JANUARY 1, 1980

PER TON OF 2000 LBS., F.O.B. COPPEROPOLIS, CALIFORNIA

	U.S. DOLLARS
Grade 4T surface area 6000	$ 661
Grade 5R surface area 8000	434
Grade 6D surface area 8000	318
Grade 7R surface area 10000	115

ARIZONA

AS OF JULY 1, 1976

PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA

	U.S. DOLLARS
No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 nonferrous filtering—plastic	$ 750 to 840
Group No. 4 nonferrous filtering—plastic	750 to 840
Group No. 7 white shorts	100 to 200

BRAZIL

AS OF APRIL 1980

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

		BRAZILIAN CRUZEIRO $
Grades	4Z to 4K asbestos cement fiber	$17778 to $19952
Grades	5D to 5R asbestos cement fiber	7991 10935
Grade	7TF asbestos cement shorts	3157
Grade	8S shorts	1493

In Memoriam

MELVILLE P. CARSON

November 5, 1980

We regretfully announce the untimely passing away of *Melville P. Carson* after a brief illness at age 57.

Following a successful international career with the Canadian Foreign Service, Mr. Carson joined Asbestos Corporation Ltd. in 1961 and was later appointed to the position of Executive Vice President and Director.

"Mel" will be remembered as a prominent industry leader.

His numerous business friends and associates join together in extending to Mrs. Jane Carson and members of the family their warmest feelings of friendship and of deepest sympathy.

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BIRTHDAY GREETINGS to . . .

Claude A. Kennedy, Director of Manufacturing Engineering, Raybestos Industrial Products Company, North Charleston, South Carolina, January 15.

A. E. Hepper, a Non-Executive Director, Cape Industries Ltd., London, England, January 16.

James J. Tracy, Vice President & Treasurer, Johns-Manville Corporation, Denver, Colorado, January 17.

J. A. Van Sant, President & Chief Executive Officer, General Steel Industries, Inc., St. Louis, Missouri, January 20.

T. M. McKain, Managing Director, Cape Boards & Panels Ltd., Uxbridge, Middlesex, England, January 21.

J. B. Heron, Deputy Chairman & Chief Executive, TBA Industrial Products Ltd., Rochdale, Lancashire, England, January 22.

M. A. Wright, Managing Director, Cape Contracts Ltd., Barking, Essex, England, January 25.

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

J. Eugene Connor, National Sales Manager (U.S. & Canada), Asbestos Fibre Division, Johns-Manville Sales Corporation, Denver, Colorado, January 28.

Malcolm E. Schumann, Jr., General Manager, Aftermarket Division, Raybestos-Manhattan, Inc., Trumbull, Connecticut, January 28.

Fred D. Cousins, Assistant Plant Superintendent, Cassiar Mine, Cassiar Resources Ltd., Cassiar, British Columbia, January 30.

Gabriel Ferrucci, President & General Manager, International Division, Raybestos-Manhattan, Inc., Trumbull, Connecticut, February 1.

John W. Oughtred, Manager-Marketing, Cassiar Resources Ltd., Vancouver, British Columbia, February 2.

Gordon S. Dole, Quality Control Manager, Meredith Plant, Amatex Corporation, Meredith, New Hampshire, February 4.

Alton R. Morrill, Superintendent, Asbestos Plant, Johns-Manville Canada Inc., Asbestos, Quebec, February 5.

A. J. Austen, Chairman, Turners Engineering Products (Nigeria) Ltd., Kaduna; Turners Building Products (Arewa) Ltd., Kaduna; Turners Building Products (Emene) Ltd., Enuga, Nigeria, February 8.

James F. Parsons, Corporate Group Vice President, responsible for Ludlow-Saylor and Simplicity Engineering, General Steel Industries, Inc., St. Louis, Missouri, February 8.

R. H. Dent, a Non-Executive Director & former Chairman, Cape Industries Ltd., London, England, February 9.

R. A. Wells, Managing Director, Alternative Materials and Fibres Unit, Turner & Newall Ltd., Manchester, England, February 11.

