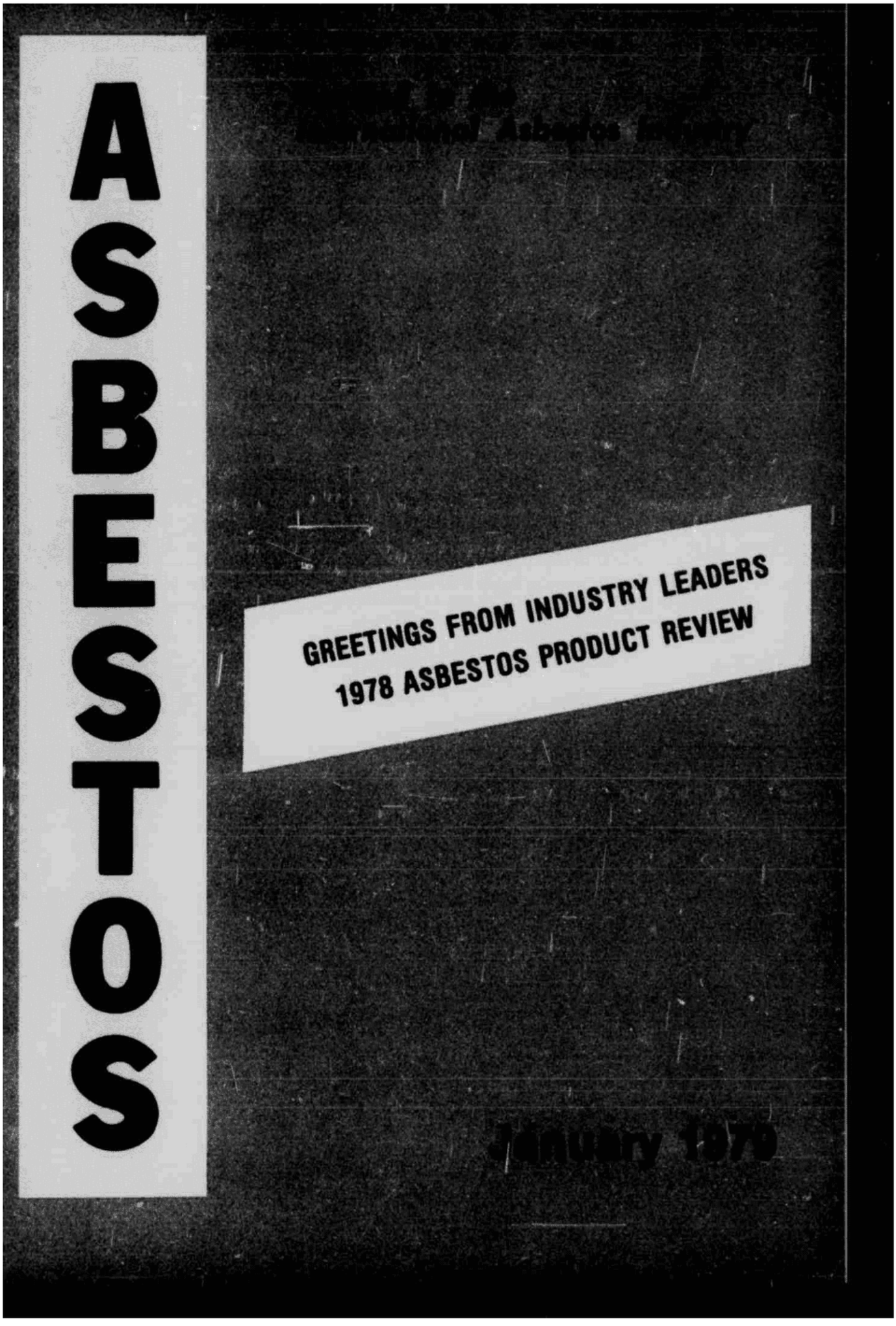


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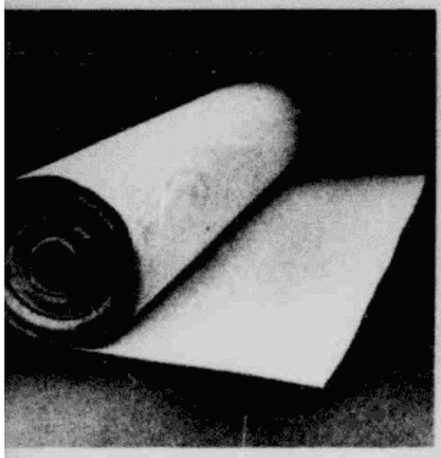
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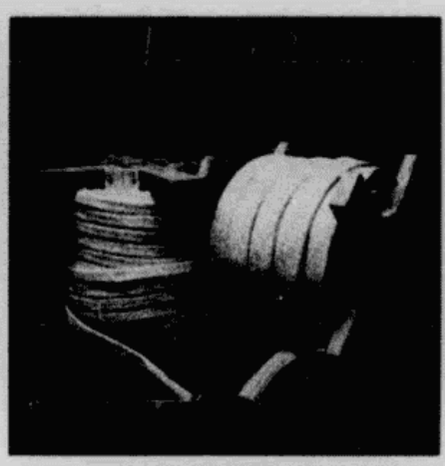
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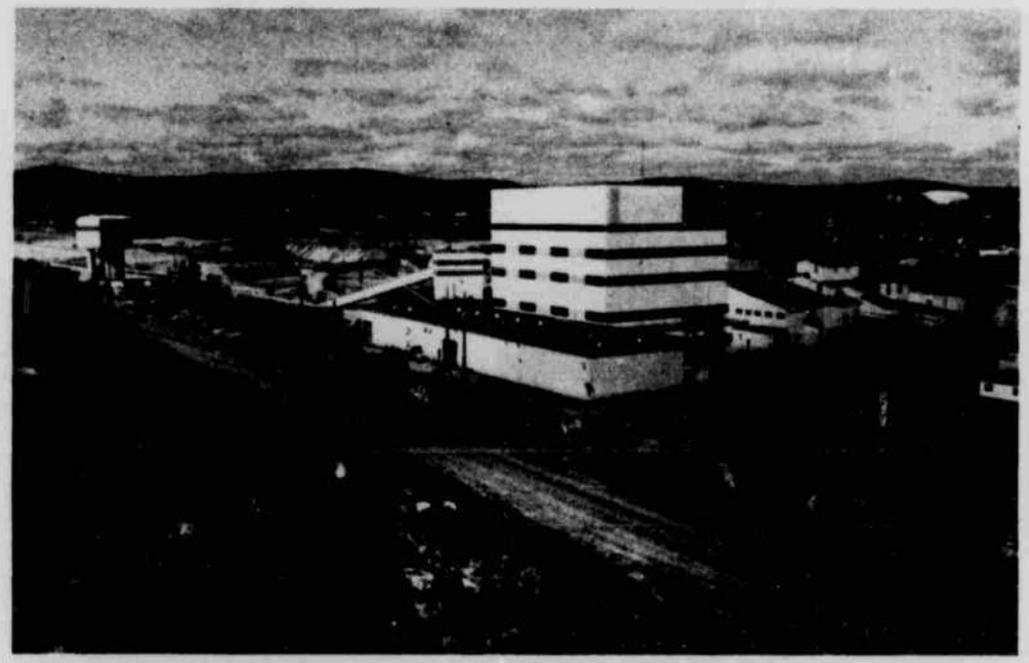


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ASBESTOS

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GREETINGS FROM INDUSTRY LEADERS – 1979

ASBESTOS CORPORATION LTD.

M. E. Taschereau, President & Chief Executive Officer

1978 has been an interesting year—both challenging and fun. Markets were somewhat firmer than anticipated at the beginning of the year. Several countries sharply increased their production of asbestos products and a few mines had production interruptions. ACL had no difficulty meeting all of our customers' requirements and we look forward to an uninterrupted flow of fiber next year.

The possible hazards associated with the manufacture and use of asbestos-containing products came under severe scrutiny, primarily in Western Europe. We are confident that the excellent qualities of asbestos products and the unquestionably safe procedures for producing and using these products will continue to be increasingly recognized and appreciated throughout the world.

It is a pleasure on behalf of Asbestos Corporation to extend to our friends in the Asbestos Industry our very best wishes for a happy and successful New Year.

BBA GROUP LTD.

Michael Pearson, Chairman

1978 brought little improvement in the general state of world trade, and our asbestos based operations did not show much growth. Environmental problems continued to affect us, especially the continued uncertainty about future legislation in the United Kingdom. This uncertainty should be resolved early in 1979, when the Advisory Committee on Asbestos makes its final report.

The substitution of alternative materials for asbestos has, in fact, so far had only a limited effect on world-wide demand. Our efforts to ensure the safety of users of our products have continued.

From BBA Group Ltd., I wish our many friends in the Asbestos Industry a Prosperous New Year.

CALAVERAS ASBESTOS LTD.

Gordon A. Coats, President

The year 1978 started out for us quite slowly as California experienced a most atypical winter season. 1976 and 1977 were drought years which were more than made up for by heavy rains and snows in our valleys and mountains during the winter of '78.

As the year comes to a close we are pleased to realize that 1978

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overall was another good year for Calaveras. Energy costs and environmental considerations impacted heavily on our earnings. We see no let-up in these areas. We are also concerned with the training provisions of the Federal Mine Safety and Health Act of 1977 as regards additional non-productive costs and disruption of the normal working routine.

Many foreign visitors responded to our always open invitation to visit Calaveras. It was my pleasure to visit our wonderful friends in South Africa, as well as customers in the Orient and the United States.

We at Calaveras are encouraged by the excellent progress of our Industry, and enter 1979 with an optimistic outlook.

CAPE INDUSTRIES LTD.

R. H. Dent, Chairman

Once again I am glad to have the opportunity of extending my best wishes for the New Year to all friends of Cape Industries throughout the world.

The past year did not bring the recovery in the construction industry that was hoped for, and even in the strongest economies concern exists about industrial growth and employment. While this has had its effect on the Asbestos Industry, the ever-increasing need to conserve the energy resources of the world and to improve the quality of life of those in the emerging nations will surely steadily increase the demand for this unique material. Fears of health hazards are often grossly exaggerated, and for many products dust can be safely controlled within prescribed limits.

