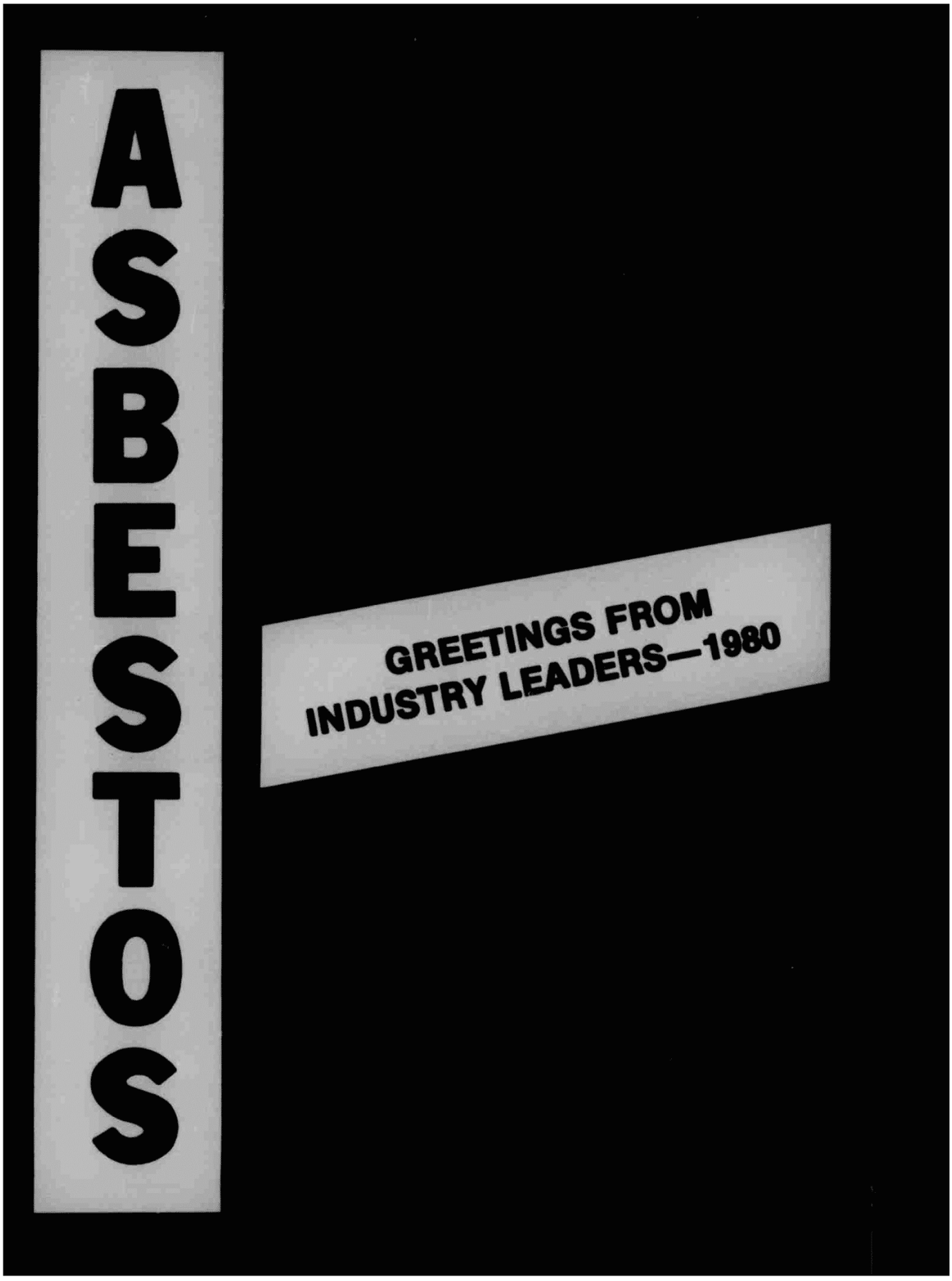


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We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

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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When our asbestos is used in the manufacture of built-up roofing felts, it becomes "locked in." So our customers can keep on using it.

Asbestos used in the felts of this built-up roofing system contributes to the dimensional stability of the system under changing atmospheric conditions, resists weathering, lowers maintenance costs, and prolongs roof life. In this application and in an extensive range of other finished products containing asbestos, the asbestos is "locked in" with asphalt, rubber, cement, latex, or other binders, to provide environmentally safe materials. Once "locked in," the release of asbestos into the environment will not be significant during normal product end use.

As a result, our customers can continue taking advantage of the unique properties of asbestos. In thousands of asbestos-containing products, asbestos serves an essential function that has not been duplicated on a cost-performance basis.

While EPA and OSHA have established standards that limit the amount of airborne asbestos generated during production or fabrication of a product, in factory or on site, there are virtually no hazards associated with the proper end use of finished products where the asbestos is "locked in."

As one of the world's leading suppliers of asbestos, we at Johns-Manville are vitally concerned with helping our customers meet these standards. On any problem anywhere, we're ready to help.

We have years of experience in creating systems that effectively and economically control asbestos dust generated in the handling of asbestos fiber and in the machining and fabricating of products containing asbestos. Our experience can help you to eliminate or substantially reduce employee exposure to asbestos.

For example, we package asbestos in pulpable bags that are added directly to the mix where they disperse along with the asbestos. Other bags can be opened automatically with dust-controlled equipment.

In shipping, we utilize damage-free bulkhead rail cars and shrink-wrapped palletized units to help prevent damage during shipment and storage. We're also developing new methods of shipping such as high-density fiber blocks and other innovations that will help maintain dust-free environments and make it easier to handle asbestos safely.

We'd like to help. For more information on safe handling of asbestos, write on your company letterhead to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, CO 80217.

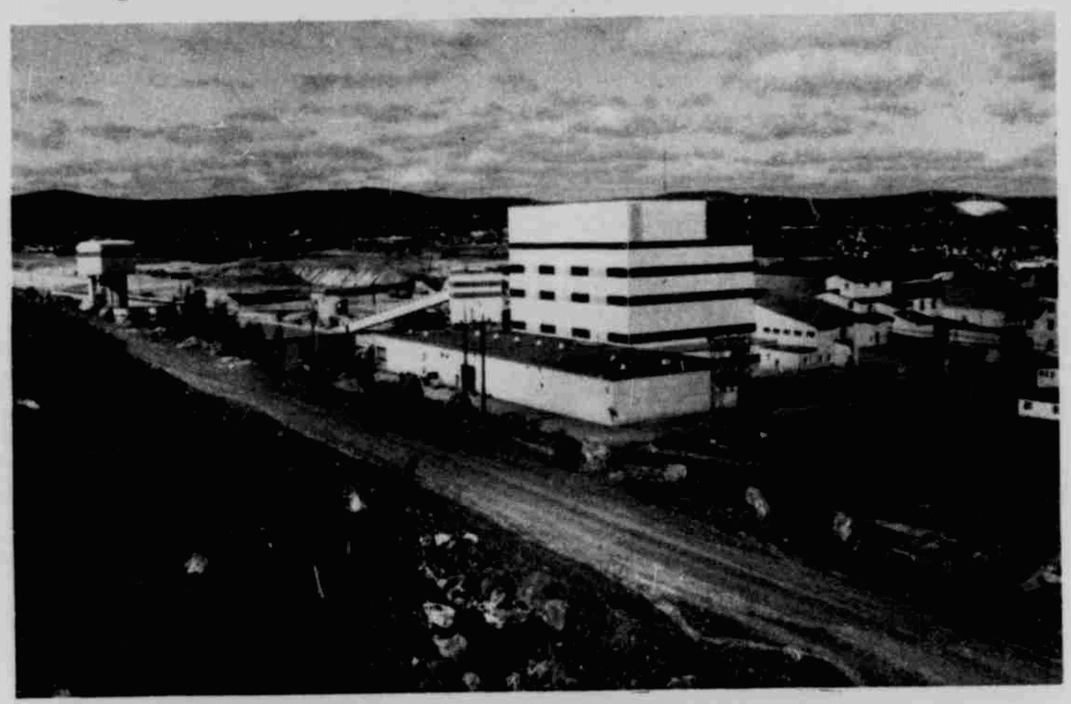
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ASBESTOS

VOLUME 61 **FEBRUARY 1980** **NUMBER 8**

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

It was a relatively successful year for asbestos producers. ACL is entering the new decade with confidence and optimism for the future of our Industry. In an inflationary and high energy-cost environment, asbestos-cement products will become increasingly advantageous compared to competitive products. The growth in asbestos-cement manufacturing facilities, particularly in the developing countries, indicates an increasing demand for good quality fibre. ACL will invest over $120-million in the next four or five years to improve and increase our production facilities. We look forward to a buoyant market.

Our Industry has developed technically advanced environmental control equipment and expertise necessary to ensure the safe production and use of asbestos and asbestos-related products. The negative publicity in Europe and North America concerning the hazards associated with the use of asbestos has been highly exaggerated. We are convinced that common sense will prevail.

On behalf of Asbestos Corporation Limited, it is my pleasure to extend to all our friends in the Asbestos Industry our best wishes for a happy and prosperous New Year.

BBA GROUP LTD.

D. M. Pearson, Chairman

During 1979 there was some improvement in demand for asbestos textiles, but our volume of sales for friction materials remained about the same as in the previous year.

In the United Kingdom, the long-awaited report of the Advisory Committee on Asbestos was published, removing some of the uncertainties about future environmental standards. We now have the task of preparing steeply increasing prices for textile fibers and do not encourage an optimistic view of prospects for the asbestos textile business in the immediate future.

From BBA Group Limited, I wish all our friends in the Asbestos Industry a happy and prosperous New Year.

CALAVERAS ASBESTOS LTD.

Gordon A. Coats, President

Calaveras embarked on an ambitious mine expansion program during the last quarter of 1979. New, larger equipment was pur-

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chased in order to move substantial quantities of waste rock so as to extend the mine life by several years. This program is progressing on schedule and we expect to open new ore reserves by 1982.

While we are not alone, all of us in this Industry have experienced excess costs due to regulatory agency requirements. Our mine was impacted particularly hard due to the enactment of the Federal Mine Safety Act. This is an ongoing expense in both time and money which creates serious operational problems. The tradeoff between costs and rewards is questionable.

Generally speaking, Calaveras looks forward to a good year, production and sales-wise, but is apprehensive in the area of government regulation.

Best wishes to all of our friends throughout the unsettled world.

CAPE INDUSTRIES LTD.

G. A. Higham, Group Managing Director

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 1979 was the sale of our mining interests in South Africa. We, of course, remain major users of asbestos and shall continue to give full support to Industry efforts in the environmental field.

There are some signs of a more balanced approach by the authorities round the world but still a good deal of ill-informed criticism.

Though business prospects seem, as usual, uncertain, we anticipate further progress in 1980 and look forward to continuing good relationships with our suppliers and customers, to mutual advantage.

CAREY CANADA INC.

M. Prus, President & General Manager

Greetings and best wishes for the New Year to all of our friends around the world in the Asbestos Industry.

This past year we completed our large environmental capitalization program. Now we have to contend with the high cost of operating and maintaining this equipment, but this we can do as long as the market demand for our products remains reasonably strong.