S. Gibbs, Chairman, Turner & Newall Ltd., Manchester, England, February 12.

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ASBESTOS STOCK QUOTATIONS

CLOSE: NOVEMBER 18, 1980

Abitibi Asbestos	C$.94
Advocate Mines	C$1.33
Armstrong World Ind.	15½
Armstrong (pfd 3.75)	32½
Asarco	47¾
Asbestos Corporation	C$27.125
Bendix	55⅜
Bendix (pfd)	48¼
Carlisle	71⅛
Cassiar Resources	C$16.25
CertainTeed	14¼
Charter Conso.	pence 253
Colt Industries	50⅛
Colt Ind. (pfd 1.60)	35⅝
Colt Ind. (pfd 4.25)	107¼
Conwest-A	C$8.125
Conwest-B	C$6.875
GAF Corporation	11⅜
GAF (pfd 1.20)	14½
General Mining	US$24.125
Genstar	35½
Genstar (pfd 1.68)	31
Gulf & Western	17⅞
G&W (pfd 2.50)	46¼
G&W (pfd 3.87)	108½
G&W (pfd 5.75)	61
IC Industries	31⅛
IC Ind. (pfd 3.50)	46½
Johns-Manville	26
J-M (pfd 5.40)	45¼
Kennecott Copper	30⅛
Lear Siegler	38½
Lear Siegler (pfd 2.25)	93¾
McAdam Mining	C$.74
National Gypsum	22⅞
Pathfinder	C$.50
Porter, H. K. (pfd 5.50)	70⅛
Raybestos-Manhattan	28⅛
Rio Algom	C$38.25
Rio Algom (pfd 5.80)	C$56.00
Rio Algom (8.5% pfd)	C$4.30
St. Gobain	French Francs 143.90
Supradur	Bid 5½; Asked 6¼
Union Carbide	49⅞
United Asbestos	C$6.00
Walter, Jim	31
Walter, Jim (pfd 1)	9½
Walter, Jim (pfd 1.60)	33
*Transpacific Asbestos	C$.57

*Formerly: Woodsreef Minerals

MOTOR VEHICLE FACTORY SALES

JANUARY-SEPTEMBER 1980—Motor vehicle factory sales from plants in the *United States* totaled 5,849,959 during the first nine months of 1980, compared with 8,920,808 in the like period a year earlier. Breakdown for the latest three-quarter period was: 4,675,457 passenger cars (down 28%) and 1,174,502 trucks and buses (down 51.5%).

Factory sales from plants in *Canada* reached 982,630 motor vehicles to September 1980, 21% less than a year earlier. [Motor Vehicle Manufacturers Association of the United States, Inc.]

GEORGE C. COOK ASSOCIATES

Market Research, Sales Planning,
Management Studies For the Asbestos Industry

P. O. BOX 304, GREENWICH, CONN. 06830
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VALUABLE REPORTS FROM GOVERNMENT

RELATIONSHIP OF MINERAL HABIT TO SIZE CHARACTERISTICS FOR TREMOLITE CLEAVAGE FRAGMENTS AND FIBERS—Particle measurements were made with the petrographic microscope at 1250X and the scanning electron microscope at magnifications up to 10,000X; all varieties of Tremolite, upon Wiley milling, produced a significant percentage of particles which meet the Federal regulatory criteria for counting as asbestos fibers, however, only the asbestiform variety gave milled particles that fell into a size range of 10 um in length and 0.5 um in width. [Report USBM RI8367; 18 pages; free from the Publications Distribution Branch, U.S. Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213]

USBM DEVELOPS A LOW NOISE PERCUSSION DRILL—High noise levels can damage the hearing of miners; present pneumatic drills typically produce noise levels of about 116 decibels, so loud that miners must wear hearing protectors while using the drills; the new prototype drill developed by the Mines Bureau produces noise levels of about 95 decibels, low enough, according to Federal regulations, for a miner to use the drill for four hours without needing hearing protectors; the technology will also be applicable to other classes of mining drills. [Free from the U.S. Bureau of Mines, address as above]

SLIMES CONSOLIDATION AT THE HENDERSON MINE—This first commercial use of a direct electric current to dewater mine drainage slimes has shown the process to be practical, efficient and economical; the dewatering process, developed by the U.S. Bureau of Mines, separates the water from the sediment in mine water, thus easing waste handling problems; an electric current is applied to the slimes in the underground settling ponds; the water migrates toward the negative electrode which is usually placed at the bottom of the pit, the clear water can then be drained off and the densely packed sediment that remains can be more easily removed; potential hazards from the dewatering process were closely analyzed during tests and safety guidelines were developed. [Report USBM RI8441; free from the U.S. Bureau of Mines, address as above]

EVALUATION OF SURFACE MINING BLASTING PROCEDURES—Prepared by the U.S. Bureau of Mines at the request of the U.S. Mine Safety and Health Administration; contains recommendations for new and revised regulations to govern blasting practices at surface mines; suggests new rulings to minimize hazards from flyrock, to minimize workers' exposure to toxic shot fumes from explosives, to improve accident reporting systems, to strengthen safety evaluations of new blasting products or devices and to improve crowd control at blasting sites. [Order from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161; request Report #PB80-148653; $11.00 per paper copy; $3.50 on microfiche]