When the political situations at present affecting the world economy become more settled, the outlook for the Asbestos Industry will, I am sure, be seen to be greatly improved.

CAREY-CANADIAN MINES, LTD.

M. Prus, President & General Manager

Greetings and best wishes to the Asbestos Industry for the New Year.

We sincerely regret the problems and inconveniences suffered by many of you during our strike this past year. Because of your fine loyalty and understanding we have recovered from our work stoppage and we expect to have a very good year during 1979.

Our ventilation construction program is nearing completion and we are meeting present occupational and environmental standards. For environmental control outside of our mill we are in the process of equipping ourselves to switch from conveyor to trucks to move our mill tailings to the dump.

Another project that is nearing completion is a new fluid-bed dryer.

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This new FMC dryer will give us the additional capacity which we foresee we will need for the next twenty years.

At the present time we are opening up our A zone pit which will replace our B zone, which has been exhausted. Ore from the A zone will allow us to continue to blend with C zone ore in order to provide the product mixes dictated by the ever-changing market demand. For example, we expect the Short fiber market to decrease and the Medium and Long fiber markets to increase during the next couple of years.

CASSIAR ASBESTOS CORPORATION LTD.

N. Gritzuk, Chairman of the Board

Cassiar Asbestos Corporation wishes its many friends throughout the Industry a happy and prosperous 1979.

During 1978 the new mill air system was brought on line, which, coupled with ongoing modernization of the mill circuits has resulted in improved environmental conditions and better control of fiber quality.

Collective Agreement negotiations at Cassiar resulted in a strike in September and the mine is presently shut down. We regret any inconveniences this may be causing our customers. We are sure that 1979 will be back to normal.

The Clinton Creek operation was shut down in August of this year. It was a very sad occasion for Cassiar and its many faithful employees and customers.

At the end of October 1978 Mr. Peter Steen, President and Chief Executive Officer, resigned to accept an appointment with Inspiration Consolidated Copper Company, of Arizona. We were sorry to see him leave.

Mr. J. Douglas Little has been appointed President and Chief Executive Officer, effective January 1, 1979.

CERTAINTEED CORPORATION

W. A. Krivsky, Senior Vice President

CertainTeed Corporation wishes the industry and ASBESTOS Magazine a prosperous and happy 1979.

The activity level during 1978 for asbestos-cement pipe continued to be excellent. Longer range, we are all concerned about emotional reactions to the generic problem of asbestos potentially affecting the legitimate uses of the material under controlled conditions. We believe that it is extremely important that the Industry continue to publicize the benefits of the material and its adequate methods of health control in many applications. We all recognize that in most activities there is no such thing as zero risk and we must guard against irresponsible actions in that direction concerning asbestos. We remain convinced that there

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is an ethical as well as economic justification for asbestos products which dictates that such products should be aggressively promoted.

FRENZELIT ASBESTWERKE

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

We at Frenzelit Asbestwerke are delighted to take this opportunity of greeting our customers, suppliers and friends throughout the world and extending to them our best wishes for the New Year.

We are resolved to resist pressure on prices in the Asbestos Industry and look forward confidently to providing products of the finest quality and a service second to none, in 1979 and in the years ahead, in all the fields of application in which our reputation is established.

JAMES HARDIE ASBESTOS LTD.

J. B. Reid, Chairman

Perhaps 1978 is a good year to remind ourselves and others of the importance, perhaps even the necessity, of asbestos in the day-to-day things we take for granted. Others do not.

New construction in the housing industry is still at a fairly low level but renovations and extensions continue to provide good opportunities for business. Water supply and sewerage which are dependent upon availability of government funds are relatively static. In general terms, while market conditions are quiet there is optimism about future growth in the next 12 to 18 months.

Off shore in Indonesia, Malaysia and New Zealand, consumption and the financial rewards for our efforts have been good.

The Hardie-Ferodo 1000 (km) race for stock automobiles has joined the ranks of world events in motor racing and was not only enjoyed by over 50,000 people at Bathurst but was viewed by four-million Australians on television and relayed by satellite to the United States and Japan.

Against this background of confidence in the role of asbestos fiber in asbestos-cement and friction material products, James Hardie Asbestos Ltd. has acquired 80% of Reed Consolidated Industries Ltd. and has offered to buy the public shareholding at a total cost of $65-million. The Reed company is a leader in a wide range of building products and plastic pipe and fittings which complement our existing activities. In addition, it is a major supplier of paper products and containers and has a growing range of consumer products.

As our friends in the asbestos cement industry know, we retain our enthusiasm for the things asbestos can do for the communities we supply. This new acquisition extends the products we have to offer.

To our old friends and our newly-won friends, we send best wishes for a happy and more enjoyable 1979.

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JOHNS-MANVILLE CORPORATION

J. A. McKinney, President & Chief Executive Officer

On the dawn of a new year, all of us in Johns-Manville join in extending to our friends in the Asbestos Industry throughout the world, our warmest greetings for the Holiday Season and our best wishes for success and prosperity in 1979. To our many customers, we send our sincere thanks for their support and confidence in 1978.

No business comes easily these days, and the Asbestos Industry has had its share of challenges for a number of years. The past year was no exception, and we are not being complacent in preparing for the future. We are encouraged by the responsible manner in which the Asbestos Industry is responding everywhere to the health issue. The demand for basic materials containing locked-in asbestos continues to hold its share in the market place, thereby underlining its intrinsic utility and economic advantage in modern society.

For the safety and protection of all asbestos workers, we urge industry to discourage cigarette smoking by employees exposed to asbestos.

No one knows what 1979 will bring us, but our Industry is strong and mature and we believe all of us can share in the opportunities of the coming year. Happy New Year.

LAC D'AMIANTE DU QUEBEC, LTEE (LAQ)

Michael J. Messel, President

It is with pleasure that we again extend through ASBESTOS our warmest greetings for 1979 to our friends and customers in the Asbestos Industry.

While the business volume for asbestos fibers was good, the Industry has had to face many uncertainties and problems throughout the world due to economics, costly environmental problems and, in many instances, the threat from substitute products.

The Asbestos Industry has had to seek out new markets, especially in the developing countries.

A collective effort is required if the future of our Industry is to survive profitably and the governments involved must understand the problems before imposing onerous regulations.

Best wishes to all.

NICOLET, INC.

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

The consolidation of manufacturing operations at two Nicolet plants will be accomplished within the second quarter of 1979. This step should effect economies and should improve product quality and

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service by transferring production to the most modern and efficient manufacturing equipment available within the Corporation. While the ultimate market impact of government regulation of asbestos exposures and of media treatment of asbestos health hazards remains uncertain, Nicolet intends to serve that market with competence and enthusiasm whatever the change in its size or character.

We are certain that our customers, suppliers and competitors join us in the hope that 1979 will clarify our future and permit us to develop our long-range plans with greater confidence.

RAYBESTOS-MANHATTAN, INC.

William S. Simpson, Chairman

Last year in this message I said "challenge brings out the best in us." Surely 1978 has given all of us many challenges and there is no indication that they will be lessening in the near future. Inflation has become worse, bringing about wage and price guidelines. The government regulatory process continues to roll on, adding more problems. New fibers to replace asbestos are still being sought although in many instances there does not appear to be adequate substitutes.

These and other factors cause us to view 1979 as another year of major challenges. Our Industry is in a state of change and we intend to continue to play a leading role of supplier to those industries we serve by meeting these challenges. It is our hope that the economic climate will remain strong despite so many negative factors influencing it.

We extend Season's Greetings from Raybestos-Manhattan.

SOUTHERN TEXTILE CORPORATION

E. C. Bratt, President

Southern Asbestos Company introduced a complete line of non-asbestos products, cloth, tape, rope, yarn and felts, during December of 1978. In keeping with the changing nature of our business, the Board of Directors voted to amend our charter by changing the company name to Southern Textile Corporation effective January 1, 1979. We will continue to market a complete line of asbestos textiles for the various markets we serve.

With inflation high, energy in near crisis and gloomy predictions of recession, 1979 promises to be an interesting year. We expect it to be a good year despite the problems.

A happy and prosperous New Year to all.

TURNER & NEWALL LTD.

Patrick Griffith, Chairman

I remain cautiously optimistic about the world's demand for fiber. T&N is continuing to invest in its mining activities, as well as in its man-

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ufacturing plants around the world.

We are well equipped to face the challenges of 1979 and look forward to cooperating with all our friends in tackling the difficulties which beset us.

A prosperous New Year to everyone.

UNION CARBIDE CORPORATION

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

It is my pleasure to use ASBESTOS Magazine to extend Season's Greetings to all of our friends in the Asbestos Industry, with a special thanks to our customers.

1978 was a good year for "Calidria" asbestos and we look forward to a successful 1979. We appreciate the patience of our customers during the period of short supply. We do not anticipate a similar situation this year. A gradual improvement in the economy is expected and we must continue to work together for the stabilization of government regulatory controls. In October 1978, the management of our asbestos business was transferred from Mr. W. C. Thurber to Dr. F. J. Shortsleeve, a Vice President of the Metals Division.

Although our pelletized products help lower dusting, we will continue to search for better ways to reduce dust, such as modified product forms and better packaging. We will also make every effort to improve the health and safety of our employees.

Best wishes to all of you for a prosperous 1979!