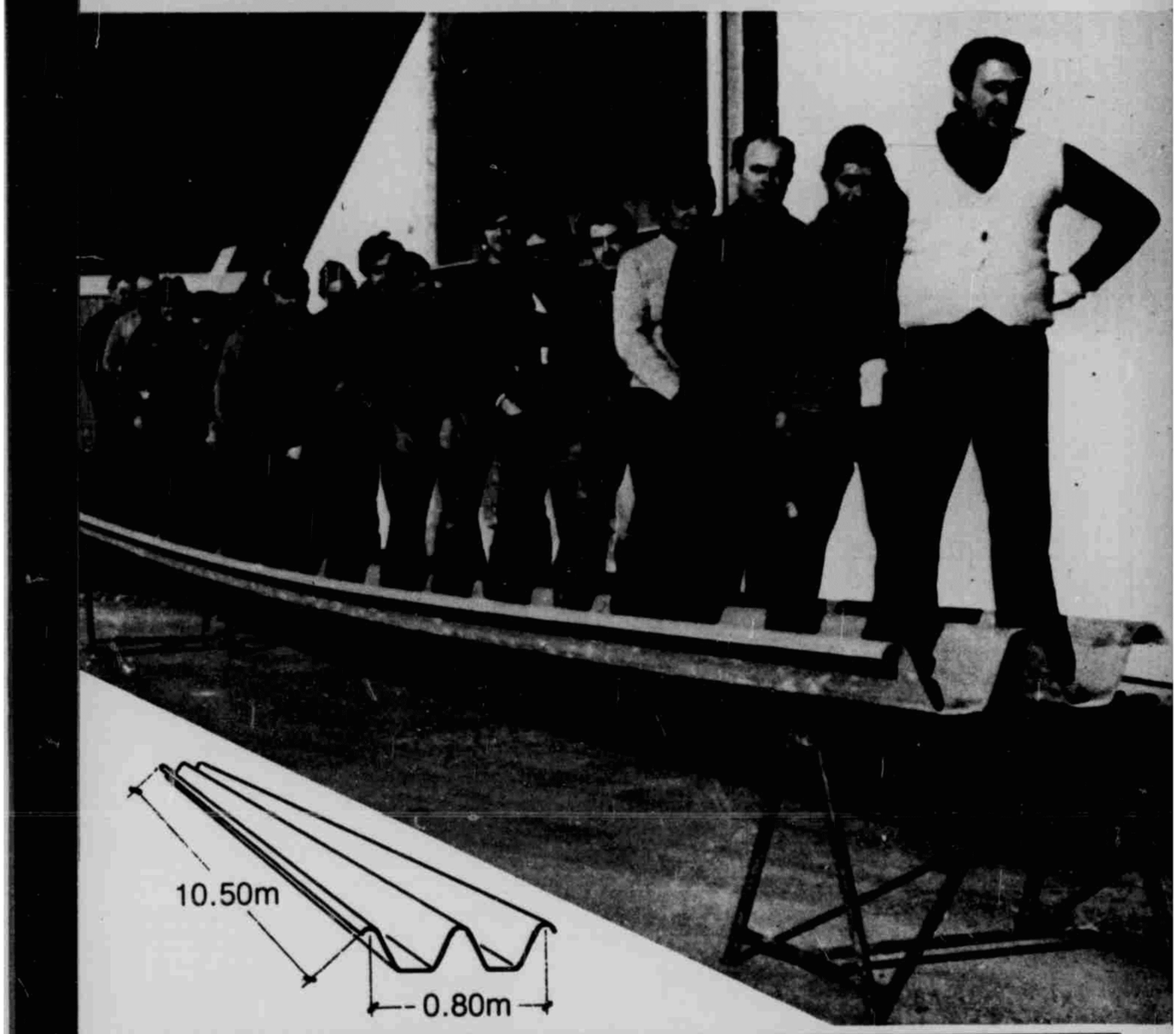
During the past year, we have enjoyed visits here at our mine by many of our friends. Please understand you are all invited and are most welcome. Please come to see us soon.

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+ asbestos
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On behalf of Carey Canada Inc., I wish you one and all a very happy and prosperous New Year.

CASSIAR ASBESTOS CORPORATION LTD.

J. D. Little, President & Chief Executive Officer

Cassiar Asbestos Corporation wishes its many friends throughout the Industry a happy and prosperous 1980.

During 1979, Cassiar Mine's production approximated fibre sales. In addition to the sale of Cassiar fibre, all of the remaining Clinton Mine's 1978 fibre was sold. The strike, which commenced in September 1978, was settled with the signing of a Collective Agreement on the 15th of January 1979. This Agreement terminates in June 1981.

The program of plant modernization which commenced in 1978, and was interrupted by the strike, was completed by the end of 1979. This program has resulted in improving plant efficiency, environmental conditions, as well as working and living conditions.

The death of Mr. Nicholas Gritzuk, Chairman of the Board, on 14th April 1979 was regretted by all. His long association with the company in its early development and his knowledge of the Asbestos Industry will be missed.

On 1st June 1979, Mr. Peter C. Jones was appointed Mine Manager at Cassiar, with the transfer of Mr. Brian G. Pewsey, Vice President-Operations, to the company head office in Vancouver.

CERTAINTEED CORPORATION

PIPE AND PLASTICS GROUP

W. A. Krivsky, Senior Vice President

CertainTeed Corporation wishes the Industry and ASBESTOS Magazine a prosperous and happy 1980.

The asbestos-cement pipe business was at a lower level in 1979 than it had been in 1978. The only consolation seems to be that the business of our arch rival, ductile iron, suffered basically the same fate. 1980, with the unsettled political and economic issues in the United States, together with inflation and the various efforts to curb it, depressed housing starts, and the deteriorating financial conditions of most municipalities and states will indeed be a challenge to our enterprises.

The health issue continues to divert our energies necessarily and 1980 promises to represent a climax to such federal activities with the outcome for the Industry still in doubt.

In spite of these negative factors, we at CertainTeed have re-

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affirmed our conviction that asbestos-cement pipe will continue to be a most viable product for us in the future, representing as it does the most cost-effective solution to a wide range of piping applications. To this end we have just completed the installation of a new production line at our Hillsboro, Texas, facility while simultaneously retiring a somewhat smaller, much older facility located in St. Louis, Missouri.

We continue to strive to offset the ravages of inflation by improved productivity, since we are convinced that the real foundation of our future growth must be based upon the economic superiority of our product to our customers as compared to the very many alternative material choices they have available to them.

FRENZELIT ASBESTWERKE

F. A. Kopetz, General Manager & H. Bacher, Export Manager

It is our pleasure once again to extend greetings to our associates and friends around the world. May you all have a prosperous and successful New Year.

Despite the downward trend in sales in some areas, 1979 was, overall, a very successful year for Frenzelit. We look forward with confidence to whatever the future may hold, in the belief that asbestos will continue in widespread use, chiefly in the motor car industry in the short as well as the long term. Products made from substitutes have been developed in recent years, but none has yet made a perceptible impact on the market.

We look forward to the eighties with faith in further progress with asbestos.

JAMES HARDIE INDUSTRIES LTD.

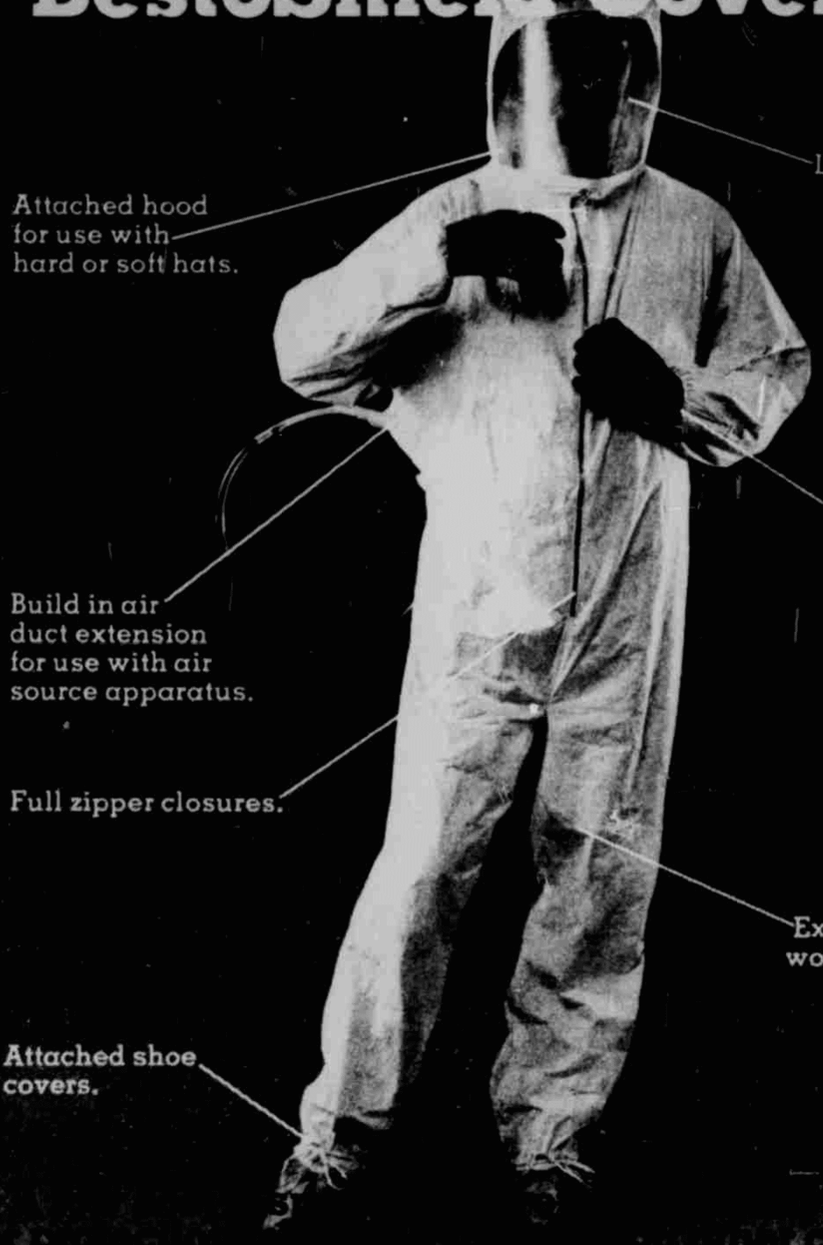
J. B. Reid, Chairman

The principal corporate development was the change of the company's name to James Hardie Industries Limited, since, as a result of our acquisition of Reed Consolidated Industries Limited, the former name was no longer an appropriate description for an enlarged range of activities.

Of even more importance were the firm signs of economic recovery in Australia, particularly, with a resulting increase in sales of building products, although pipe sales have been restrained as a consequence of restricted Government expenditure on public works.

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New. The Durafab BestoShield Coverall.



carcinogens.

Durafab's BestoShield coveralls have outstanding barrier qualities because they're made of DuPont's Tyvek™, a spun-bonded olefin with a Frazier Air Permeability of .01.

The BestoShield coverall can help reduce the health hazards in asbestos mining, shipyards, boiler rooms, insulation work, or any place where asbestos or other carcinogens are involved.

These special coveralls are available in a variety of styles and materials. With or without shoe covers, attached hoods, sealed seams and other features. From conventional styles to totally enclosed coveralls.

The BestoShield coverall is also available coated with polyethelene film to provide water repellency, grease and oil resistance and an effective acid resistant barrier. These coveralls have a Frazier Air Permeability of .0.

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In order to take advantage of the prospects ahead which are encouraging, new products have been launched with good market response, for the cladding of homes and specialist items for commercial and industrial buildings. This again confirms our view that the limits to product design in asbestos cement lie in our own minds rather than in the quality of the materials we use.

Hopefully, the world enquiries and reports on safe levels of working with asbestos will bring about conditions where the product will be considered rationally, recalling that there are some applications where there is no appropriate substitute, no matter how successful may be the development of alternatives.

Both at home and overseas, we look to brighter times ahead and on that optimistic note wish our suppliers and customers a prosperous entry into the '80's.