IMPROVING BARRIER INSERTION LOSS—Details two attempts at increasing barrier insertion loss by using two different systems of resonators attached to the edges of the barrier facing the noise source; the first system consists of quarter wavelength resonators and the second consists of the quarter wavelength resonators con-

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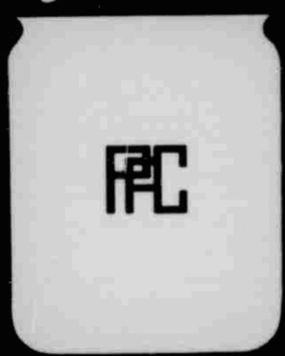
taining glass fiber wedges; results indicate that both systems more closely approximate an absorptive edge condition than an acoustically soft edge condition. [Informational Report IR1117; order from the U.S. Mine Safety and Health Administration, Washington, D.C. 20210]

OCCUPATIONAL EXPOSURE TO TALC CONTAINING ASBESTOS—Report on the results of an industrial hygiene study, a cross-sectional morbidity study and a retrospective mortality study among miners and millers of talcs. [DHEW (NIOSH) Publication 80-115; 119 pages; order from the National Institute for Occupational Safety and Health, Rockville, Maryland 20852]

AN APPROACH TO IMPROVED DURABILITY TESTS FOR BUILDING MATERIALS AND COMPONENTS—Although many tests have been developed to accelerate degradation processes of building materials, they are seldom fully adequate for reliably predicting long-term performance; this report outlines a recommended practice (ASTM E632-78) based on research by the U.S. National Bureau of Standards which provides a framework for the development of improved durability tests; while probabilistic concepts have not been applied extensively to materials durability problems in the construction industry, the authors suggest that these concepts offer new opportunities for obtaining improved quantitative predictions of the service life of building materials. [Report TN1120; $2.25 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; order by Stock #003-003-02213-6]

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British 2,026,032—To decrease the concentration of hydrogen in chlorine gas produced in the electrolysis of an alkali metal chloride brine, the asbestos diaphragm is placed in the anode compartment and a dispersion of particles of sepiolite or attapulgite is deposited onto and into the porous diaphragm; I. V. Kadija & H. M. Patel; assigned to Olin Corporation; January 30, 1980; 7 pages.

Canadian 1,007,237—Chrysotile fibers of improved strength when used in plastic compositions are made by separating a coarse fraction from Group 4 or 5 fibers, heat-treating the coarse fibers and pressure-packing the treated fibers during the heating step whereby increased impact strength is achieved with no loss of water or crystallization; R. W. Glass & R. A. Kuntze; assigned to Ontario Research Foundation; May 13, 1980; 10 pages.

U.S. 4,192,707—Same as above Canadian Patent 1,007,237; March 11, 1980; 3 pages.

U.S. 4,199,366—Pipe, tile, wall panels or other structural components of superior binding and impact strengths are formed from a mixture of gypsum plaster or Portland cement, asbestos fibers or glass fibers, polyvinyl alcohol fibers, cellulose waste or wood chips and brightness and adhesive agents, as needed; P. Schaefer, M. Capaul, W. Griehl & P. Meier; assigned to Inventa A.G. fur Forschung und Patentverwertung; April 22, 1980; 3 pages.

U.S. 4,204,938—Method of forming an improved porous diaphragm for chlor-alkali cells or the like from a mixture of asbestos fibers, a fluorine-containing rubber latex, calcium carbonate as a pore formed and sodium dioctyl sulfosuccinimate as an anionic surfactant; J. Bachot, P. Bouy & M. Juillard; assigned to Rhone-Poulenc Industries; May 27, 1980; 5 pages.