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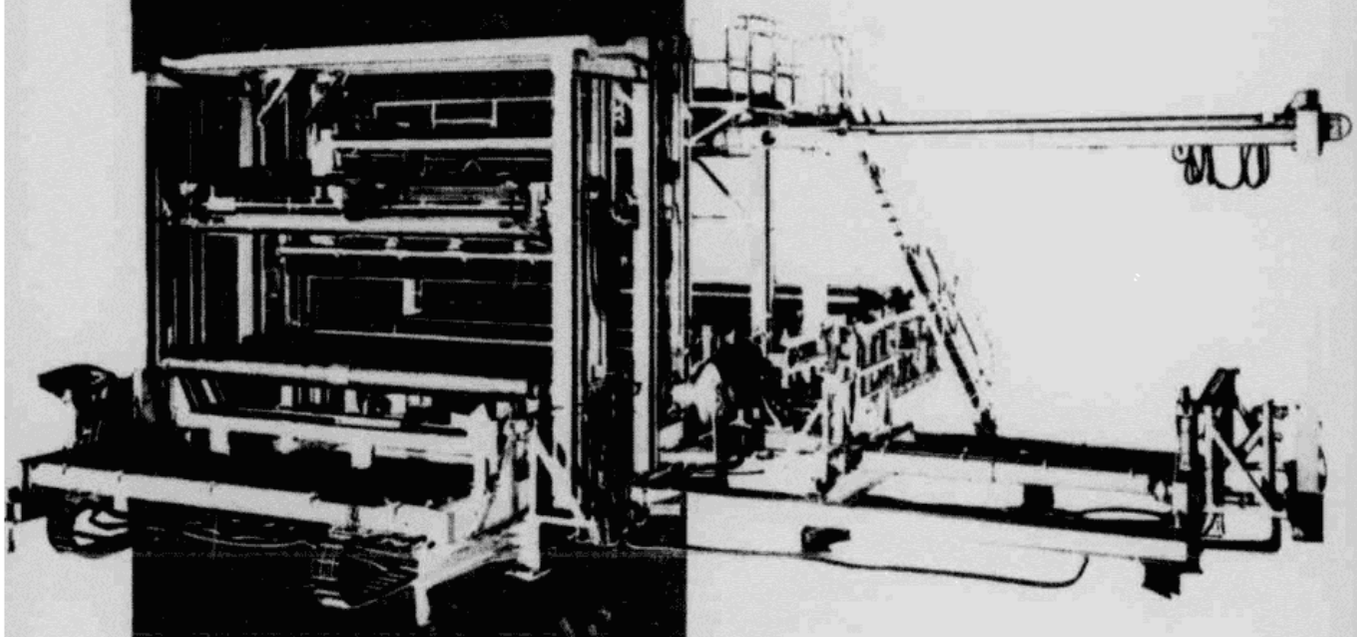
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ANNUAL INTERNATIONAL REVIEW—1978

PART III: THE ASBESTOS PRODUCTS INDUSTRY

ASBESTOS IS VITAL

Asbestos continues to be used in a vast amount of materials and products for several applications because of its many inherent qualities. It is inert, incombustible, nonflammable, durable, dimensionally and thermally stable and it has high tensile strength. It is resistant to heat, smoke, corrosion, cracking, freezing and thawing, humidity, mildew and acids and it has good insulating capabilities and sound-proofing properties. The use of asbestos in cement prevents rainwater penetration while allowing water evaporation. Because of its resistance to extreme heat and its preventing flame spread, asbestos has, over the years, saved countless lives and reduced material losses due to fire. Asbestos textiles, for instance, which contain anywhere from 75% to 99% asbestos, resist heat at temperatures ranging from 400F (200C) to 900F (480C). When comparing the ratio of thickness vs. resistance in asbestos-cement products, asbestos cement is a most effective material. The Quebec Asbestos Mining Association (QAMA) reports that the impact of a two-pound steel ball with a diameter of over two inches, dropped from a height of eight feet, does not leave a mark on a half-inch-thick, asbestos-cement sheet. Also, the aesthetic qualities of asbestos-cement materials should not be overlooked. According to QAMA, with today's casting techniques it is possible to create a multitude of forms and textures to meet the requirements of architects and builders.

Of the some 6-million tons of asbestos produced in the world, about 70% (or 4-million tons) is used in the manufacture of asbestos-cement products, of which 67% is consumed in Europe, 17% in the United States and 16% in other countries, notably Japan and the Middle East. Other applications are in woven and molded friction materials, coatings and compounds, packings and gaskets, papers and felts, thermal and electrical insulation, textiles, vinyl-asbestos tiles and plastics. Among the asbestos-cement products are acoustic ceiling tiles, shingles, flat and corrugated sheets, boards, window panels, curtain walls, flooring and pipes.

U.S. PRODUCT IMPORTS

The value of asbestos-based materials imported into the United States continues upward, recording an increase of 3.2% for the year ended August 1978. Total values for the past five years to August were $30,598,414 in 1978, $29,637,523 in 1977, $19,984,210 in 1976, $24,227,826 in 1975 and $18,360,227 in 1974. Comparing quantities in the latest year with the prior annual period, the U.S. imported 36.3% more asbestos yarn, cloth and tape; 23.5% more asbestos-cement pipes, tubes and fittings; and 50.6% less of other asbestos-cement products. Imports of other asbestos products were 15.8% higher in value.

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U.S. IMPORTS OF ASBESTOS YARN, CLOTH & TAPE

By order of importance, sources in 1978 were Canada, Mexico, Taiwan, the United Kingdom, Japan, West Germany, Brazil, Korea, Spain, Venezuela, France, Italy, Greece, Denmark, Belgium and Norway.

Year to August 1978—10,450,344 lbs. valued at $16,589,044
Year to August 1977— 7,666,978 lbs. valued at $14,784,257
Year to August 1976— 6,876,990 lbs. valued at $ 9,952,008
Year to August 1975— 8,346,483 lbs. valued at $11,140,270
Year to August 1974— 8,227,759 lbs. valued at $ 7,211,755

U.S. IMPORTS OF ASBESTOS-CEMENT PIPES, TUBES & FITTINGS

By order of importance, sources in 1978 were Mexico, the United Kingdom, Canada and West Germany.

Year to August 1978—20,033,092 lbs. valued at $2,349,425
Year to August 1977—16,215,625 lbs. valued at $1,724,187
Year to August 1976— 9,192,970 lbs. valued at $ 911,021
Year to August 1975—16,125,671 lbs. valued at $1,466,765
Year to August 1974—13,243,692 lbs. valued at $ 889,065

U.S. IMPORTS OF OTHER ASBESTOS-CEMENT PRODUCTS

By order of importance, sources in 1978 were Canada, Belgium, Mexico, West Germany, Costa Rica, Japan, Colombia, Nicaragua, the United Kingdom and Australia.

Year to August 1978—22,350,071 lbs. valued at $4,693,368
Year to August 1977—45,223,782 lbs. valued at $7,112,457
Year to August 1976—22,882,933 lbs. valued at $3,610,490
Year to August 1975—43,426,447 lbs. valued at $6,065,923
Year to August 1974—48,832,297 lbs. valued at $6,074,241

U.S. IMPORTS OF OTHER ASBESTOS ARTICLES

By order of importance, sources in 1978 were Canada, Japan, the United Kingdom, Brazil, West Germany, Mexico, Belgium, Yugoslavia, France, Sweden, Norway, Italy, Switzerland, Austria, Guatemala, Spain, Denmark, Finland and the Philippines.

Year to August 1978—valued at $6,966,577
Year to August 1977—valued at $6,016,622
Year to August 1976—valued at $5,510,691
Year to August 1975—valued at $5,554,868
Year to August 1974—valued at $4,185,166

U.S. PRODUCT EXPORTS

The total value of all asbestos-containing materials exported from the United States for the year ended August 1978 rose 37% over the prior year, i.e., $103,997,594 in 1978 vs. $75,912,352 in 1977. Values for prior years were $57,089,565 in 1976, $62,478,339 in 1975 and $53,027,036 in 1974. Quantities of asbestos-cement products decreased 1.9%, gaskets and packings rose 67.1%, textiles were down 37.5%, brake linings dropped 4.1% and clutch facings and linings were up 60%. Some of these percentages are estimated due to product reclassification by the Bureau of the Census, U.S. Department of Commerce, as of January 1, 1978.

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U.S. EXPORTS OF VARIOUS ASBESTOS-CONTAINING PRODUCTS

Asbestos-Cement Products—56,908,826 lbs. valued at $15,346,292 for the year ended August 1978 compared with 58,015,001 lbs. valued at $14,144,486 the prior year. Earlier quantities were 53,456,671 lbs. in 1976, 73,536,492 lbs. in 1975 and 71,960,099 lbs. in 1974. Primary destinations in 1978 were Saudi Arabia, West Germany, Canada, Italy, Mexico, the trust Territory of the Pacific Islands, Jordan, Nigeria, Iceland, Algeria, Japan, United Arab Emirates, Australia, the Netherland Antilles, Austria, Venezuela and Sweden.

Gaskets, Packings & Seals—10,423,867 lbs. valued at $15,098,633 for the year ended August 1978, primarily to Ireland, Saudi Arabia, Canada, Mexico, the USSR, Colombia, Belgium, Venezuela and Italy. The quantity and value for the year ended August 1977 for gaskets and packings were 5,953,116 lbs. and $14,364,621. Prior amounts were 4,623,273 lbs. in 1976, 6,054,573 lbs. in 1975 and 6,616,871 lbs. in 1974.

Asbestos Yarn, Cloth & Tape—10,690,682 lbs. valued at $8,469,029 for the latest year compared with 17,108,562 lbs. valued at $10,749,851 for the year to August 1977. Prior export totals were 16,542,879 lbs. in 1976, 12,345,006 lbs. in 1975 and 18,027,429 lbs. in 1974. Primary destinations in 1978 were Mexico, Canada, Australia, Iran, Ecuador, Saudi Arabia and France.

Brake Linings & Disc Brake Pads—As of January 1, 1978, the Census Bureau added disc brake pads to the category for brake linings but ceased giving quantities, thereby making it impossible to compare current and past statistics. Based on data given for the last four months of 1977, this Magazine estimates that 12,423,123 lbs. of *brake linings* valued at $13,001,739 were exported in the year ended August 1978. This compares with the prior like period which showed a quantity of 12,955,548 lbs. and a value of $12,913,930. Past quantities of brake linings exported from the U.S. were 11,337,356 lbs. in 1976, 10,398,901 lbs. in 1975 and 12,051,842 lbs. in 1974. The value of *brake linings and disc brake pads* exported in the latest year is estimated at $41,480,113. Primary destinations in the year to August 1978 were Canada, Mexico, Venezuela, the Netherlands, Iran, Australia, the United Kingdom, the Republic of South Africa, Saudi Arabia, Chile and Israel.