JOHNS-MANVILLE CORPORATION

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

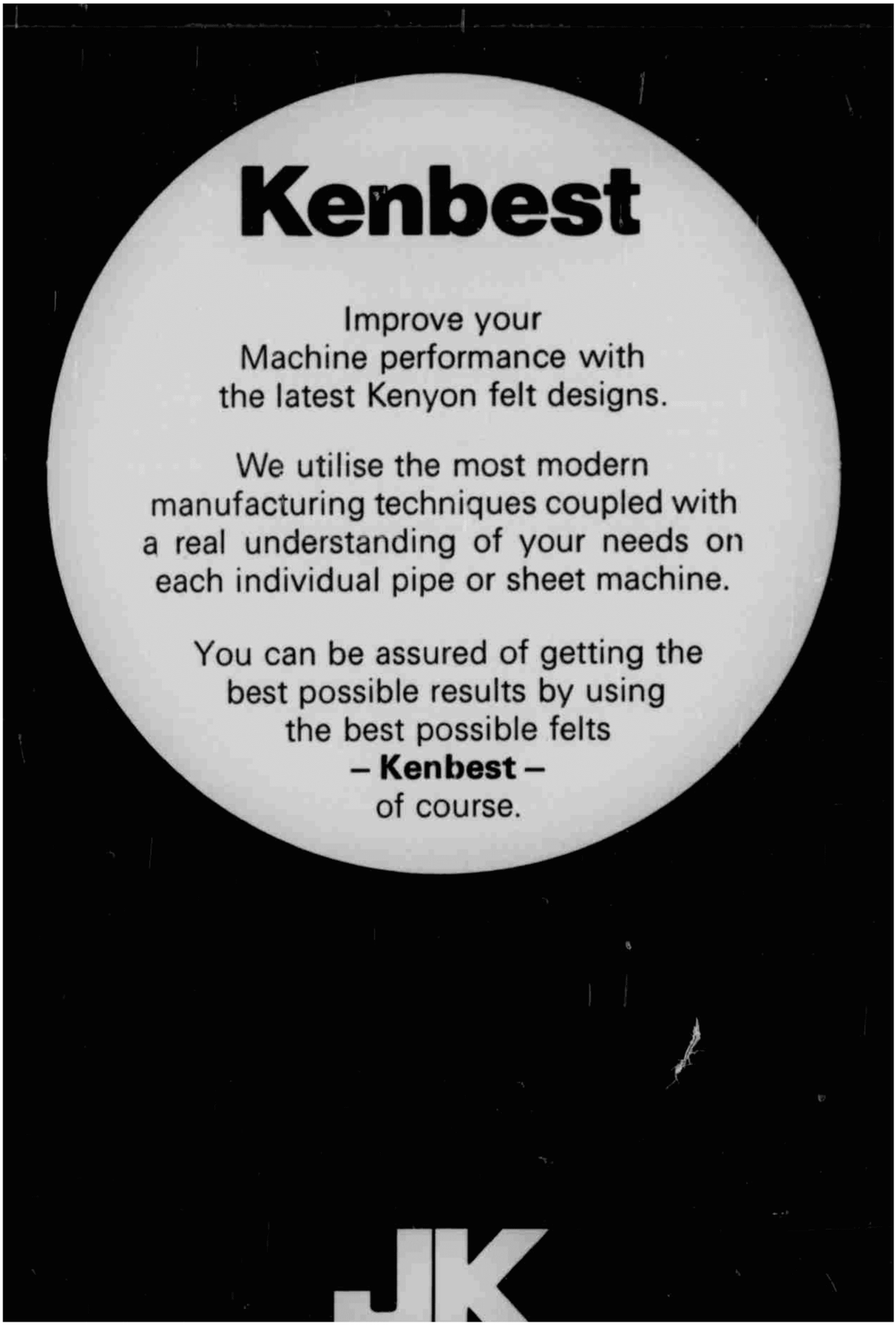
As a new era unfolds, it is an appropriate time to focus on "challenges of the 80's" as asbestos faces the decade. And, while we may expect the field of challenge to be broad, it is a matter of corporate social responsibility, and survival, that we as an Industry, narrow the field to two specific areas at this time.—They include: helping achieve quick adoption of legislation calling for adequate compensation for the victims of asbestos-related diseases and; concerted action opposing "regulators" whose apparent emotional intent is to regulate the Asbestos Industry into oblivion.—To ignore these primary challenges is to witness the demise of an otherwise responsible and healthy Industry.

During the decade past, many challenges were met and much has been learned about the asbestos business. This new "expensive knowledge" should not be allowed to collect on a shelf, but rather, be drained hard and long for every precious detail that will help us individually and collectively rise to a new plateau of more responsible leadership.

At Johns-Manville, we will continue shouldering our share of responsibility by speaking out for what we believe in.—An appropriate compensation system and reduced regulation by those who neither know about the Industry, or really care about driving thousands of workers from their jobs.

The Industry *does* have a future and will remain prosperous with proper support. It is in this spirit, that we at Johns-Manville extend a sincere "thank you" to our customers for your support in 1979, and extend best wishes for a prosperous New Year and decade.

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LAC D'AMIANTE DU QUEBEC, LTEE (LAQ)

Michael J. Messel, President

As we start a new year, it is again a pleasure to extend through ASBESTOS our warmest best wishes for 1980 to our customers and friends in the Asbestos Industry.

While 1979 was fraught with many uncertainties, new problems and regulations, the Industry had a reasonably good year. I see 1980 as a year of great challenge to the Industry and its survival and, therefore, we must work cooperatively with all concerned towards scientific progress in the safe and continued use of this very valuable mineral that has contributed so greatly to saving many lives and to the world's industrial development through its numerous applications.

Best wishes to all.

NICOLET, INC.

Guy G. Gabrielson, Jr., Chairman of the Board

Although some small and marginal uses for Nicolet asbestos products have disappeared, sales volume has proven to be remarkably resilient in the face of government regulatory initiatives and media alarms concerning the health effects of exposure to asbestos fibers. This resilience is testimony to the difficulty of finding adequate substitutes for this extraordinary material. It is to be hoped that this fact will become better known to the regulatory authorities, if it cannot be made known to the general public. We all must work toward a more thorough understanding of the risk-benefit trade-off inherent in the continued intelligent use of asbestos fibers.

Nicolet sends to others in the Industry its wishes for a happy and prosperous 1980.

RAYBESTOS-MANHATTAN, INC.

William S. Simpson, Chairman & Chief Executive Officer

1979 was a year of change at Raybestos-Manhattan. The installation of our Novatex wet spinning process was completed. Numerous development programs were carried on in the laboratories and in the field in an attempt to find suitable substitutes for asbestos fiber. Economic conditions, particularly in the automotive industry, became more depressed as the year developed, while cost of materials and services grew with double digit inflation. Government environmental regulations at the federal and state levels continued to be more stringent.

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Also we named a new President, Frederick J. Ross, who had 21 years of service in management capacities at Carborundum. It is planned that he will assume the Chief Executive Officer role on April 1 as I approach my retirement.

Raybestos-Manhattan will continue to face the challenges of the future with an aggressive posture, determined to play a leading role for the industries it serves as well as seeking out new markets.

SOUTHERN TEXTILE CORPORATION

E. C. Bratt, President

Southern Textile Corporation is most pleased to have the opportunity through ASBESTOS to extend greetings and best wishes to our customers and friends in the Asbestos Industry.

1979 was as interesting and as rewarding as we anticipated a year ago. Despite continuing governmental pressures and a very uncertain economic outlook, we are looking to 1980 with confidence.

TURNER & NEWALL LTD.

Stephen Gibbs, Chairman

We begin 1980 with rather more confidence in the Asbestos Industry than in some recent years. Consumption of asbestos fibre appears to be growing, albeit slowly, though the second half of the year may be more difficult for asbestos mining if the world's economic problems become more severe.

Against this background the return of Rhodesia, with its important mines, to the comity of nations is most welcome, particularly to Turner & Newall, which has been denied access to its Rhodesian companies for 14 years.

In the United Kingdom the final report of the government's Advisory Committee on Asbestos (the Simpson Committee) has now been published. I am sure that eventually its recommendations will result in more stringent standards of dust control, not only there but in other countries which will follow. In most cases we can suitably adapt our manufacturing processes, and I am confident that we shall be able to continue the positive promotion of asbestos-based products.

To all our friends in the Industry I should like to wish a prosperous New Year.

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UNION CARBIDE CORPORATION

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

I appreciate the opportunity to send greetings to our many friends in the Asbestos Industry, including a special "thank you" to our customers for your support this past year.

Our ongoing mutual concern must be the economic impact and overall business effect of government regulatory controls and inflation. Our unique wet process for ore beneficiation, which enables the production of pelletized asbestos products, is significantly affected by energy costs and modest price increases were made the first of the year.

In addition to pelletized products for dust control, we plan to introduce a "wetted" product for a limited application. Most of our asbestos pellets are shipped in bulk hopper cars and we will offer improved packaging for nonbulk shipments. We banned smoking on plant premises in 1977 and have a continuing program to reduce employee exposure to asbestos fibers.

Best wishes to all for a prosperous 1980.

WOODSREEF MINES LTD.

Harry H. Robinson, Chairman & Managing Director

We send greetings and best wishes from Woodsreef to everyone in the Asbestos Industry.

We see 1980 as a year of increased demand for asbestos in the developing countries. This increase should more than compensate for any leveling off in demand in Europe and North America. In the longer term, we see shortages developing because present asbestos prices do not justify bringing new mines into operation.

We believe that a viable wet process for the extraction of asbestos will become a reality within the next five years. Woodsreef is already well advanced on a wet milling process.

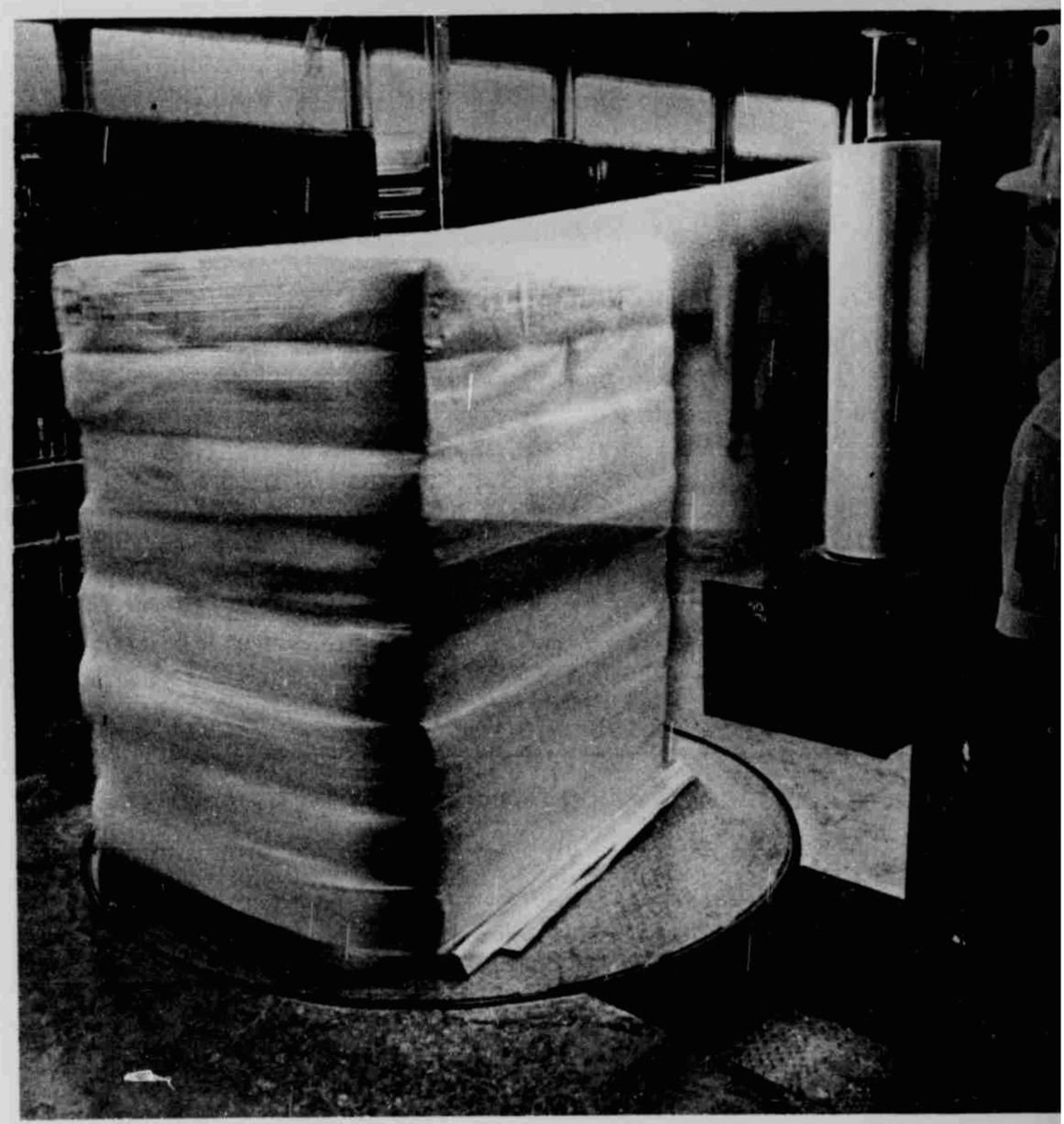
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Keeps you abreast of all developments. Each issue contains about 100 abstracts relating to the manufacture of asbestos-based products. Special chapters on asbestos mining, asbestos-cement, asbestos textiles, friction, building, plastics, sealing, coating and insulating materials, asbestos-substitutes, health and precautions. Annual subscription US$59.00; back copies half price. Order from:

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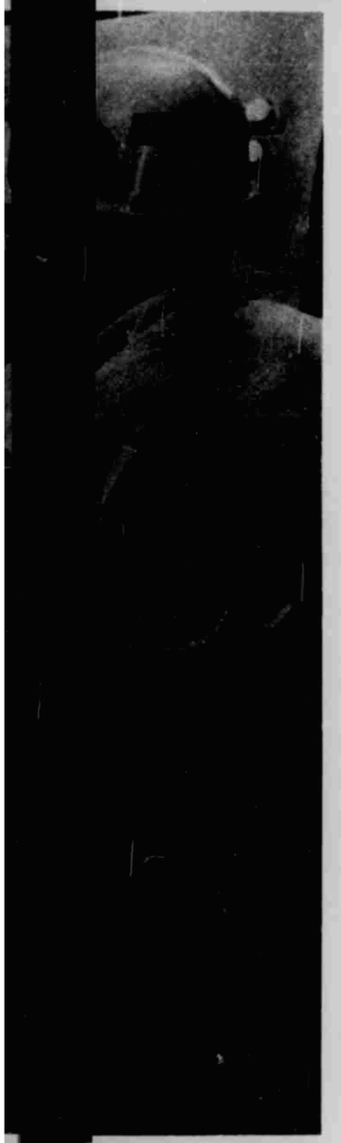
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Stretch protects against and related



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wrapping broken bags dust problems.