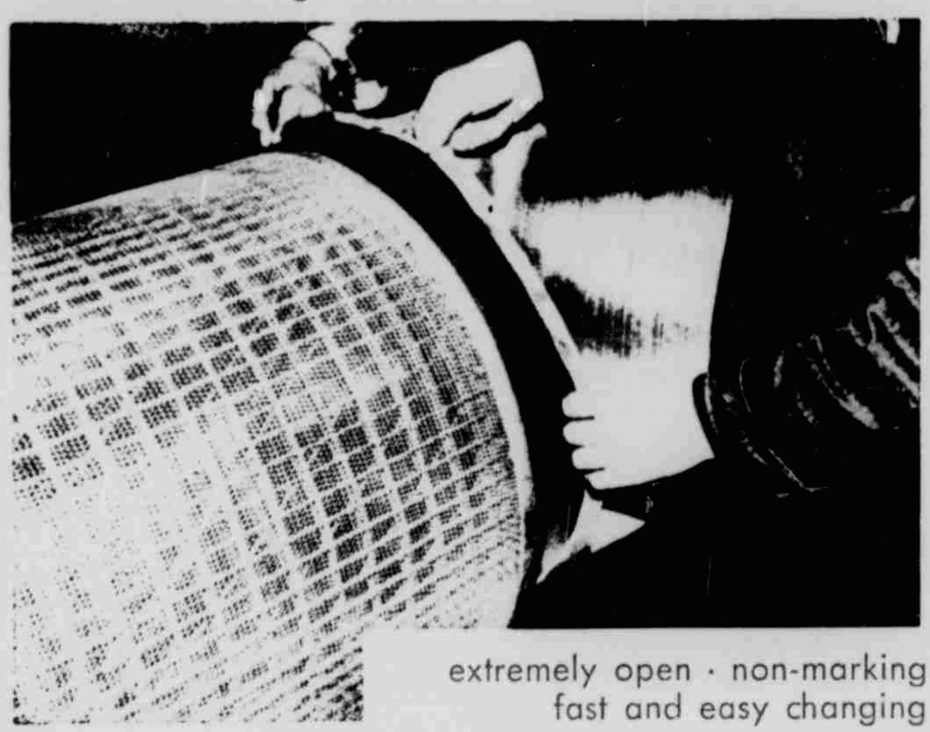
U.S. 4,204,941—A liquid-permeable diaphragm for use in a chlor-alkali is formed by filtering an aqueous suspension of amphibole asbestos and a described carboxylic polyacid electrolyte polymer through a perforate support to form a sheet, and heating the sheet to melt the polymer and thereby coat the asbestos fibers; G. Niccolini; assigned to Solvay & Cie.; May 27, 1980; 4 pages.

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 137,008 metric tonnes in *September 1980* compared with 135,567 tonnes in the ninth month a year earlier. Cumulative total for *January-September 1980* was 957,929 tonnes: 830,042 tonnes from plants in Quebec and 127,887 tonnes from plants in Newfoundland and British Columbia. Total shipments for the first nine months of 1979 were 1,091,652 tonnes: 968,023 tonnes from Quebec plants and 123,629 tonnes from the remaining operations. [Canadian Department of Energy, Mines and Resources]

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CALENDAR OF EVENTS

TOXIC SUBSTANCES: PROBLEMS IN LITIGATION—Program of the Practising Law Institute: *January 16-17* at San Francisco, California; *February 27-28* at New York City.

PROFESSIONAL DEVELOPMENT SEMINARS—Part of 15th annual program of the Department of Mining and Metallurgical Engineering at McGill University, Montreal, Quebec: Mine Lighting—*January 19-21*, Designing Jobs for People—*January 26-29*; Blasting Systems—*February 2-6*, Geostatistical Ore Reserve Estimation—*February 9-13*.

EXPLOSIVES AND BLASTING TECHNIQUE—7th annual conference sponsored by the Society of Explosives Engineers; Phoenix, Arizona, *January 19-23*.

LEGAL ASPECTS OF DOING BUSINESS WITH BLACK AFRICA/LATIN AMERICA/JAPAN—Three seminars of the Practising Law Institute to be held in New York City; Black Africa—*January 22-23*, Latin America—*February 5-6*, Japan—*February 19-20*.

CONEXPO '81—International Construction Equipment Exposition, sponsored by the Construction Industry Manufacturers Association; Houston, Texas, *January 25-30*.

FIBER COMPOSITES AND STRUCTURAL DESIGN—5th conference of the U.S. Department of Defense and the National Aeronautics and Space Administration; Warminster, Pennsylvania, *January 27-29*.

HAZARDOUS WASTES REGULATIONS/RESOURCE CONSERVATION AND RECOVERY ACT—Seminar of Government Institutes, Inc.; Arlington, Virginia, *January 29-30*.

OCCUPATIONAL SAFETY AND HEALTH WINTER INSTITUTE—Includes courses on basic industrial hygiene, personal sampling, respiratory protection, industrial toxicology, occupational health nursing, industrial ventilation and sampling and evaluating airborne asbestos dust; The University of North Carolina, Chapel Hill, North Carolina, *February 2-6*.

BATIBOUW—22nd International Building Trade and Decoration Show; Brussels, Belgium, *February 6-15*.

WASTE TREATMENT AND DISPOSAL ASPECTS: COMBUSTION AND AIR POLLUTION CONTROL PROCESSES—Conference of the Air Pollution Control Association; Charlotte, North Carolina, *February 9-11*.

ANALYSIS AND PREVENTION OF MATERIAL FAILURE—Course at The George Washington University; Washington, D.C., *February 9-13*.

ENGTRADE 88—Trade Mission of the Engineering Industries Association; Republic of South Africa and Zimbabwe, May 15-June 7; cut-off date: *February 10*.