Clutch Facings & Linings— Again, due to the Census Bureau dropping quantities for this category at the beginning of 1978, we can only estimate that for the year ended August 1978 the U.S. exported 1,561,269 pieces valued at $2,761,746. Since the Bureau gives $8,404,885 as the value for the latest period, we can only assume this product category now includes materials which were not covered in the past. The figures for the prior year were 975,698 pieces valued at $1,913,978. Past quantities were 893,562 pieces in 1976, 1,947,989 pieces in 1975 and 2,462,821 pieces in 1974. Primary destinations in 1978 were Canada, Sweden, West Germany, the United Kingdom, Mexico, Venezuela and Australia.

Asbestos Insulation—Value was $4,997,775 for the twelve months to August 1978, 7.6% lower than the $5,405,819 recorded a year earlier. Primary destinations in 1978 were Canada, Saudi Arabia, Alberia, Morocco, Nigeria, the Netherland Antilles, Egypt, Singapore, Australia, Korea, Taiwan, Venezuela and Japan.

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CANADA PRODUCT EXPORTS

Healthy increases were again recorded for the various asbestos-based products exported from Canada. For the year ended August 1978, the total value of asbestos product exports was C$27,562,000, 41% higher than the same 12-month period a year earlier. Prior total values were $19,550,000 in 1977, $15,107,000 in 1976, $14,631,273 in 1975 and $10,541,000 in 1974. The United States accounted for 54.5% of Canada's exports of asbestos-containing products.

CANADA'S EXPORTS OF VARIOUS ASBESTOS-CONTAINING PRODUCTS

Asbestos Cloth, Dryer Felts & Sheets—$2,832,000 in 1978 (up 72.1%) compared with $1,646,000 in 1977, $2,093,000 in 1976, $2,881,091 in 1975 and $2,710,000 in 1974. The United States accounted for 66% of Canada's exports of products in this category in the latest year.

Asbestos Brake Linings & Facings—$3,369,000 in 1978 (up 24.1%) compared with $2,715,000 in 1977, $1,457,000 in 1976, $1,963,636 in 1975 and $1,112,000 in 1974. The primary destination was again the United States (54%).

Asbestos-Cement Building Materials—$15,476,000 in 1978 (up 43.8%) compared with $10,763,000 in 1977, $8,514,000 in 1976, $6,437,455 in 1975 and $3,381,000 in 1974. The largest consumer for this product class was the United States (51%).

Other Basic Asbestos Products—$5,885,000 in 1978 (up 33%) compared with $4,426,000 in 1977, $3,043,000 in 1976, $3,349,091 in 1975 and $3,338,000 in 1974. Following the pattern, the United States accounted for 58% of the product exports in this category.

CANADA PRODUCT IMPORTS

Calculations based on information published by Statistics Canada indicate that Canada imported $24.5-million worth of asbestos-based products in the year ended June 1978, 13.7% more than for the year ended June 1977, 14.5% higher than in 1976, 7.2% below that imported in 1975 and 25.5% more than in 1974.

VALUE OF CANADIAN IMPORTS OF MANUFACTURED ASBESTOS PRODUCTS (C$'000)

	YEAR TO JUNE 1978	YEAR TO JUNE 1977	YEAR TO JUNE 1976	YEAR TO JUNE 1975	YEAR TO JUNE 1974
Vinyl-Asbestos Floor & Wall Tiles	$ 288	$ 120	$ 94	$ 299	$ 75
Asbestos Cloth, Dryer Felts & Sheets	3,530	3,629	3,399	3,519	2,193
Asbestos Packing	2,151	1,810	1,626	1,968	1,600
Asbestos Brake Linings	5,620	4,215	5,768	5,510	4,794
Asbestos Clutch Facings	1,486	987	642	1,070	1,300
A-C Shingles & Siding	78	86	209	123	113
A-C Boards & Sheets	609	385	455	962	765
Other Asbestos Building Materials	6,627	7,246	5,692	10,214	4,920
Other Asbestos Basic Products	4,094	3,075	3,051	2,586	2,587
	$24,483	$21,533	$20,936	$26,251	$18,247

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1977 U.S. ECONOMIC CENSUSES

The Census Bureau will shortly be issuing reports of the 1977 Economic Censuses. Meanwhile, the two following publications are obtainable for information and reference. *The Miniguide to the 1977 Economic Censuses* tells what the Censuses cover and outlines the particular kinds of data available in the various tables in the reports. The publication is for sale, at $1.80 per copy, by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. *The Publication Program, 1977 Economic Censuses* gives basic information on the contents of the upcoming reports and the approximate dates of issue. Free copies are available from the Subscriber Services Section (Publications), U.S. Bureau of the Census, Washington, D.C. 20233.

U.S. WEIGHTS & MEASURES

The National Bureau of Standards (NBS), U.S. Department of Commerce, completed an historic, 13-year program to replace the official sets of weights and measures in all 53 States and Territories of the United States with the presentations in October 1978 of sets of standards to the Governments of the Virgin Islands and Puerto Rico. The last time the nation saw a general distribution of State measurement standards was in the mid-1800's. In making the final presentations, Albert D. Tholen, Chief of the NBS Office of Weights and Measures, said that accuracy in the marketplace is necessary to ensure fairness to both buyer and seller in the thousands of commercial transactions which take place daily. Each set of weights and measures cost the Federal Government about $80,000.

NBS SEEKS METRIC-SIZED PRODUCTS

As part of its own metric conversion program, NBS is seeking manufacturers or distributors who can supply commercially-available products and supplies in metric dimensions from domestic sources. Because of the broad range of interests being pursued, virtually any construction and engineering items, as well as all types of scientific measuring instruments, are of interest.

INDUSTRIAL INNOVATION SYMPOSIA

Secretary of Commerce Juanita M. Kreps announced the schedule for seven public symposia to be held this month as part of the Domestic Policy Review of Industrial Innovation. The review is focusing on the effects on industrial innovation of economic policy; Federal procurement, patent and information policies; Federal direct support of research and development; Federal environment, health and safety regulations; and the regulation of industry structure and competition.

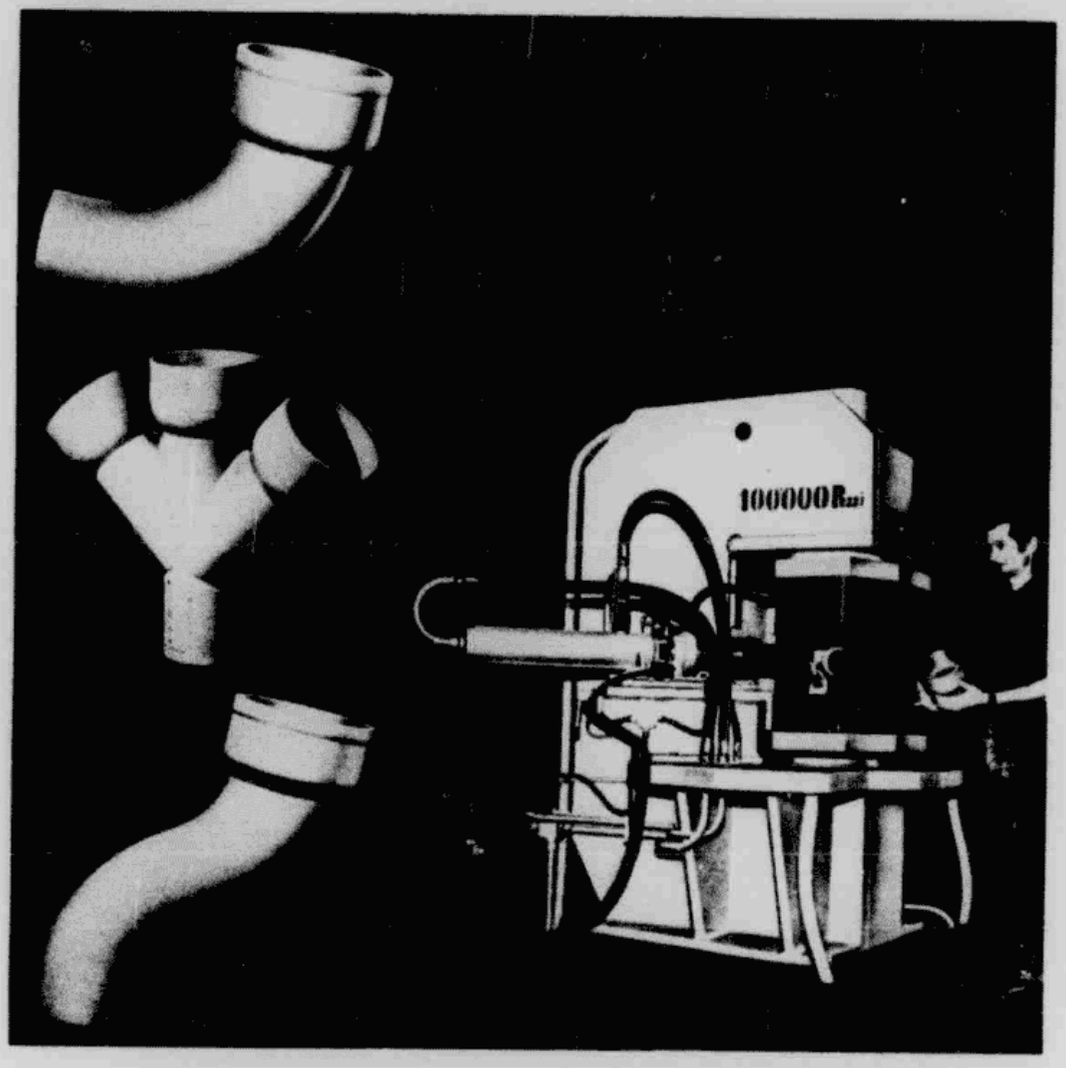
TEXTILE BILATERAL NEGOTIATIONS

Pursuant to the terms of the GATT Arrangement Regarding International Trade in Textiles and the bilateral textile agreements between the

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Automatic INJECTION Plants

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United States and Brazil, Japan and Portugal (Macau), the Committee for the Implementation of Textile Agreements, U.S. Department of Commerce, anticipates holding bilateral negotiations with these Governments by June 30, 1979. [Federal Register of 12/6/78; page 57178]

AID TO SMALL BUSINESS

Small businesses will receive assistance from the Commerce Department under a new plan designed to meet the problems of escalating product liability insurance premiums and costs. The current Internal Revenue Code allows a three-year carry-back period for net operating losses attributable to product liability losses and related costs. An amendment which the Carter Administration will propose would allow businesses to extend the carry-back period to ten years. The long-term plan of the Administration addresses three basic problems of product liability: irresolutions in the legal system; insurance ratemaking practice; and manufacture of unsafe products in the first place. [ASA Review, a publication of the American Subcontractors Association]

BATTELLE R&D FUNDING FORECAST

Expenditures in calendar year 1979 for research and development in the United States are expected to reach $52.6-billion, according to the annual R&D forecast of Battelle Columbus Laboratories. This represents an increase of $5.3-billion or 11.1% over the $47.3-billion the National Science Foundation estimates was to be actually spent for R&D in 1978. While most of the increase will be absorbed by continued inflation, Battelle forecasts a 3% increase in real R&D expenditures, bringing them to the highest level in a decade. The report notes that 1979 is expected to be characterized by continued inflation—an estimated 7.9% from 1978 to 1979. For statistical purposes, the forecast assumes success for the current anti-inflation program of the Carter Administration. It is noted, however, that many critics feel the program comes too late to have more than limited success.