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:

- During car loading and unloading.
- During transit.
- In storage and in-plant handling.

Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of LAQ's concern for its customers and the environment. For details contact Lac d'Amiante du Québec, Ltée, P.O. Box 608, Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

LAQ

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MARKET CONDITIONS

GENERAL BUSINESS

Inflation remains the prime domestic problem in the United States. At the end of 1979 the rate stood at 13.3% annualized, the highest since the end of World War II. In mid-February the figures for January became available, showing a 1.6% increase in wholesale prices for an annualized rate of 20.7% compounded and allowing for seasonal factors. This prompted the Federal Reserve Board to raise the discount rate to 13% and banks are expected to raise their prime rates proportionately in the immediate future. The administration expects inflation to slow to 10.4% for all of 1980. Considering the official prediction in mid-1979 that the rate for that year would *possibly* exceed 8%, it would not be surprising if the actual figure for this year would be in the range of 12-14%, an admittedly grim prospect.

Despite signs that the economy is weakening, in October the stock market began a rally which continued to gain strength on near-record volume until early February when the latest rise in the discount rate put at least a temporary damper on bullish sentiment. Meanwhile, the market for long term bonds, after a limited recovery from the slump of late 1979, went into another sharp decline, reflecting investors' feelings that the administration had practically abandoned hope of bringing inflation under control. Following its spectacular runup, the price of gold settled back and is holding steady in the $650 range.

Since last October, when it was thought the long awaited recession was getting underway, the economy has been giving off mixed signals. Most recently, the positive readings have overshadowed the negatives to such a degree that many economists have changed their minds and now predict an extremely mild recession or no recession at all. This change of heart results from an unexpected surge in consumer spending, the prospect of heavier defense outlays and improving demand in the markets for autos and housing. Thus it seems ever more likely that contrary opinion will again prevail and we may completely avoid the most widely anticipated recession in history. While this would normally be considered good news, it is being received with some misgivings by those who have been banking on a recession to moderate inflationary pressures.

The international situation is clouded by the Russian presence in Afghanistan and the continued holding of American hostages by the Iranian militants. Current negotiations offer some hope for early release of the hostages but there are no indications of any change in the Russian position in Afghanistan.

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DODGE CONSTRUCTION CONTRACTS

DECEMBER/YEAR 1979—A modest gain in construction contracting in December reversed a five-month series of declines. In the final month the value of newly started construction projects was $10.5-billion, a gain of 6% over the prior December. These new projects brought the 1979 total to a record $166.4-billion, 4% higher than in 1978. The seasonally-adjusted Dodge Index (1972 = 100) jumped 17% in December to 183, signaling the highest rate of activity in several months. . . . Contracting for *nonresidential* building reached $3.6-billion in December, a new seasonally-adjusted high and 18% above the year-ago month. Commercial and industrial projects were up 16% and institutional building gained 21%. Total contract value for the year amounted to $49.7-billion, 10% above 1978. . . . A modest rebound in the seasonally-adjusted rate of housing starts, following the sharp break in November, left the $4.3-billion of *residential* building in December 9% below the previous December value. For the full year 1979, the value of new residential building was $74.7-billion, unchanged from 1978. At 1979 prices, however, this amount bought 11% fewer homes and apartments than it did in 1978. . . . *Nonbuilding* construction advanced 19% in December, as $2.7-billion of work was begun including a $600-million coal-fired power plant in Iowa. In 1979, contracting for projects in this category reached $42-billion, a gain of 5% over 1978. The increase in 1979 was confined largely to highway construction stimulated by extra funds available from the new Surface Transportation Act. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

NEXT ISSUE: 1979 ENVIRONMENTAL REVIEW

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		OCTOBER 1979	
Amosite, South Africa	s.tons	40	$ 23,747
Crocidolite, South Africa	s.tons	192	119,016
Chrysotile Crudes, South Africa	s.tons	14	14,526
Chrysotile Spinning Fibers, Canada	s.tons	794	497,434
Chrysotile, Other, Canada	s.tons	39,287	9,247,303
Mexico	s.tons	7	1,273
South Africa	s.tons	130	150,854
Other Crudes & Fibers, Canada	s.tons	1,246	311,256
Germany, Fed. Rep.	s.tons	1	1,341
India	s.tons	32	9,169
		41,743	$ 10,376,419

MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	743,386	$ 1,257,883
A-C pipes, tubes & fittings	Lb	450,526	137,778
Other asbestos-cement articles	Lb	4,296,295	728,131
Other asbestos articles		..	566,261
			$ 2,690,053

UNMANUFACTURED ASBESTOS:		JANUARY-OCTOBER 1979	
Amosite, Canada	s.tons	81	$ 6,469
South Africa	s.tons	388	199,992
Crocidolite, Canada	s.tons	99	26,155
Namibia	s.tons	230	142,819
South Africa	s.tons	13,575	8,458,626
Switzerland	s.tons	173	107,114
Chrysotile Crudes, Canada	s.tons	152	27,691
Italy	s.tons	18	4,356
South Africa	s.tons	417	268,862
Chrysotile Spinning Fibers, Canada	s.tons	7,667	6,064,809
Chrysotile, Other, Australia	s.tons	40	4,377
Canada	s.tons	446,153	97,307,459
Germany, Fed. Rep.	s.tons	12	7,271
Mexico	s.tons	19	3,667
Norway	s.tons	22	6,249
Romania	s.tons	22	3,666
South Africa	s.tons	1,950	1,218,274
United Kingdom	s.tons	22	3,763
Yemen	s.tons	22	8,397
Other Crudes & Fibers, Canada	s.tons	9,625	2,579,498
Germany, Fed. Rep.	s.tons	12	30,808
India	s.tons	245	61,924

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U.S. IMPORTS—CONTINUED

Italy	s.tons	17	3,630
Mexico	s.tons	1	1,000
Norway	s.tons	26	1,033
South Africa	s.tons	108	46,302
		481,096	$116,594,211

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	7,959,301	$ 12,554,593
A-C pipes, tubes & fittings	Lb	20,148,459	3,131,560
Other asbestos-cement articles	Lb	29,354,015	5,358,744
Other asbestos articles		..	5,149,362
			$ 26,194,259

January-October 1978: U.S. imports of unmanufactured asbestos totaled 511,018 short tons, valued at $129,504,663; imports of manufactured asbestos products were valued at $29,779,438.

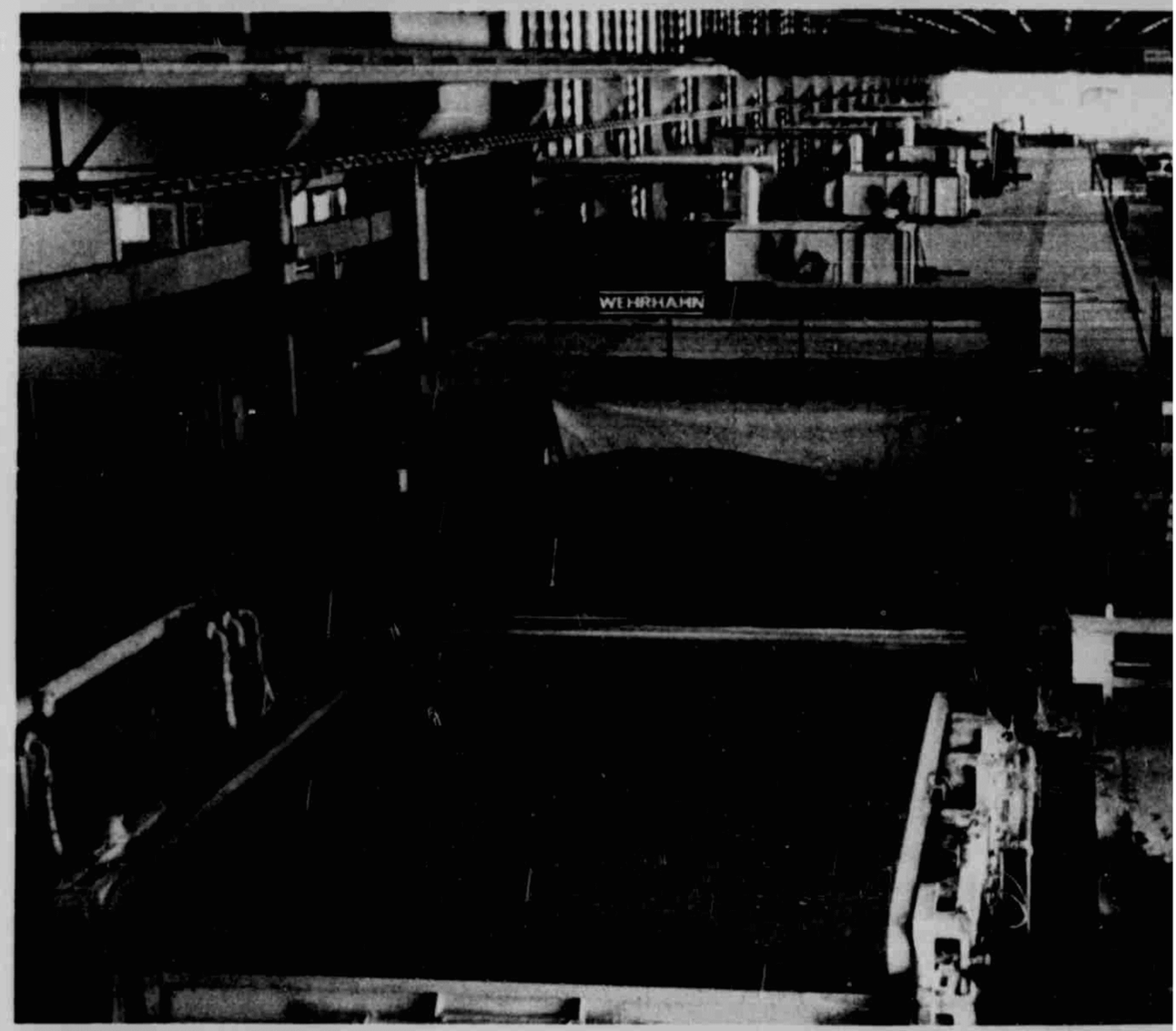
CANADA FIBER SHIPMENTS—Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 135,567 metric tonnes in *September 1979* compared with 143,505 tonnes in the same month a year earlier. Shipments during *October 1979* reached 137,565 tonnes vs. 137,969 the prior October. *November 1979* shipments totaled 127,411 tonnes against 120,193 tonnes in November 1978. Cumulative total for *January-November 1979* is 1,356,628 tonnes: 1,205,723 tonnes from plants in Quebec and 150,905 tonnes from plants in Newfoundland, Ontario, British Columbia and the Yukon. Total shipments for the first eleven months of 1978 were 1,292,541 tonnes: 1,137,232 tonnes from Quebec plants and 155,309 tonnes from plants in the other four Provinces. [Statistics Canada]