INTERNATIONAL CONSTRUCTION EQUIPMENT '81—The public works and municipal services exhibition and congress; Birmingham, England, *February 23-28*.

EWT & ENPOCON—Effluent and water treatment exhibition and convention and environmental pollution control exhibition and conference; Birmingham, England, *February 23-28*.

INNOVATION IN INDUSTRY—Conference organized by the Steel Engineering Industries Federation of South Africa and the Council of Scientific and Industrial Research; Pretoria, South Africa, *February 25-26*.

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Remember When?

(December 1930 ASBESTOS)

New Advertiser: Asbestos Survey Bureau, Inc., New York City.

The St. Louis Road Show of 1930 contained a large and attractive exhibit showing plastic models of Rusco products. One of the featured products was Roldak Brake Lining made by the Russell Manufacturing Company, said to be unique in that it was the only lining on the market at that time which contoured to slight variations in shoes or drums.

A. S. Runacres, Director and Sales Manager for Cyprus Asbestos Company Ltd., accepted the invitation of the Soviet Government to act as its adviser and take charge of sales of Russian asbestos in Europe. His offices were located in Berlin.

The following applications were designated in this issue as new uses for asbestos paper: wrappers for warm air furnaces, pipe joint tape and segmental wrappers for warm air fittings.

Canadian asbestos production for the first nine months of 1930 was reported as 179,862 short tons vs. 228,283 tons a year earlier.

Grant Wilson, Inc., was named exclusive zone distributors for the Mineral Felt Insulating Company of Toledo, Ohio. The territory included certain areas in Illinois and Indiana.

Turner & Newall Ltd. announced that Rhodesian and General Asbestos Corporation was erecting a new central mill at the Shabani to turn out four uniform grades of asbestos. Storage accommodations with a capacity of 20,000 tons were to be provided.

The first shipment from the new shingle plant of Johns-Manville Corporation at the Manville factory was made in November 1930. It consisted of three carloads of corrugated sheathing.

(January 1931 ASBESTOS)

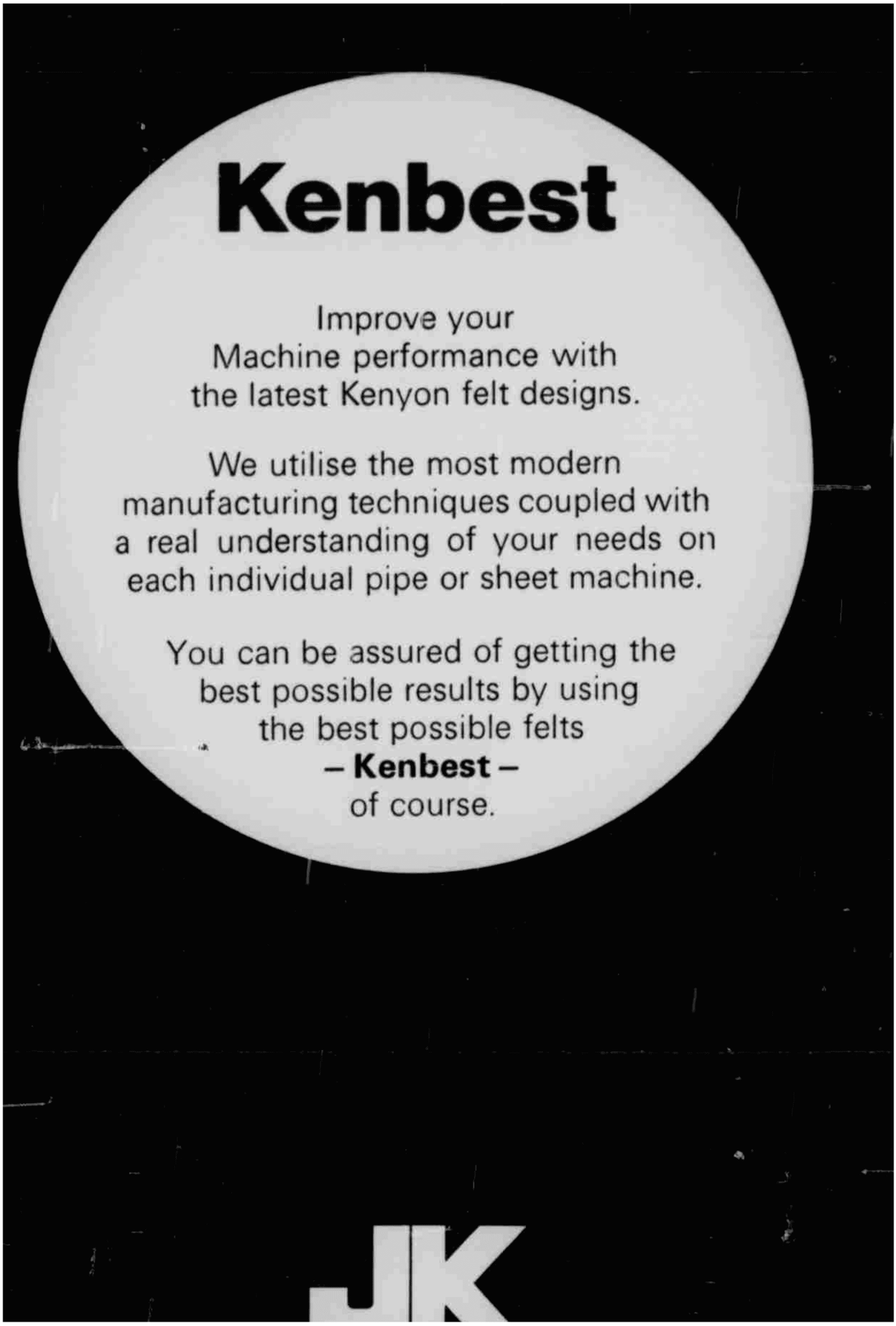
New Advertiser: The Ruberoid Co., New York City.