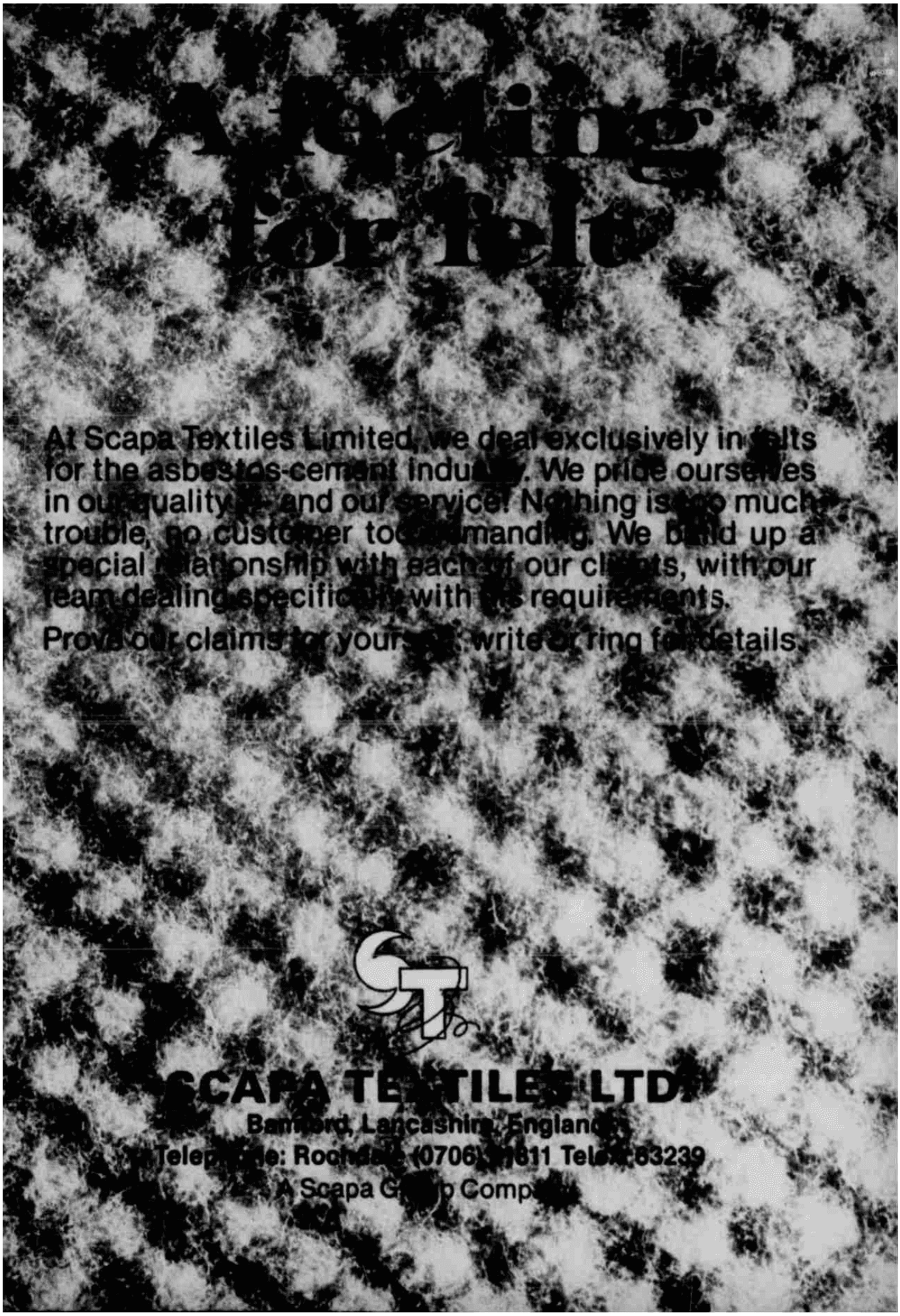
NATIONAL STANDARDS POLICY

Last month the National Standards Policy Advisory Committee issued its recommended National Policy on Standards for the United States. Objectives of the Policy are to provide policies with respect to both government and private initiation, development, use and maintenance of national standards for products, systems and services—and to provide a framework for the efficient organization and management of government and private resouces to ensure the U.S. national standards needs are competently and economically met, on a timely basis, under generally recognized principles of due process. The Policy also contains a Recommended Implementation Plan. The independent effort was initiated under the auspices of, but free of any policy guidance by, the American National Standards Institute, Inc.

INSULATION MATTERS

The *National Institute of Building Sciences* formed a special 28-member *Task Force on Insulation.* Among the members are J. S. Autry

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of Johns-Manville Corporation, J. M. Barnhart of the Thermal Insulation Manufacturers Association and J. P. Verhalen of the Sprayed Mineral Fiber Manufacturers Association, Inc. The group was created to investigate the mounting confusion at each step of the construction process surrounding the uses of insulation in all types of building throughout the United States.

The May 30, 1978, Federal Register carried a proposal of the *Commerce Department* concerning *specifications for the labeling of home thermal insulation.* The proposal suggests a description of the product, performance characteristics, identification of pertinent test methods, label designs and display criteria and requirements for participation in the DOC Voluntary Consumer Product Information Labeling Program, designed to aid consumers with purchase decisions.

NEW ASTM FLOOR TILE SUBGROUP

Committee F-6 on Resilient Floor Coverings, American Society for Testing and Materials, has formed a new Subcommittee F06.80 on Specifications. Areas for possible standardization are floor tile (including vinyl-asbestos), rubber and vinyl matting and vinyl plastic floor.

UNIDO INVESTMENT/PROMOTION SERVICES

With the opening of investment promotion services in New York City and Zurich, Switzerland, the United Nations Industrial Development Organisation now has four offices for creating contacts between potential investors from industrialized countries and the promoters of industry in developing countries. The two other offices are at Cclogne, West Germany, and Brussels, Belgium.

QAMA MANUFACTURING STUDY

In 1977 QAMA retained Sores Inc. to study the economic feasibility of further processing asbestos fiber in the Province of Quebec. Sores, in turn, retained Arthur D. Little, Inc., to collaborate in the study. The result of Phase I of the project was the selection of the following products for further study: asbestos-cement finished sheets, molded friction materials, flooring felts and gasket papers, roofing felts and pipe-wrapping papers, and asbestos-cement pipes.

Following completion of Phase II of the study, the first three categories were deemed economically promising. In terms of investment, setting up facilities to manufacture these products could total $60-million, could produce some 400 new jobs and could conceivably result in asbestos fiber consumption of about 40,000 tons annually. Among several comments on various segments of the report, M. J. Messel, President of QAMA, said: "One must realistically recognize that an optimal expansion of the asbestos manufacturing sector in Quebec will necessitate the injection of important risk-capital, with a relatively minor impact on the job market in the Province." On another occasion, Mr. Messel defined the report as for investors—and investors cannot take risks as important as a government which can afford to lose money on one hand but create jobs for its people on the other hand.

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— Auxiliary machines for special sheet profiles.

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QUEBEC ASBESTOS POLICY

As announced by Mr. Yves Berube, Quebec Minister of Natural Resources, the Provincial Government plans to increase the amount of asbestos processed in Quebec and to become "present" in the asbestos mining industry in the Province. The Quebec Government has expressed the hope to increase from 3% to 20% the amount of Quebec-produced asbestos fiber used in the making of asbestos-based products within the Province. In line with this, the new Societe Nationale de l'Amiante (National Asbestos Corporation) has been formed, with a head office in Thetford Mines, a government relations office in Quebec City and a financial and marketing office in Montreal. As its first project, under a $4.7-million budget granted by the Quebec Government, SNA is renovating an existing plant in the Province for the production of asbestos paper. The new facility is to be operational by February 1979, initially producing 20,000 tons of material per year and having an ultimate annual capacity of 40,000 tons. Papiers Cascades Ltee, a private producer of asbestos felts, will manage the plant. All the asbestos paper produced will be sold to Domco Industries Ltd., a major linoleum producer in Quebec. The paper will be about 85% asbestos and the producers will annually utilize 32,000 tons of Quebec asbestos—an increase of 80% over current usage within the Province. Other projects under the governmental Asbestos Policy are another asbestos paper plant, in Thetford Mines; a new Asbestos Research and Development Center; a study of the fabrication of light aggregates from asbestos tailings; research into possible electrochemical applications of asbestos; and an investigation into the possibility of issuing a catalog listing some 3,000 asbestos-containing products. Already at the pilot-plant stage of development is a technique of extracting magnesium hydroxides and carbonates from asbestos tailings. In conjunction with increasing the use of Quebec asbestos within the Province, the government is interested in entering into joint ventures with manufacturers willing to relocate or open new plants in Quebec.