CANADIAN PRODUCT IMPORTS—Canada imported C$21,407,000 worth of asbestos-containing products during the *First Nine Months of 1979* compared with $19,893,000 during the nine months to September 1978 and $16,311,000 in the like 1977 period. Breakdown, by product category, for the latest nine months is: vinyl-asbestos floor and wall tiles—$272,000 (146,360 square yards; 122,376 square meters); asbestos cloth, dryer felts and sheets—$2,225,000; asbestos packings—$2,058,000 (1,234,815 pounds; 560,099 kilograms); asbestos brake linings—$6,307,000; asbestos clutch facings—$1,497,000; asbestos-cement shingles and siding—$22,000; asbestos-cement boards and sheets—$427,000; other asbestos building materials—$3,989,000; other basic asbestos products—$4,610,000. [Statistics Canada]

SOUTH AFRICAN OUTPUT & EXPORTS—Asbestos *production* in the *First Quarter of 1979* totaled 54,200 metric tonnes, 16.3% less than the 64,735 tonnes produced in the first three months of 1978. Breakdown for the latest quarter is: 24,434 tonnes of Cape Crocidolite (down 30%), 20,709 tonnes of Chrysotile (down 0.9%), 9,057 tonnes of Amosite (up 2%). No Transvaal Crocidolite was produced during the 1979 period vs. 30 tonnes in 1978. . . . *Exports* in the *First Quarter of 1979* were valued at

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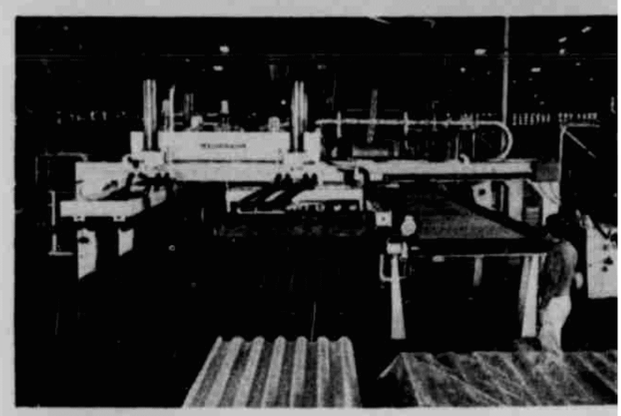
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Asbestos-cement pipe machine



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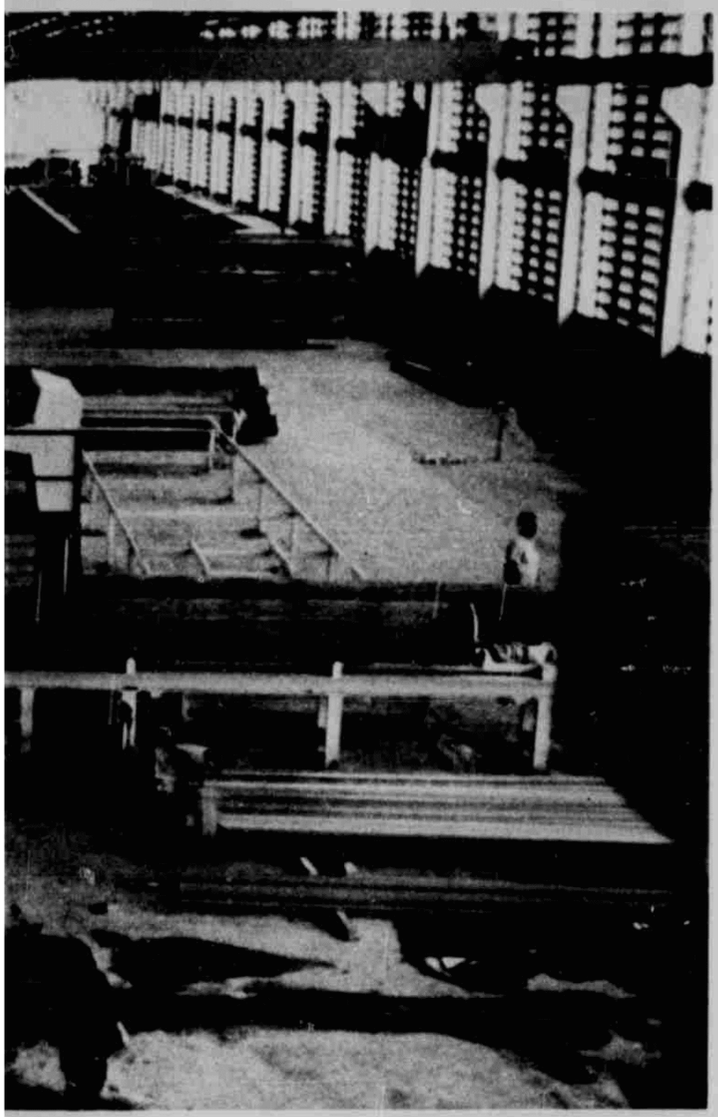
Asbestos-cement sheet plant

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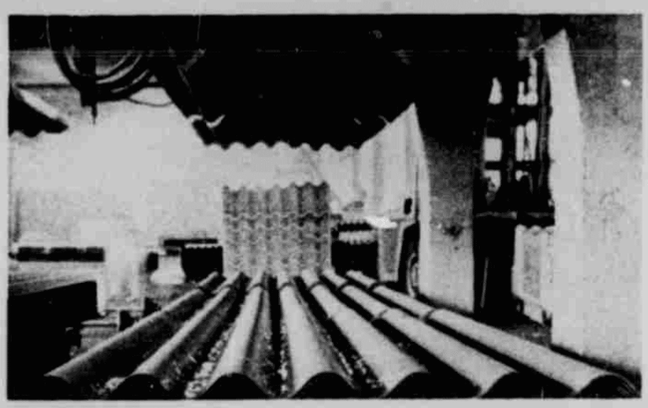
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R21,652,709, down 3% from the like period a year earlier. By variety of asbestos, the values for the latest quarter are: Cape Crocidolite—R14,436,456 (down R2-million), Chrysotile—R3,766,557 (up R2.2-million), Amosite—R3,449,696 (down R0.8-million). [Department of Mines, Braamfontein]

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

			OCTOBER 1979	
UNMANUFACTURED ASBESTOS:				
Asbestos crudes, fibers & stucco	s.tons	3,806	$	1,504,392
Asbestos sand & refuse	s.tons	863		285,201
		4,669	$	1,789,593
MANUFACTURED ASBESTOS PRODUCTS:				
Asbestos yarn, cloth, tape, etc.	Lb	264,285	$	442,490
Asbestos-Cement shingles & clapboard	Lb	658,594		165,415
Other asbestos-cement articles	Lb	2,867,069		1,078,717
Asbestos gaskets	Lb	73,438		339,547
Asbestos packings & seals	Lb	534,379		1,738,014
Asbestos insulation		..		365,357
Brake linings & disc brake pads		..		4,110,953
Clutch facings & linings		..		1,142,260
Other asbestos articles		..		2,113,690
			$	11,496,443

			JANUARY-OCTOBER 1979	
UNMANUFACTURED ASBESTOS:				
Asbestos crudes, fibers & stucco	s.tons	28,117	$	10,410,336
Asbestos sand & refuse	s.tons	9,241		2,886,272
		37,358	$	13,296,608
MANUFACTURED ASBESTOS PRODUCTS:				
Asbestos yarn, cloth, tape, etc.	Lb	4,945,768	$	5,621,392
Asbestos-Cement shingles & clapboard	Lb	14,776,002		3,482,194
Other asbestos-cement articles	Lb	31,511,951		11,265,480
Asbestos gaskets	Lb	8,908,877		4,017,134
Asbestos packings & seals	Lb	4,652,202		11,818,387
Asbestos insulation		..		3,862,168
Brake linings & disc brake pads		..		48,963,991
Clutch facings & linings		..		8,194,385
Other asbestos articles		..		19,199,346
				$116,424,477

January-October 1978: U.S. exports of unmanufactured asbestos reached 39,231 short tons, valued at $10,985,478; exports of manufactured asbestos products were valued at $101,183,715.

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EXPORTS FROM CANADA

From: Statistics Canada

OCTOBER 1979

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,101	27,853	13,167
Eastern Europe	..	111	2,247	196
Middle East	..	..	3,167	135
Africa	..	..	940	386
Asia	..	348	9,510	9,066
Oceania	..	..	1,990	133
So. & Cen. America & Antilles	..	163	4,463	3,339
United States	..	625	9,953	33,908
	..	2,348	60,123	60,330

The total amount of unmanufactured asbestos exported in *October 1979* was 122,801 short tons, valued at C$50,895,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 495,000
Asbestos brake linings & facings	228,000
Asbestos-Cement building materials	1,745,000
Other basic asbestos products	1,163,000
	C$ 3,631,000

JANUARY-OCTOBER 1979

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	9,505	251,680	143,498
Eastern Europe	..	2,800	37,081	1,688
Middle East	..	118	15,991	1,161
Africa	..	7	8,939	2,532
Asia	..	4,221	115,188	108,120
Oceania	..	5	21,832	1,511
So. & Cen. America & Antilles	..	2,179	73,558	51,946
United States	22	6,553	99,287	374,639
	22	25,388	623,556	685,095

The total amount of unmanufactured asbestos exported in *January-October 1979* was 1,334,061 short tons (1,210,232 metric tonnes), valued at C$534,043,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 5,048,000
Asbestos brake linings & facings	2,888,000
Asbestos-Cement building materials	13,514,000
Other basic asbestos products	7,609,000
	C$29,059,000

January-October 1978: Canadian exports of unmanufactured asbestos totaled 1,263,188 short tons (1,145,964 metric tonnes), valued at C$468,528,000; exports of manufactured asbestos products were valued at C$21,760,000.

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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 ASBESTOS

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 JANUARY 1, 1979

U.S. DOLLARS

Grade 4T Fiber	$ 591
Grade 5K Fiber	457
Grade 5R Fiber	388
Grade 6D Waste	284
Grade 7D Shorts	188
Grade 7M Shorts	108
Grade 7R Shorts	100
Hooker No. 1	1250
Hooker No. 2	700

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

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

AS OF JANUARY 1, 1980

	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

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

AS OF JULY 1, 1976

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

BRAZIL

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

AS OF SEPTEMBER 1979

	BRAZILIAN CRUZEIRO $
Grades 4T to 4Z asbestos cement fiber	$13015 to $14606
Grades 5K to 5R asbestos cement fiber	8005 to 10957
Grade 6D asbestos cement fiber	5850
Grade 7TF asbestos cement shorts	2311
Grade 8S shorts	1093



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1979 ANNUAL REPORTS

JAMES HARDIE INDUSTRIES LTD.

The James Hardie Group is one of Australia's largest manufacturing enterprises. It is predominantly a building products firm, making fiber-cement and plastic pipes, fiber-cement sheets, wall cladding, plumbing fittings and bathroom accessories. It also has related businesses such as wallpaper and furnishing fabrics. Hardie produces a significant share of brake blocks and linings used in Australia and is a major converter of paper and manufacturer of corrugated containers, cartons and stationery. The company makes and sells wrapping materials of all kinds and produces more envelopes than any other firm in South East Asia. The Hardie Group is Australia's biggest book publisher and film animator. It is a major marketer of records and cassettes and has substantial mail-order and part-work publishing businesses. It is a world leader in drip and trickle irrigation, with operations on every continent. The Group has manufacturing plants in the United States, Indonesia, Malaysia, Singapore and New Zealand. . . . For the year ended March 31, 1979, Hardie Group *sales* increased 65.1% from $206-million to $340-million and *profits* rose 31.3% from $16.4-million to $21.6-million. *Earnings* per share were 60.2¢ in 1979 compared with 53¢ in 1978. Excluding the contribution by Reed Consolidated Industries Ltd., acquired by Hardie in late 1978, the Hardie Group increased *profit* 17.1% to $19.2-million in 1979.