Among the featured articles in this issue were: Acid Resistance of Spinnable Types of Asbestos, A Disintegrator for Asbestos Fibre; The Russian Situation, and What May We Expect From 1931?.

The London Electric Wire Co. and Smiths Ltd. announced they were now marketing wire covered with Lowbestos pure asbestos fiber insulation. A feature of the insulation was that it retained its electrical and mechanical properties at the high temperatures to be found in traction, crane and rail motors and lifting magnets.

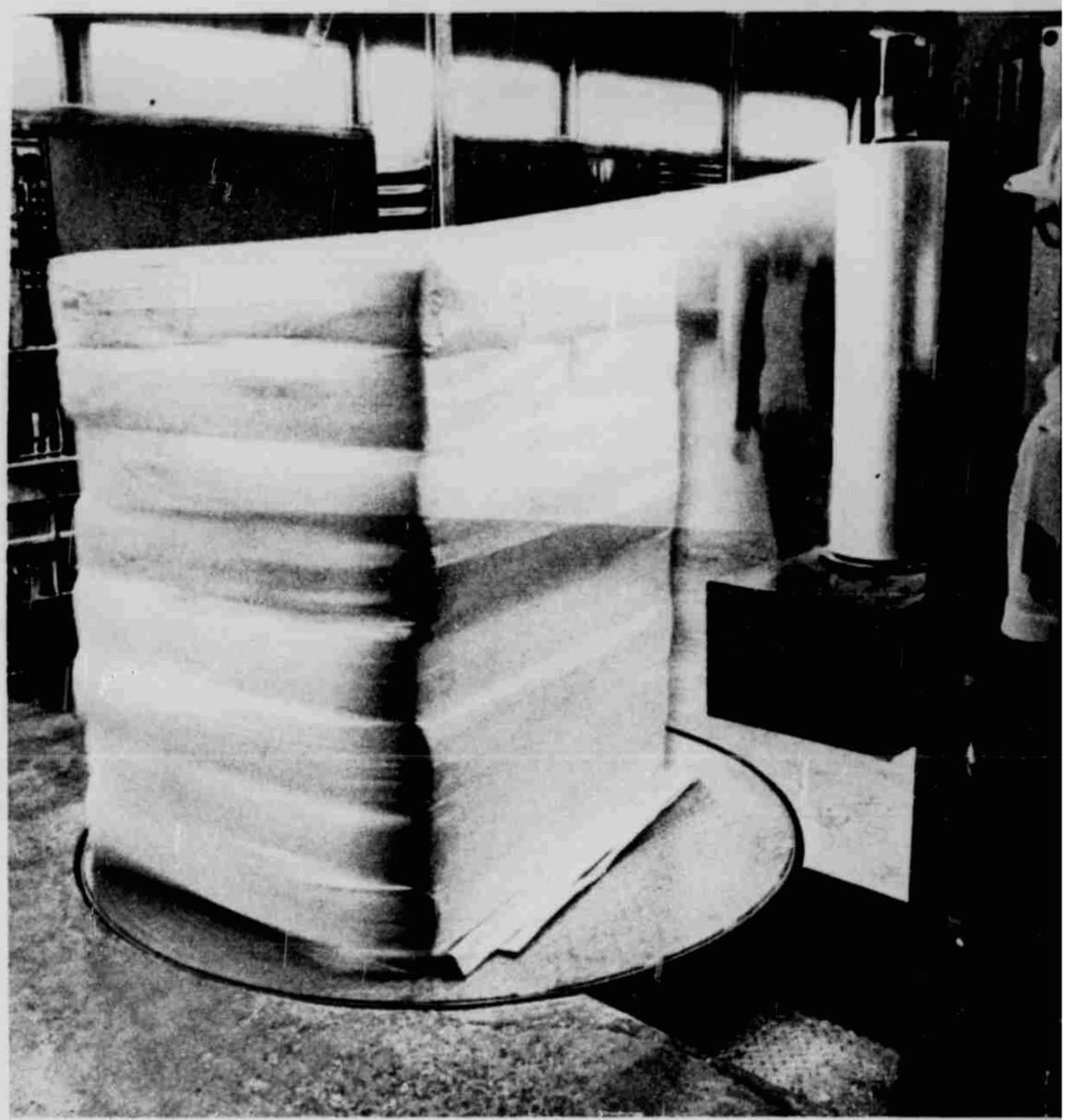
James W. Clise, Jr., Secretary of the Asbestos Supply Company, Seattle, Washington, was elected President of the Pacific Coast Asbestos Association.