QUEBEC/QAMA ASBESTOS RESEARCH ACTIVITIES

QAMA commissioned the Center of Technological Development (CDT), Ecole Polytechnique, Montreal, *to study the feasibility of developing asbestos research in the Province.* CDT's 138-page, comprehensive report has now been submitted. Main recommendation is directed towards the creation, by the asbestos producers, of a research center designed to concurrently meet the needs of Quebec's economic policies, the needs of asbestos producers' expansion and development policies, and the needs of asbestos consumers. The reporters favor the utilization of existing human and material resources, finding after study that researchers in existing Quebec centers are highly qualified and that certain centers have actually developed "an expertise in asbestos which permits the pursuit of highly advanced research". CDT proposes that financial backing provided by the Quebec Government equal 30% of the center's total budget, and that the manufacturing industry also make a contribution. The studiers foresee the center could reach its "normal operations phase" in five years' time.

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In September representatives of the Provincial Government of Quebec met with delegates of QAMA *to discuss the possibilities and means of developing asbestos research in the Province.* The two delegations discovered they shared the same point of view with respect to the advisability of *creating a research and development organization* which would assert the importance of Quebec in the asbestos sector, encourage the development of a Quebec expertise in this field, and favor the growth of a Quebec manufacturing industry of asbestos-based products. The participants acknowledged that the cooperation of the Government and the asbestos mining industry in Quebec would play an important role in the pursuit and achievement of these objectives, and that it was primarily up to the industry to orient and oversee this research organization. Further discussions are underway.

In October Mr. Berube announced the creation of the *Center for Asbestos Research and Development* at the University of Sherbrooke. The Center is to concentrate on the development of new asbestos products and research to reduce health hazards in the industry. Its proposed operating budget will be about $5-million annually, with $2-million coming from the Provincial Government and the rest from the asbestos producers. Mr. Berube said that all things considered, the Quebec government thinks the effort expected from the asbestos companies is far from exorbitant.

ABOUT COMPANIES & PRODUCTS

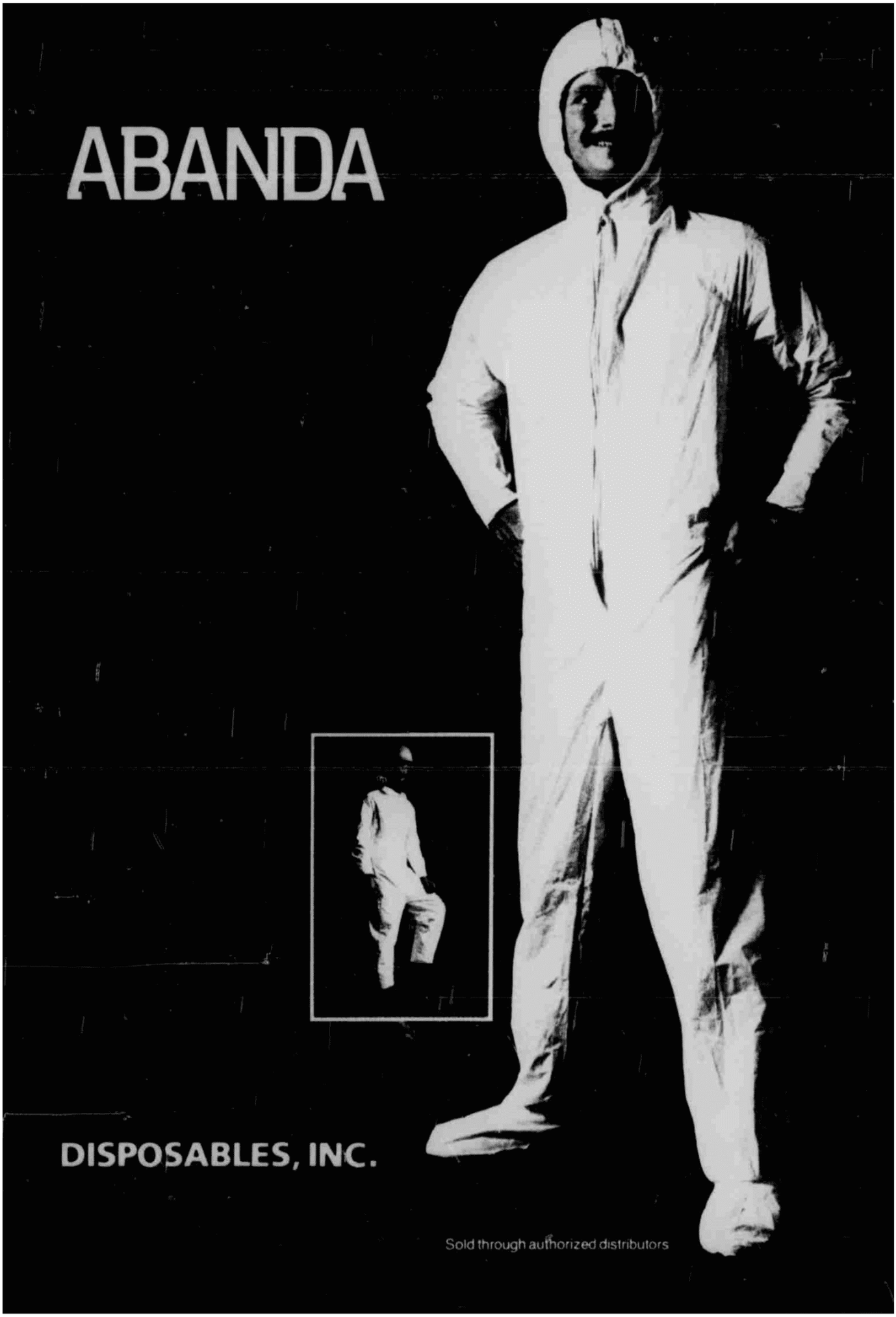
This section is devoted to information received during the past year concerning the products and activities of companies involved or associated with the business of asbestos. It is by no means to be considered a complete record of all manufacturers of asbestos-based materials.

Amiantit-Oman S.A.O. is the largest manufacturing enterprise in the Sultanate of Oman, producing asbestos-cement, polyethylene and PVC pipe. The company only recently began the manufacture of a-c pipe, since the opening of its new factory near Rusail in December 1977. Current capacity of the new facility is 36,000 tons per year, sufficient to satisfy future requirements of Oman for main water supply systems, sewerage networks, cable ducting and irrigation systems. The a-c pipe will also be exported to the United Arab Emirates and Saudi Arabia.

Armco International, a unit of Armco Inc., Middletown, Ohio, acquired *Autometrics Company*, of Boulder, Colorado, a leading supplier of sophisticated systems for measurement and control of particles in wet grinding and other processes involving slurries used for ore processing in mining and cement operations.

Atlas Asbestos Co. Ltd. is the only producer of asbestos-cement products in the Province of Quebec and represents about 35% of Canada's total production of these materials. Its pipe manufacturing plant at Montreal operates at 90% of capacity and the construction materials section runs at barely 50% of potential. Running the facility at full capacity would permit the utilization of 135% more asbestos fiber. Atlas exports 35% of its construction materials and 71% of its a-c pipe outside the Province.

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ABANDA
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Bigelow-Liptak Corporation, Southfield, Michigan, released an "Industrial Corrosioneering" brochure to describe the control services available from its Corrosion Construction Division located at Carteret, New Jersey. The literature relates how planning for corrosion resistance may include engineering, materials survey and selection, and installation either as separate services or part of a single responsibility contract. B-L notes that corrosion alone costs industry over $70-billion a year.