Fiber Cement Division—The activities of this division comprise the manufacture and marketing of building products and asbestos-cement pipes throughout Australia, the manufacture of prefabricated building kits and panels in Western Australia and the operation of a foundry in Tasmania. The principal operating company of the division is James Hardie & Coy. Pty. Ltd. . . . *Building Products* increased their percentage share in a market which declined 3.3% throughout Australia. In the export market, Asano Slate Company, Osaka, Japan, agreed to purchase Tilux, Colorbord and other Hardie materials for a three-year term. Negotiations to supply compressed sheets for the Aberdeen Tunnel project in Hong Kong are well advanced and the drive to increase exports to Papua New Guinea and the Pacific Island has continued successfully. . . . Sales volume of *asbestos-cement pipe* increased in Queensland although an overall 11% reduction from last year was noted. A decrease in large residential development and mining activity caused market contraction. Keen competition among pipe makers for major trunk mains construction cut profitability. The Immediate outlook, however, is bright. Several mining and power projects are due to begin and there will be a considerable requirement for pipes in a series of government-financed programs to desalinate the Murray River. . . . *Production Facilities*—Most of the division's factories operated below capacity but with improved productivity. The modernization of manufacturing processes continued and a program to recycle dust and wet waste has commenced at all factories. The modern plant at Moss Vale is now in operation and is capable of producing pipe up to a diameter of 750mm. In New Zealand, James Hardie & Coy. Pty. Ltd. maintained sales volume by increasing its share in a very difficult market. In Indonesia, P. T. James Hardie Indonesia and P. T. Harflex Asbes Semen increased sales volume of building products nearly 50%

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and of pipes, 42%. In Malaysia, United Asbestos Cement Berhad recorded excellent growth, showing increases in sales and profit of some 20%. A new pipe manufacturing unit coming into production will ensure that output of pressure pipe keeps pace with the strong local expansion due to current economic development programs of the Malaysian government. During the year the Hardie Group purchased part of Turner & Newall's share of the issued capital of United Asbestos Cement. The Hardie Group now owns 37% of UAC. J. H. Asbestos (U.K.) Ltd., a trading company in Hong Kong, received orders for roofing sheets and pipes supplied from various plants within the Hardie Group.

Friction Materials Division—Main activities of this division are the manufacture and marketing of brake linings and railway brake blocks. Adverse market conditions throughout a depressed year for the Australian automotive industry eroded the profit margins of Hardie-Ferodo Pty. Ltd., the manufacturing arm of the division. Sales, nevertheless, were slightly above 1978. The Better Brakes Organization encountered heavy competition in a dull market and although sales revenue was up, profit was down due to reduced margins. S. B. Industries (Sdn.) Berhad, a small company marketing friction materials in Malaysia, operated profitably. S.B. puts finishing touches to a limited range of imported drum brake linings. A new plant is being installed which will enable the factory to manufacture disc pads from pre-blended raw materials supplied by Hardie-Ferodo, Managers.

ASBESTOS STOCK QUOTATIONS

CLOSE—JANUARY 15, 1980

Abitibi Asbestos	C$1.01
Advocate Mines	C$2.10
Armstrong Cork	15⅞
Armst. Cork (pfd 3.75)	38½
Asarco	52¼
Asbestos Corporation	C$37.25
Bendix	55⅛
Bendix (pfd 3)	110
Carlisle	24⅞
Cassiar Asbestos	C$12.25
CertainTeed	15
Charter Conso.	pence 156
Colt Industries	46
Colt Ind. (pfd 1.60)	39⅞
Colt Ind. (pfd 4.25)	102¾
Conwest	C$8.375
GAF Corporation	10⅜
GAF (pfd 1.20)	14⅛
Genstar	23⅜
Gulf & Western	19⅜
G&W (pfd 2.50)	39½
G&W (pfd 3.87)	92¾
G&W (pfd 5.75)	66
IC Industries	23⅝
IC Ind. (pfd 3.50)	38⅛
Johns-Manville	24⅜
J-M (pfd 5.40)	54⅜
Kennecott Copper	41⅜
Lear Siegler	26⅞
Lear Siegler (pfd 2.25)	65½
McAdam Mining	C$.89
National Gypsum	22⅝
Pathfinder	C$.50
Porter, H. K. (pfd 5.50)	76⅞
Raybestos-Manhattan	24⅛
Rio Algom	C$36.125
Rio Algom (pfd 5.80)	Bid C$66.00 Asked C$73.00
Supradur	Bid 5; Asked 5¾
Union Carbide	45½
United Asbestos	C$5.875
Walter, Jim	30⅛
Walter, Jim (pfd 1)	9⅝
Walter, Jim (pfd 1.60)	32½
Woodsreef Minerals	C$.54

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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.

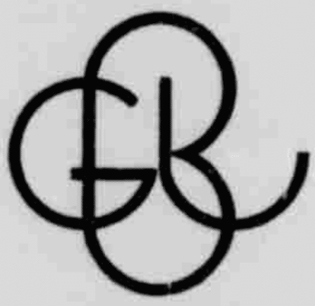
— Auxiliary machines for special sheet profiles.

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

— Special plants for preparation of wet and dry Asbestos.

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MEN ON THE MOVE

CAPCO/ASARCO INC.

The following appointments were announced by Cement Asbestos Products Company, Birmingham, Alabama, a subsidiary of Asarco Inc.—*I. Lee Taylor*, Vice President-Marketing; *William R. Perrell*, Vice President- Sales; *Carl B. Woodworth*, General Sales Manager. Mr. Taylor had been General Sales Manager and, most recently, Vice President-Sales. In his new post he will be responsible for the development of market analyses, new product studies, advertising and international sales. Mr. Perrell had been General Sales Manager and prior to that was a Territory Manager. His new duties include sales functions, pricing and coordination of plant production. Mr. Woodworth had been a Territory Manager at CAPCO, left the company, and then rejoined the firm last year.

CAPE INDUSTRIES LTD.

A. W. Fay was named Chairman of Don International Ltd. and Don International S.A. (Belgium), succeeding *F. P. Parkes* who remains a Non-Executive Director of both companies. . . . *John Copeman* was appointed Director and General Manager of the recently-restructured Don Research and Development Division. . . . *Christopher J. A. Colbeck* is now financial Director and Secretary for Cape Universal Claddings Ltd. He joined Cape in 1969 as a Management Accountant, was appointed Product Manager CUC in 1976 and Chief Accountant the next year. . . . *Dr. R. A. Paine* was named Chairman of Cape Insulation Ltd., in succession to *W. R. Doughty* who remains a Non-Executive Director.

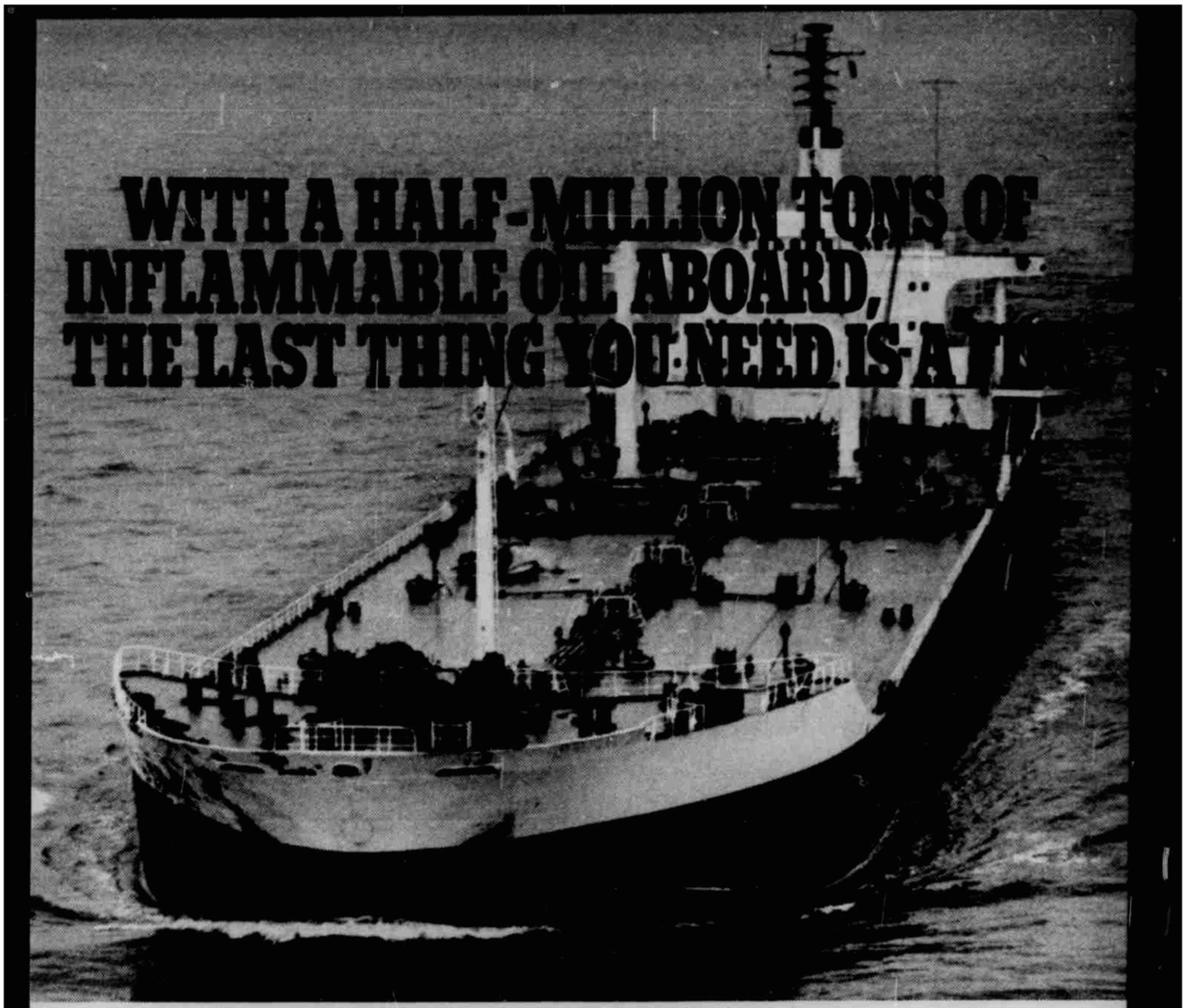
RAYBESTOS-MANHATTAN, INC.

Frederick J. Ross, formerly President and Chief Executive Officer of The Carborundum Company, was elected President of Raybestos-Manhattan, Inc. *Robert M. Gordon*, formerly R/M President, was named to the new position of Vice Chairman of the corporation. The R/M Board intends to elect Mr. Ross Chief Executive Officer at its organization meeting on April 1, 1980. *William S. Simpson*, current Chairman of the Board and Chief Executive Officer, and Mr. Gordon will continue in senior positions with R/M until their normal retirements in 1981. Mr. Ross joined Carborundum in 1957, was elected a Vice President in 1965, Group Vice President in 1969, a Director in 1971, and Executive Vice President and Chief Operating Officer in 1974.

SOUTHERN TEXTILE CORPORATION

Joseph A. Berry has been named Sales Service Representative at Southern Textile Corporation, Charlotte, North Carolina. He will assist field salesmen and their customers by expediting orders and providing product information. . . . *Larry E. Wood* was made Sales Representative in the New England Territory, responsible for customer service and sales of Southern's full line of non-asbestos industrial textiles and products. Mr. Wood had been Area Sales Representative in New England for E. I. du Pont de Nemours & Co., Inc.

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BIRTHDAY GREETINGS to . . .

Vaughan H. Tower, Export Sales Representative, Carey Canada Inc., East Broughton Station, Quebec, February 16.

H. Keith Conn, Director of Exploration, Mining Division, Johns-Manville Corporation, Denver, Colorado, March 16.

J. Gerry Foley, President, Albion AAP Inc., Montreal, Quebec, March 18.

Harry M. Hay, Manager, Fiber Development & Research, Johns-Manville Canada, Inc., Asbestos, Quebec, March 18.

J. Douglas Little, President & Chief Executive Officer, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, March 21.

Thomas C. Osborne, Vice President-Exploration, Asarco Inc., New York City, March 21.

R. K. Day, Deputy Chairman & Chief Executive, TAC Construction Materials Ltd., Trafford Park, Manchester, England, March 22.

Douglas O. Cooke, Director of Corporate Product Publicity & Special Projects, Johns-Manville Corporation, Denver, Colorado, March 23.

Edward A. Corbett, President, A & M Insulation Company, Chicago, Illinois, March 24.

Alvin P. Tiedemann, Vice President-Manufacturing, Raybestos-Manhattan Industrial Products Company, North Charleston, South Carolina, March 24.

Peter Buchholz, Sales Manager, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, March 26.

William A. Krivsky, a Senior Vice President, CertainTeed Corporation, Valley Forge, Pennsylvania, March 26.