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Stretch protects against and related



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Lac d'Amiante du Québec, Ltée now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

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RETIREMENTS—1980

R. O. BANKS—Company Secretary, James Hardie Industries Ltd., Sydney, New South Wales, Australia; July 1980.

ROBERT BURNS—Mine Controller, Johns-Manville Canada, Inc., Asbestos, Quebec.

THOMAS A. DENT—Vice President for Technical Services, GAF Corporation, New York City; July 1980.

GEORGE D'OLIER—Director of Engineering, Raybestos International, Raybestos-Manhattan, Inc., Trumbull, Connecticut; April 1980.

A. W. G. GIBBS—General Traffic Manager, Asbestos Corporation Ltd., Montreal, Quebec.

ROBERT M. GORDON—Vice-Chairman, Raybestos-Manhattan, Inc., Trumbull, Connecticut; June 1980.

H. WILLIAM HANDS—Director of International Marketing, H. K. Porter Company, Inc., Pittsburgh, Pennsylvania.

NOEL W. HENDRY—General Manager, Filtration and Minerals Division, Johns-Manville Corporation, Denver, Colorado; February 1980.

WILLIAM R. JANES—Special Representative, Europe, Johns-Manville Canada, Inc., Asbestos, Quebec.

EILEEN McMURRAY—Head Nurse, Johns-Manville Canada, Inc., Asbestos, Quebec.

D. FRANK MORTON—Plant Engineer, Jeffrey Mine, Johns-Manville Canada, inc., Asbestos, Quebec.

F. A. PAGE—Deputy Chairman, James Hardie Industries Ltd., Sydney, New South Wales, Australia; December 1979.

ALFRED P. RIMLINGER—Vice President, International Services, GAF Corporation, New York City; May 1980.

DEATHS—1980

GLEN A. CAMPBELL—August 21, 1979; Johns-Manville Canada, Inc., Asbestos, Quebec; had been Mill Superintendent at retirement.

MELVILLE P. CARSON—November 5, 1980; Asbestos Corporation Ltd., Montreal, Quebec; Executive Vice President and a Director.

F. M. "FRED" CONNELL—September 1980; Conwest Exploration Co. Ltd., Toronto, Ontario; renowned mine finder and mine builder.

JOSEPH W. GREENEN—August 21, 1980; Nuturn Corporation, Smithville, Tennessee; Vice President of Account Development.

PATRICK WALDRON COBHAM GRIFFITH—January 28, 1980; Turner & Newall Ltd., Manchester, England; had been Chairman at retirement.

GEORGE W. HINMAN—April 15, 1980; Hinman Asbestos Corporation, Cambridge, Massachusetts; Founder and President at retirement.

FRED KOLBERG—June 1980; Kolberg Manufacturing Corporation, Yankton, South Dakota; Co-Founder.

JACK L. RECHT—July 2, 1980; National Safety Council, Chicago, Illinois; Manager, Statistics Department.

WILLARD D. RYDER—August 7, 1980; Standard Asbestos Manufacturing & Insulating Company, Kansas City, Missouri; Chairman of the Board.

WILLIAM J. SLATTERY—July 1980; U.S. National Bureau of Standards, Washington, D.C.; Manager, Standards Information Service.

WILLIAM J. W. SMITH—July 16, 1980; Bell Asbestos Mines Ltd., Thetford Mines, Quebec; was Vice President-Marketing at retirement.