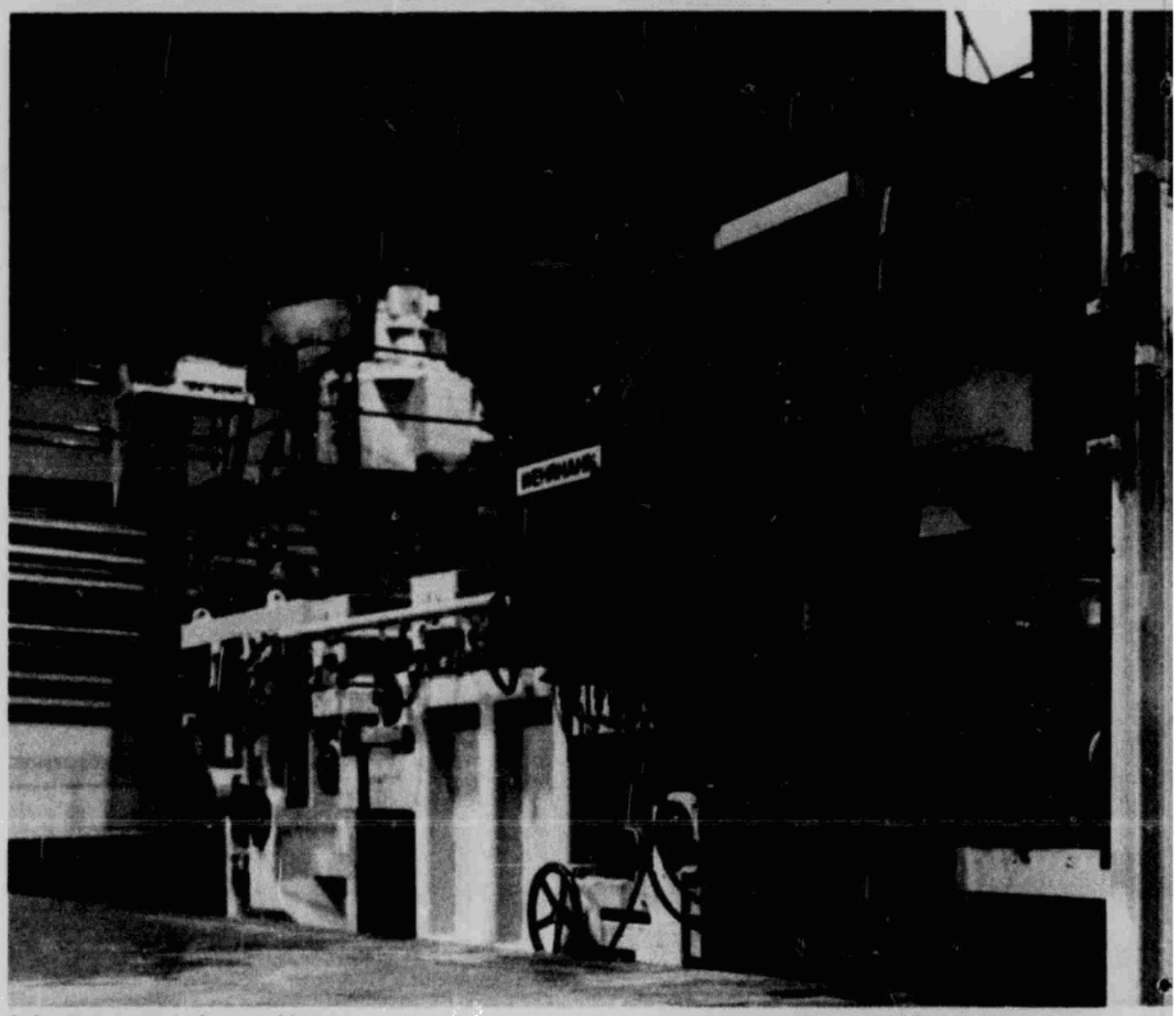
Cape Industries Ltd., London, England, reported that Group turnover for the first half of 1978 reached £87.4-million compared with £77.2-million for the same period a year earlier. Contributions to the latest turnover figure were 57% by the Building and Insulation Division, 30% by the Automotive and Engineering Division and 13% by the Mining Division. CIL took a 90.1% controlling interest in *Svenska Bromsbandfabriken a.b.*, having acquired an initial 49% in 1974. The remaining 9.9% is held by SVETAB (the Swedish State Industrial Development Board. Since 1971, Don friction materials have been made under license in Spain by the privately-owned Fressek company, of Valencia. By agreement with Madame Rosa Obiol Vinals, whose late husband founded the firm in 1952, CIL has acquired a 42% interest in the business now incorporated as *Fressek S.A.* . . . *Cape Boards and Panels Ltd.*—A new four-hour, fire-resisting partition which is light in weight and contains no asbestos was developed by CBPL. Advantages of the product, which incorporates Supalex board facings, are it may be handled and erected easily, on-site cutting and drilling are possible without special equipment and good acoustic and thermal insulation is provided. In the construction of the new fruit and vegetable wholesale market in Birmingham, Asbestolux, another CBPL product, solved the problem of providing fire-resisting ceilings which could withstand high levels of moisture without deterioration. U.K. Marinite from CBPL, was used for the unusual three-dimensional, fire-resisting suspended ceilings of the new town hall for the Royal Borough of Kensington and Chelsea, opened early 1978 by Princess Anne. The product is a monolithic building board sufficiently stable to accept timber, plastic or metal laminates without deformation. . . . *Cape Universal Claddings Ltd.*—Roofs for the buildings at the new distribution depot of Gilksten Hardwoods Ltd., in the Forest of Dean, are composed of Standard Six asbestos-cement sheets and fitments in Greycoat machine-sprayed baked acrylic finish, supplied by CUCL. The product was specified because its color matched the slate roofs of the local homes and because the 54mm-deep profile was appropriate for the large-scale timber storage shed. The largest hypermarket in Britain, a £6-million development opened in May 1978 near Bristol, has an unusual profile made possible by the use of factory-painted, asbestos-cement cladding sheets and custom-made curved sections. . . . *Don International Ltd.*—A £75-million, ten-year technical cooperative agreement was reached following two years of negotiations between DIL and VSZM (a Hungarian friction materials manufacturer), Intercooperation A.G. (a Hungarian State Organization), the Foreign Trade Bank of Hungary and MOGURT (a Hungarian State Company). The pact covers complete know-how for all Don formulations for commercial vehicles and all subsequent developments of friction materials for the commercial vehicle industry.

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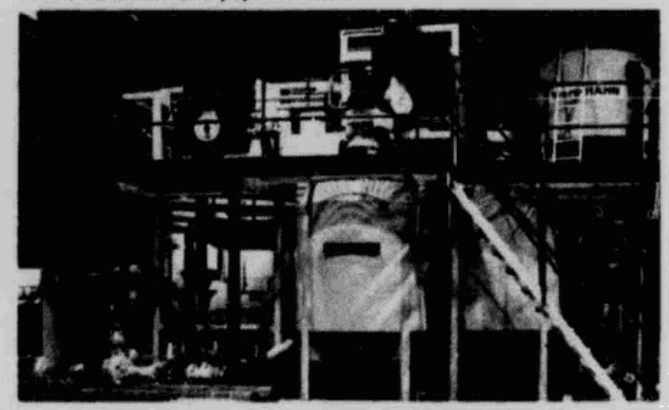


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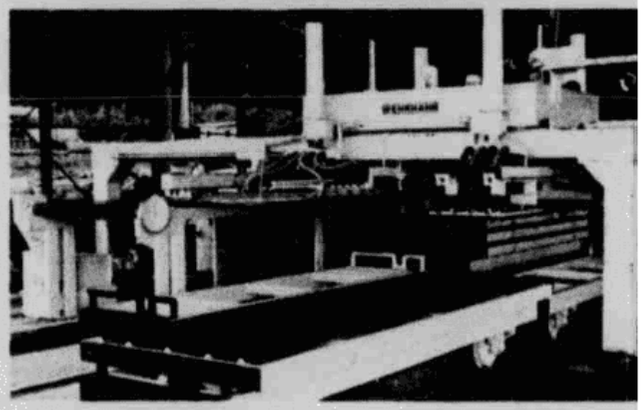
WEHRH



Asbestos cement pipe machine



Slurry preparation



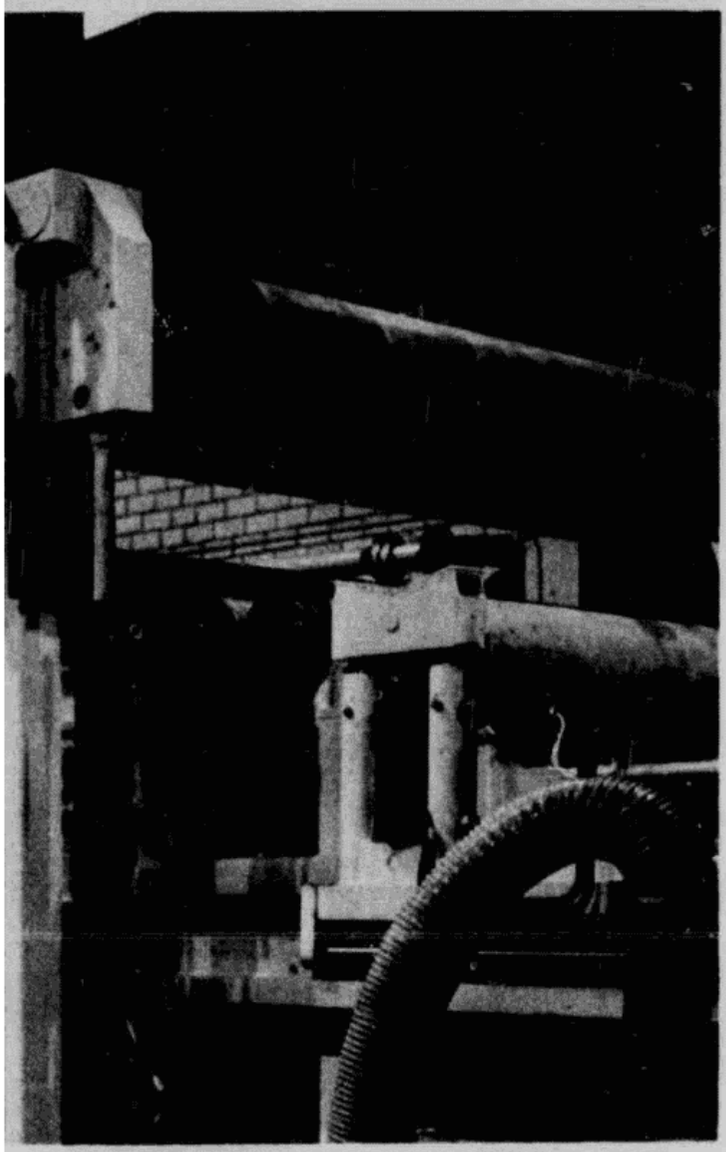
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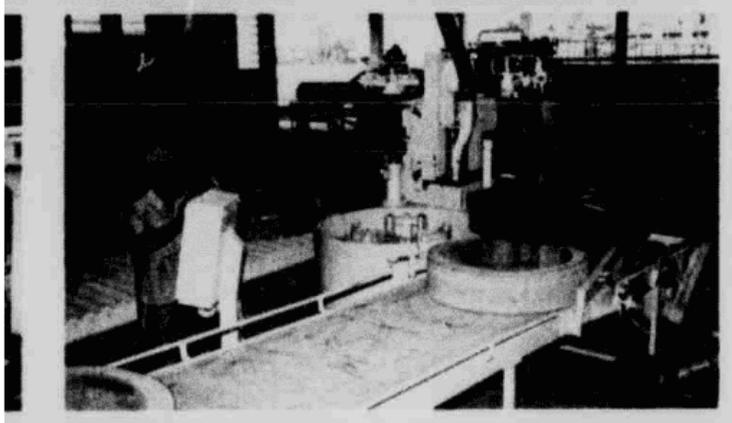
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The Carborundum Company, Niagara Falls, New York, a subsidiary of *Kennecott Copper Corporation*, entered into a limited agreement with *Environmental Elements Corporation*, a wholly-owned subsidiary of *Koppers Company*. Carborundum has the right to market, use and install the Koppers electrostatic precipitator in certain areas of international operations. Sole rights to the product are held in Brazil, Canada, Denmark, Finland, Ireland, Italy, Mexico, Norway, Spain, Sweden and the United Kingdom. It also has non-exclusive rights in Argentina, New Zealand and Venezuela.

Combustion Engineering, Inc., Process Equipment Group, centralized and strengthened its overseas marketing operation by establishing European headquarters at Paris, France. Represented in the project are several C-E companies including C-E Bauer, C-E Air Preheater, C-E Invalco and C-E Raymond. Also a complete line of wallboard plant equipment and bulk materials handling equipment will be marketed under the Ehrsam trademark. . . . *C-E Bauer moved into new international headquarters*, just prior to its 100th anniversary, at Upper Valley Pike and Baker Road, on the western side of Springfield, Ohio. The new facility houses sales, engineering and administrative departments for C-E Bauer, the C-E Bauer Foundry and the Process Equipment Development Laboratory.