K. E. Vitek, President, Scandura Inc., a subsidiary of BBA Group Ltd., Charlotte, North Carolina, March 26.

D. K. Macfarlane, Managing Director, James Hardie Industries Ltd., Sydney, New South Wales, Australia, March 27.

A. E. Alpine, Consultant for the Asbestos-Cement Pipe Industry, Boyertown, Pennsylvania, March 29.

Ross E. Sampson, Plant Group Manager and a Vice President, Johns-Manville Canada Inc., Asbestos, Quebec, March 31.

A. M. Phillips, Traffic Coordinator, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, April 1.

Grant V. Wilson, Jr., Secretary, Grant Wilson, Inc., Chicago, Illinois, April 1.

Francis H. May, Jr., Vice Chairman of the Board, Johns-Manville Corporation, Denver, Colorado, April 2.

Gordon A. Coats, President, Calaveras Asbestos Ltd., Copperopolis, California, April 3.

W. C. Thurber, Product Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, April 3.

Andre Gauthier, General Manager, National Mine Division, Lac d'Amiante du Quebec Ltd., Thetford Mines, Quebec, April 5.

James L. Petrick, a Sales Representative, Southern Textile Corporation, Matthews, North Carolina, April 7.

K. S. Andrews, a Director, Transvaal Consolidated Land and Exploration Co. Ltd., Johannesburg, Republic of South Africa, April 8.

A. C. Beguin, Manager of Operations, Chrysotile Corporation of Australia Pty. Ltd., Woodsreef, Barraba, New South Wales, Australia, April 8.

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Stuart Charbula, Executive Vice President, Hedman Mines Ltd., Timmins, Ontario, April 8.

Dr. Richard A. Kuntze, Vice President-Operations, Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, April 10.

F. G. Carter, Deputy Chairman & Joint Managing Director, Ferodo Ltd., Chapel-en-le-Frith, Derbyshire, England, April 11.

Henry B. Moreno, Senior Vice President, International Group, Johns-Manville Corporation, Denver, Colorado, April 11.

William I. Robinson, President, Hamilton Ohio Division, and a Corporate Vice President and a Director, Nicolet, Inc., Hamilton, Ohio, April 13.

J. Vermeer, Managing Director, Vermeer Agenturen B.V., Haarlem, Holland, April 13.

Obituary



P. W. C. GRIFFITH
1925-1980

Patrick Waldron Cobham Griffith passed away January 28, 1980, after a serious illness. He had been Chairman of *Turner & Newall Ltd.* from 1976 until he retired in October 1979. Mr. Griffith was an industrialist who combined personal vitality with a remarkable directness in all his dealings. During his short tenure as Chairman of Turner & Newall, the company, traditionally in the asbestos business, extended its interests into plastics and then chemicals, the latter when it acquired a controlling interest in Hunt Chemical.

Prior to beginning his business career, Mr. Griffith served as a pilot with the Fleet Air Arm, including active service in the Far East aboard HMS Victorious. As a racing driver after World War II, he competed in the Mille Miglia, Le Mans 24-hour and other long-distance sports car races and was a winner in the RAC Tourist Trophy and Goodwood 9-hour races.

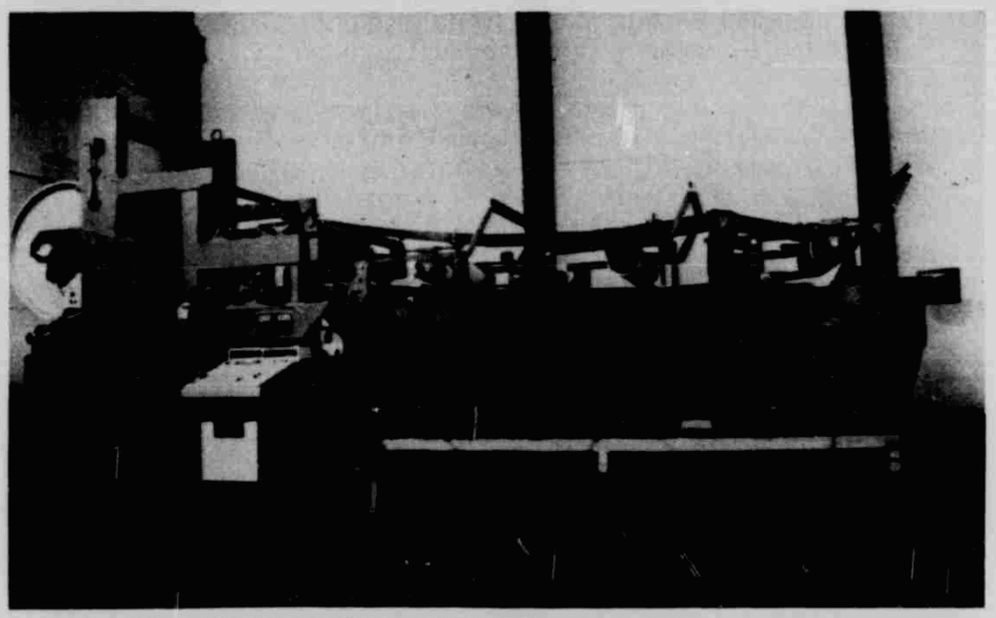
In 1946 Mr. Griffith joined the family business, i.e., *Engineering Components Ltd.*, manufacturer of gaskets, filtration and cork products. He became Chairman and Joint Managing Director of EC in 1968, two years after that company was acquired by Turner & Newall.

Mr. Griffith was Vice President of the Society of Motor Manufacturers and Traders Ltd. and a Past Chairman of its Accessory and Components Committee and Public Affairs Committee. He also had been a member of the Council of UKSATA and a Past President of the Comite de Liaison de la Construction d'Equipments et de Pieces Automobile (CLEPA). He was Junior Warden of the Worshipful Company of Coachmakers and Coach Harness Makers and a member of the Council of Manchester University Business School.

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British 1,550,443—Emission of free asbestos fibers from asbestos textile products is lessened by coating the product with an aqueous dispersion of sodium bentonite and drying it at a temperature of up to 200°C to form a well-bonded, water-absorptive coating with a clean appearance and little evidence of surface fibers; T. E. Crabtree & A. Heyhoe; assigned to BBA Group Ltd., August 15, 1979; 3 pages.

British 2,012,204—The friction member of a composite brake or clutch assembly consists of a mixture of 10-30% by weight of phenol-formaldehyde resin or the like and the remainder a suitable combination of asbestos fibers, metal powder, particles of fine wire and conventional fillers; the composite assembly is baked at a temperature of 120-175°C for a period of from 9-15 hours; J. E. Emmitt & J. R. Gregson; assigned to Hooker Chemicals & Plastics Corporation, July 25, 1979; 5 pages.

U.S. 4,171,405—To reduce the hemolytic activity of Chrysotile asbestos, the fibers are coated first with an aqueous solution of a chloride, sulfate or nitrate of an alkali metal or alkaline earth metal and then with an aqueous solution of a molybdate salt of sodium or potassium; P. A. Pezzoli; assigned to Dow Chemical Company, October 16, 1979; 7 pages.

U.S. 4,175,070—Friction linings having a uniform coefficient of friction up to a temperature of 500°C consist of a mixture of preferably 20-33% by weight of glass fibers and/or asbestos fibers, 18-34% of carbon or graphite powder, 7-24% of inorganic modifiers, 8-14% of a thermosetting phenolic resin, 4-22% of metal oxide or metal particles and up to 7% of organic modifiers; B. W. Klein & M. G. Jacko; assigned to Bendix Corporation, November 20, 1979; 10 pages.

U.S. 4,176,100—Durable, textured coatings are formed by spraying or trowelling onto a surface a mixture of preferably 16.6% of water, 6% of a glycol-surfactant mixture, 4.2% of asbestos, 1.6% of a coalescing agent, 1.7% of an oil-modified alkyd dispersion, 0.3% of a defoamer, 6.6% of acicular zinc oxide, 2.3% of titanium dioxide, 0.9% of chopped fiber glass, 0.4% of hydroexyethylcellulose, 28.4% of polyvinyl acetate resin and the remainder sand and ground feldspar; N. R. Rider; assigned to Kay Tex Products, Inc., November 27, 1979; 4 pages.

U.S. 4,176,115—Fire resistant construction panels are formed by shaping and curing a mixture of 30-70% by weight of non-inflammable inorganic materials such as asbestos fibers and expanded perlite and the balance melamine formaldehyde resin; S. Hartman & C. M. Sheridan; assigned to Champion International Corporation, November 27, 1979; 4 pages.

U.S. 4,180,433—To improve the filtration rate of asbestos-cement slurries formed from Chrysotile asbestos, the asbestos fibers are subjected to a controlled heat treatment in the temperature range of

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400-600°C for a period of up to 5 hours so as to make the fibers stiffer and more coherent without deleterious loss of water of crystallization or the diminishing of fiber strength; R. W. Glass & R. A. Kuntze; assigned to Ontario Research Foundation, December 25, 1979; 6 pages.

U.S. 4,180,449—The durability of a bonded asbestos diaphragm for use in brine electrolysis cells is improved by impregnating it with an ortho alkyl titanate and heating it so as to pyrolyze the organic titanate in-situ; H. R. Heikel; assigned to Dow Chemical Company, December 25, 1979; 7 pages.

VALUABLE BOOKS ON BUSINESS & PRODUCTS

EXCEPT WHERE NOTED TO THE CONTRARY, ORDERS FOR THE FOLLOWING MAY BE PLACED THROUGH ASBESTOS MAGAZINE. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY FEBRUARY 1980 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

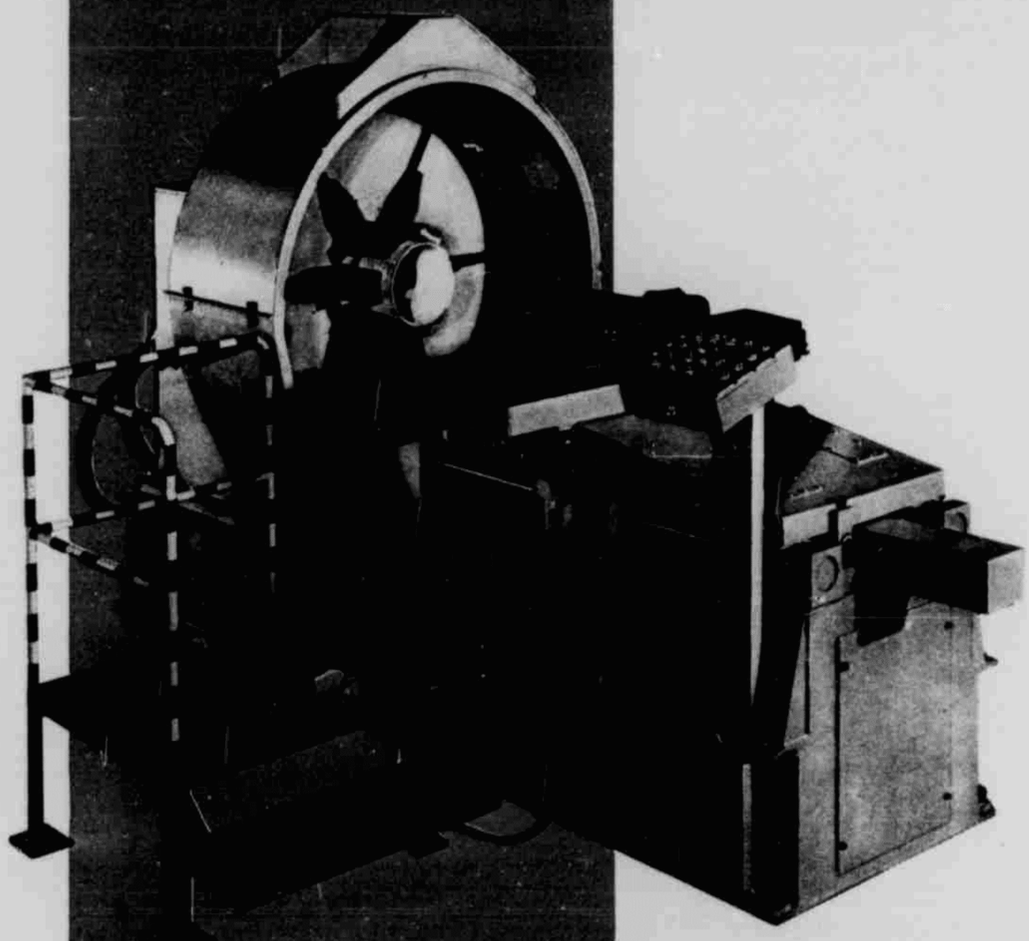
ABMEC BUYERS' GUIDE—Published by the Association of British Mining Equipment Companies; provides a convenient reference to suppliers of mining machinery; color-coded by language, i.e., English, French, German, Spanish; product groups covered are concerned with consultancy, prospecting and surveying, shaft sinking, tunneling and roadway drivage, extraction, drilling, roof supports, underground transport, hoisting and shaft furnishing, electrical, compressed air and hydraulic power, signals and communications, pumping, safety, illumination, ventilation, dust suppression, open pit and quarrying, surface transport and handling equipment, and mineral preparation and processing. [208 pages; available free from ABMEC, c/o Peat, Marwick, Mitchell & Co., P.O. Box 121, 301 Glossop Road, Sheffield, England S10 2HN]