M. G. STEINMEYER—August 1980; United Insulation Company, Tulsa, Oklahoma; Owner and President.

A. K. WAUGAMAN—February 26, 1980; Mine Safety Appliances Company, Pittsburgh, Pennsylvania; a Vice President.

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Behag Asbestos Pty. Ltd.
Bell Asbestos Mines Ltd.

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Carey Canada Inc.
Cassiar Resources Ltd.
Central Asbestos Co. Ltd.
George C. Cook Associates

Durafab, Inc.

Farben Industrial Development
Feltrificio Veneto S.p.A.
Fillers & Abrasives International
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Gorham International Inc.

Heinrich Osthoff-Petrasch K.G.
Huxley Development Corporation
Huyck Australia Pty. Ltd.
Hyderabad Asbestos Cement Products Ltd.

Interasbest Zement
Ispra S.p.A.

Johns-Manville Corporation

James Kenyon & Son
Kilborn Ltd.
Andreas Kufferath KG

Lac d'Amiante du Quebec Ltee
Lynn MacLeod Capital Equipment Ltd.

Nilfisk of America, Inc.

Penn Environmental Health
C. J. Petrow & Co. (Pty) Ltd.
Pilot Manufacturing Co.
Polyrez Company
Polywrap Products of Canada Ltd.

Racal Airstream, Inc.
Raybestos Industrial Products

Salvaneschi
Scandura Ltd.
Scapa Bamford Ltd.
Siebfabrik Unterhausen Arthur Maurer
Structure Probe, Inc.
Syro Ltd.

Peter Villforth
J. M. Voith A.G.

Chr. Wandel KG
Gebr. Wehrhahn

Wurttembergische Filztuchfabrik D. Geschmay GmbH

FRONT COVER PHOTOGRAPHS—1980

MAY 1980—Circular saw with dust shield, developed for the processing of flat asbestos-cement sheet products; initially developed by Johns-Manville Corporation; offered by Pilot Manufacturing Company and Nilfisk of America, Inc.

JUNE 1980—Automatic, self-cleaning NEPA (absolute) permanent-cartridge-filter-type dust collector, available from Kermatrol Corporation.

JULY 1980—The Hi-Vac vacuum cleaner in use at the King-Beaver Mine of Asbestos Corporation Ltd.; unit supplied by NFE Canada Ltd.

NOVEMBER 1980—Magnified photographs of yarns used in felts for asbestos-cement machines; prints supplied by Conrad Munzinger & Co. Ltd.

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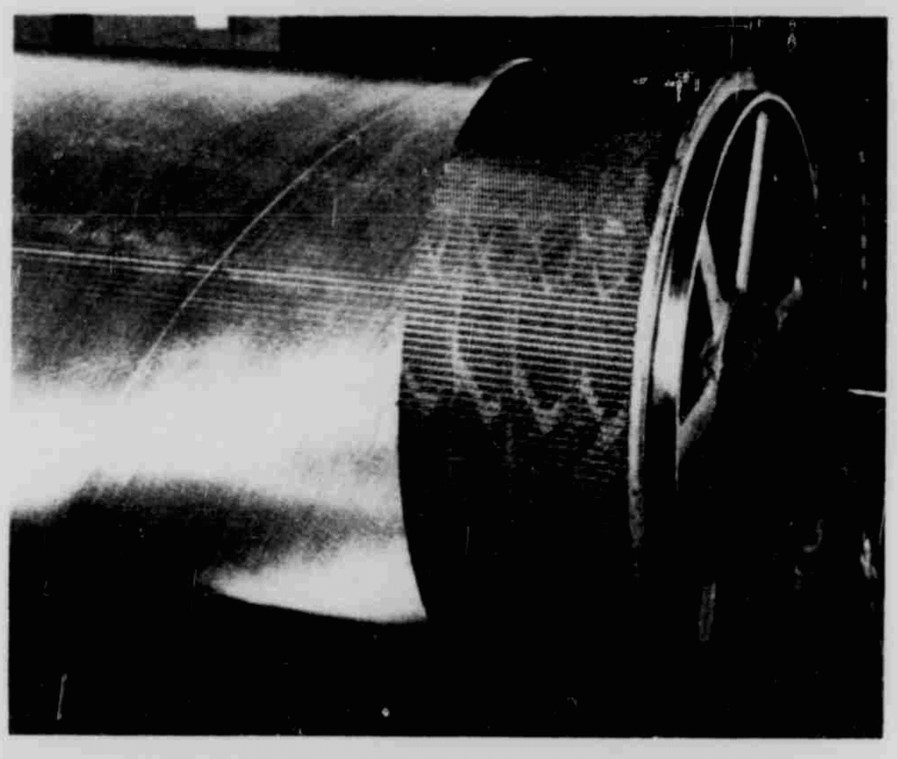
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