TRANSMISSION ELECTRON MICROSCOPY OF MATERIALS—By G. Thomas & M. J. Goringe; comprehensive text deals with high-voltage electron microscopy scanning transmission electron microscopy and special applications of transmission electron microscopy to problems of composition and micro-structure; the authors employ a wide range of examples in representing current trends in materials science, engineering and research application; a separate laboratory course gives individual practical training in the methods of specimen preparation, instrumental technique and interpretative application of contrast and diffraction principles. [388 pages; John Wiley & Sons, Inc.; $24.00]

MANAGEMENT OF TEXTILE PRODUCTION—By A. Ormerod; an integrated approach to the problems of textile production; demonstrates the interdependence of the factors of production which a manager has at his disposal; provides a basis for decision-making at minimum risk; many of the examples given are based on actual factory situations within the author's experience; the five main sections of the book are titled Materials, Machines, Methods, Money, Men and New Projects. [275 pages; Butterworth Publishers, Inc.; $39.95, plus $1.00 postage to the United States/Canada/Mexico or $5.00 postage to All Other Countries]

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CONSULTANTS AND CONSULTING ORGANIZATIONS DIRECTORY—4th edition, edited by P. Wasserman & J. McLean; furnishes details on some 6,150 firms, individuals and organizations active in 135 special fields of consultation for business and industry; entries typically provide names, addresses, telephone numbers, principals, branch offices, descriptions of services and clients, and code numbers indicating areas of specialization. [1,136 pages; Gale Research Company; $95.00]

DESK BOOK OF FTC PRACTICE AND PROCEDURE—3rd edition, by E. S. Rockefeller, Esq.; revised to take account of the Magnuson-Moss Act and other legislative changes; discusses the Federal Trade Commission, access to records, restrictions on practice, investigations and information demands, compliance, preliminary court injunctions, adjudicative proceedings, rulemaking, judicial review and penalties for violation. [250 pages; Practising Law Institute; $30.00]

PART 33/1979 BOOK OF ASTM STANDARDS—Includes 115 ASTM standards categorized as textiles/fibers and zippers, i.e., asbestos textiles, bast and leaf fiber textiles, cotton fibers, glass textiles, general and manmade fibers, wool fibers, zippers, conditioning, definitions, identification/qualitative and quantitative analysis, sampling and testing machines. [882 pages; American Society for Testing and Materials; $28.00]

PART 16/1979 BOOK OF ASTM STANDARDS—Contains 118 current, new or revised ASTM standards concerned with chemical-resistant nonmetallic materials, vitrified clay and concrete pipe and tile, masonry mortars and units, asbestos-cement products and precast concrete products. [666 pages; American Society for Testing and Materials; $21.00]

TRADE NAMES DICTIONARY—2nd edition, two-volumes, edited by E. T. Crowley; alphabetically lists over 130,000 trade names, trademarks, brand names, product descriptions, manufacturers, importers, marketers and distributors; most of the trade names listed identify consumer-oriented products and services now available or in use. [907 pages: Gale Research Company; $85.00 per set]

CHRYSOTILE TEST MANUAL—Revision I of the Chrysotile Asbestos Test Manual, 3rd edition, is now available, free of charge, from the Quebec Asbestos Mining Association, 580 Grande Allee East, Suite 320, Quebec, P.Q., Canada G1R 2K2. The basic manual provides 34 standard methods for testing the physical and chemical properties of Chrysotile fiber.

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CALENDAR OF EVENTS

THE CHANGING STRUCTURE OF THE CANADIAN MINERAL INDUSTRIES—7th Policy Discussion Seminar of the Centre for Resource Studies; Queen's University, Kingston, Ontario, *March 13-14.*

CONSTRUCTION INDUSTRY NATIONAL LEGISLATIVE CONFERENCE—Sponsored by American Subcontractors Association; Sheraton Washington Hotel, Washington, D.C., *March 16-18.*

INDUSTRIAL TOXICOLOGY AND OCCUPATIONAL CONTROL OF HAZARDOUS MATERIALS—Seminar sponsored by Vanderbilt University; Hyatt Regency, Nashville, Tennessee, *March 17-21.*

AMERICAN NATIONAL STANDARDS INSTITUTE—Evaluation Update Meeting on the Trade Agreements Act of 1979; International Inn, Washington, D.C., *March 18.*

NATIONAL ASSOCIATION OF MANUFACTURERS—Washington Spring Conference featuring a "Dialogue on Economic Policy: The Politicians and the Industrialists"; Sheraton Washington Hotel, Washington, D.C., *March 19-21.*

EROSION OF MATERIALS—Conference of The Engineering Foundation; Asilomar Conference Grounds, Pacific Grove, California, *March 23-28.*

THE TECHNICAL BASIS FOR A SIZE SPECIFIC PARTICULATE STANDARD—Specialty Conference of Air Pollution Control Association; Radisson Ferncroft Hotel, Danvers (near Boston), Massachusetts, *March 24-25.*

NATIONAL DESIGN ENGINEERING/PLANT ENGINEERING AND MAINTENANCE SHOWS AND CONFERENCES—Produced by Clapp & Poliak, Inc.; McCormick Place, Chicago, Illinois, *March 24-27.*

AIR POLLUTION CONTROL ASSOCIATION—8th Government Affairs Seminar; International Inn, Washington, D.C., *March 26-27.*

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION—Symposium devoted to "Risk assessment in the 80's," sponsored by the Northern California Section of AIHA; Kaiser Center, Oakland, California, *March 28.*

TEXTILE RESEARCH INSTITUTE—50th Annual Research and Technology Conference; Hyatt Regency, Washington, D.C., *April 1-3.*

PROCESS EFFICIENCY THROUGH INSTRUMENTATION—Joint Spring Symposium and Exhibit of Instrument Society of America, New Jersey Section, Chemical & Petroleum Industries Division and Process Measurement and Control Division; Meadowlands Hilton Hotel, Secaucas, New Jersey, *April 1-3.*

8TH INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM—Sponsored by Association of Exploration Geochemists, Section Economic Geology Research of the Society of German Mining and Metallurgical Engineers, and the Geochemical Section of the German Mineralogical Society; Hanover, Germany, *April 10-15.*

BAUMA 1980—International Trade Fair for construction equipment and building material machines; Fair Grounds, Munich, Germany, *April 10-16.*

PNEUMOTRANSPORT 1980—5th International Conference on the pneumatic transport of solids in pipes; Loughborough, England, *April 16-18.*

IDENTIFICATION OF ASBESTOS—Course directed by McCrone Research Institute Ltd.; Holiday Inn, Swiss Cottage, London, England, *April 17-18.*

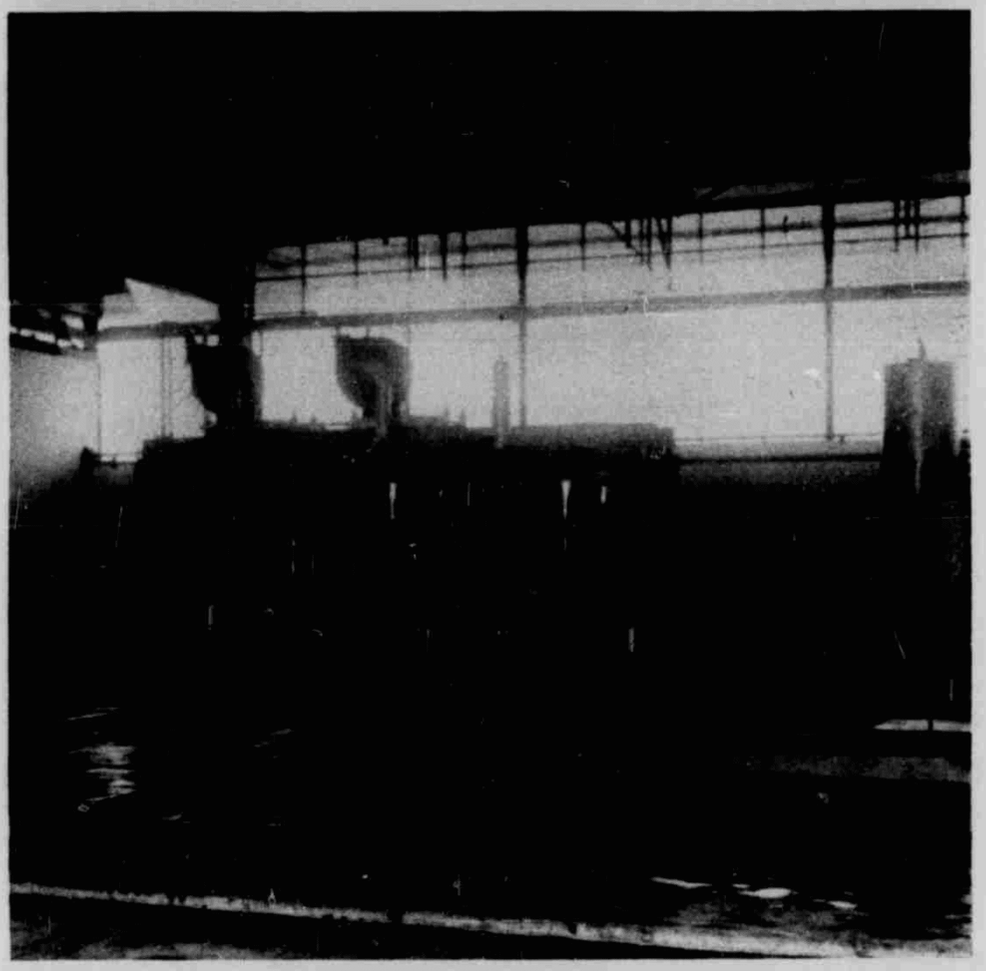
ASBESTOS—4th International Conference; will cover economic geology, geology and mineralogy, chemistry and physics, mining, recovery and refining, industrial uses, quality control and environmental aspects; Torino, Italy, *May 26-30.*

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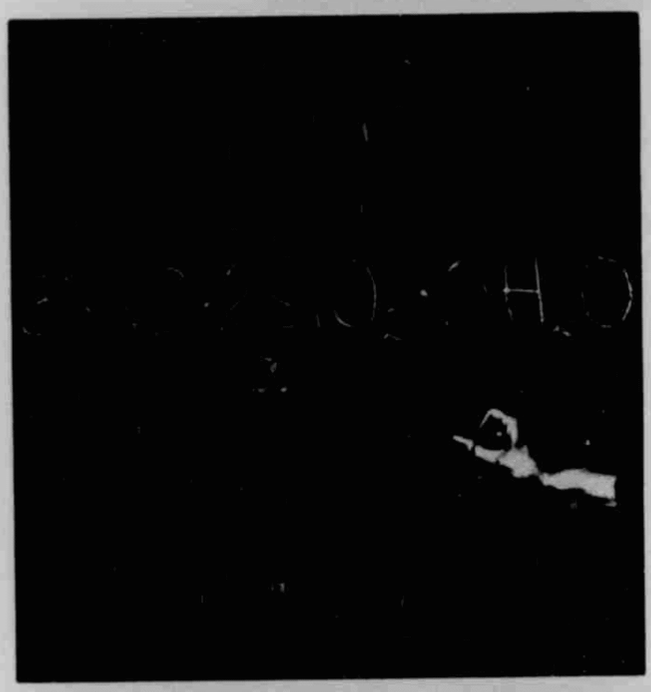
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