Durabla Manufacturing Company, Stratford-Wayne, Pennsylvania, describes its compressed asbestos gasket material as a universal high-pressure, high-temperature sealing product with a maximum obtainable gas tightness surpassing that of many metal gaskets, even when used for applications involving high vacuum and volatile gases. Durabla has been in this business for over 65 years.

Eaton Corporation, Cleveland, Ohio, recently realigned its operating structure to reflect new strength as a supplier of industrial and automotive products. The realignment resulted from acquisitions which vastly increased Eaton's market involvement in the industrial and capital goods sectors of the economy. The acquisitions include Kenway, Inc., Samuel Moore and Company, and Cutler-Hammer, Inc. Long known as a manufacturer of truck axles and brakes and of automotive valves and controls, Eaton also makes materials handling equipment, engineered fasteners, electronic controls and mechanical, electrical and hydraulic drives. Sales for the first half of 1978 were $1.2-billion.

Eternit-Werke Ludwig Hatschek, Wien and Vocklabruck, Austria, has invested some Sch.30-million in research over recent years and, as a result, is now marketing several new products. These include new asbestos-cement roofing sheet formats with embossed finishes, corrugated asbestos-cement sheets with trimmed corners and a polypropylene sewer pipe coupling.

The Flintkote Company, Stamford, Connecticut, is a major producer of basic materials and products for the building and construction industries in the U.S. and Canada. It also engages in paving contract construction in certain geographic areas of both countries. Sales for the first nine months of 1978 increased 24% to $540.4-million and earnings were up 76% to $29.2-million or $4.32 per share. At mid-year Flintkote announced plans to

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ASBESTOS

Lac d'Amiante du Québec, Ltée is the third largest producer of asbestos in Canada, with sales representatives on every continent of the world. LAQ's two mines produce a full range of grades, from the long 3 group for spinning and weaving, to the short 7's for paper, brake linings and floor tiles. Western Hemisphere representatives below can provide prompt service and local warehousing as required.

SALES REPRESENTATIVES

Arkansas, New Mexico, Okiahoma, Texas
Federated Metals Corporation
Houston, Texas

California: A.J. Lynch & Co.
Los Angeles, San Francisco

Illinois, Indiana, Wisconsin
Jensen-Souders Associates, Inc.
Chicago

Michigan: Matteson-Ridolfi, Inc., Detroit

New England, New York
Northern New Jersey
D.H. Litter Company, Inc.
New York, N.Y., Ballardvale, Mass.

N. Carolina, S. Carolina, Georgia
Tennessee, Alabama, Mississippi
Deeks & Co., Inc.
Stone Mountain, Ga., High Point, N.C.

Ohio
Lawlor Distributors, Inc., Cleveland

Pennsylvania, Delaware, Maryland
Virginia, Southern New Jersey
Van Horn, Metz & Company, Inc.
Conshohocken, Pa., Baltimore, Md.

Washington, Oregon
J.F. Shelton Co., Portland

Argentina
Tradimex S.A.I.Y.C., Buenos Aires

Brazil: Tennant Imp. E Exp. Ltda.
Sao Paulo, Rio de Janeiro

Bolivia: Tennants S.A., La Paz

Canada (Ontario, Quebec)
Federated Genco Ltd.
Montreal and Toronto

Colombia
Holanda Colombia, S.A., Bogota

Dominican Republic
A. Amanzio, Mexico City

Mexico
Industrial Minera Mexico, S.A.
Mexico City

Peru: Tennant (Peru) S.A., Lima

Puerto Rico
Juan Vater & Co., Inc., Santurce

Venezuela
Connell Brothers Co., Ltd., Caracas

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move the divisional headquarters of its *Building Materials and Flooring Divisions* to Irving, near Dallas, Texas, late in 1978. In August, *Genstar Ltd.*, a Canadian corporation, disclosed it had acquired through its wholly-owned subsidiary, *Dorster, Inc.*, approximately 21.5% of Flintkote's common stock. In early October, Flintkote filed suit against Genstar, et al., alleging violations of Federal securities and antitrust laws. Also in October it was announced that *Owens-Corning Fiberglas Corporation* had signed an agreement to purchase Flintkote's wood fiberboard products plant at Meridian, Mississippi.

Frankfurter Aussenhandel GmbH, Frankfurt/Main, West Germany, is interested in representing U.S. firms whose products fit into its sales program in West Germany, Switzerland and Austria. The company is a producer of plastics containing asbestos, glass and mineral wool; heat shields for hot press manufacturers; rotor plates for pumps; and bushings for the machine industry.

GAF Corporation, New York City, reported earnings from continuing operations for the first three quarters of 1978 were $21.8-million or $1.43 per share on sales of $806.2-million. Comparable year-to-date earnings in 1977 were $22.1-million or $1.46 per share on sales of $702-million. GAF completed the sale of its felts and filter business on August 1, 1978, to The American Felt and Filter Company for about $10-million. It has been reported that GAF has ceased all production of asbestos-cement products.

Garlock de Sherbrooke Ltee., Sherbrooke, Quebec, is one of the three asbestos yarn manufacturers in Canada (all in Quebec) and is the sole asbestos cloth producer in Quebec. The plant was completed in December 1975 and is considered among the most modern in the processing industry. About 75% of the plant's output is sold to plants of the parent company in the United States and Ontario, leaving some 25% for the Canadian market, mainly for the manufacture of safety clothing, dryer felts and gaskets. Garlock de Sherbrooke makes 20,000 pounds of cloth and 18,000 pounds of yarn each week which translates into a weekly usage of 30,000 pounds of asbestos fiber.

Ghana Investment Opportunity—An investor is being sought in Ghana for a proposed asbestos roofing sheet factory. Indications are there is a demand for this product in both the local and export markets. Inquiries should be sent to this Magazine.

GII Corporation is the new name for *Glasweld International, Inc.* With the acquisition last year of *Kaiser Aluminum and Chemical Company's Mirawal Products Division* and GII's plans for further product diversification in the building materials industry, a new corporate name not associated with the Glasweld product line was needed. GII is affiliated with the European-based *Eternit Group.* Its headquarters are at San Francisco, California, and the manufacturing facilities are at Port Carbon, Pennsylvania.

James Hardie Asbestos Ltd., Sydney, New South Wales, boosted earnings 20% to A$8.4-million in the six months to September 30, 1978. Group sales for the period rose 23.8% to $120.8-million. The profit figure in-

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cludes the results from the *Wunderlich Asbestos Cement operations* acquired from *C.S.R. Ltd.* in 1977. Hardie is currently involved in a major expansion through the takeover of *Reed Consolidated Industries.* The company has already bought the controlling interest in the U.K. parent company and is bidding for the remainder of the capital stock. Hardie Directors stated that although trading conditions remained difficult in Australia, the company had made significant gains in Indonesia and New Zealand.

Italian Investment Opportunity—The American Consulate General in Genoa, Italy, has been alerted to an Italian firm seeking *high-temperature insulating materials other than mineral wool.* The products are required in large quantities for naval and aviation use and must meet applicable standards of the U.S. Navy and U.S. Air Force. The company is a small-sized partnership established in 1974. It has expressed interest in eventually obtaining exclusive distributorships outside Italy.

Jim Walter Corporation, Tampa, Florida, achieved record sales and revenues and net income for the first quarter of fiscal year 1979, as demand for building materials remained at high levels throughout the period. For the year ended August 31, 1978, sales and revenues were $1.7-billion and net income totaled $87.7-million, equal to $5.05 per primary share. Early in 1978, Jim Walter said it would pursue all available legal remedies to *resist a ruling of the Federal Trade Commission* which calls for the divestiture of certain businesses obtained in the 1972 acquisition of the *Panacon Corporation.* The recent ruling calls for the divestiture of both the *Philip Carey Company* (the roofing manufacturing division of Panacon) and *Carey-Canadian Mines Ltd.* (the Canadian asbestos mining subsidiary). Jim Walter believes the acquisition has served to intensify competition in the roofing materials business rather than weaken or constrain it as found by the FTC.

Johns-Manville Corporation, Denver, Colorado, reported record sales and earnings in both its third quarter and first nine months of 1978. Nine month sales were $1.2-billion, a 13% gain over the same period a year earlier. Earnings were up 14% at $87.3-million or $4.04 a share. J-M management noted that all business segments of the company, excluding asbestos fiber, had significantly increased income from operations. Of particular note is the continuing strong performance of roofing products. . . . In September, J-M officials announced the company was considering the installation and operation of a *domestic earth station* utilizing existing satellite communications capabilities. Transmissions would be beamed between the J-M earth station in Denver and other domestic earth stations via a common-carrier-owned satellite some 22,000 miles from the earth. Pending the outcome of a company feasibility study, the system could be fully operational by mid-1979. The study will help determine the potential of the system in improving communications with J-M's 20,000 employees located at some 60 domestic locations. . . . On December 28, 1978, shareholders of *Olinkraft, Inc.,* a forest products company in West Monroe, Louisiana, approved the merger of Olinkraft into a wholly-owned J-M subsidiary. The merger is expected to be consummated by the end of this month. Olinkraft sales in 1977 were $381.2-million. Net income reached $102.6-million or $4.78 a share. . . . Early in 1979 it was an-

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nounced that J-M had held preliminary discussions with *Ashland Oil Inc.* about possible purchase by J-M of the U.S. oil and gas properties owned by subsidiary *Ashland Exploration Inc.* Reportedly about 20 companies have been studying Ashland's offering of properties and appraising the value of its 200-million barrel equivalent of oil and gas reserves. . . . *Autocrat Corporation,* New Athens, Illinois, stated it is vital to the reliable performance of its Americana wood burning fireplace/heater that the rope used to seal the double fire doors maintain its integrity despite prolonged exposure to extreme heat. It was found that an effective seal could be produced by using J-M Style 566 ¼" braided asbestos rope. . . . *Johns-Manville Canada Inc.,* Asbestos, Quebec, (formerly Canadian Johns-Manville Co. Ltd.) is a major manufacturer of thermal insulations and refractories, municipal water and sewer pipe and a wide range of industrial products. J-M Canada also operates the largest asbestos mine in the western world. Its manufacturing division has produced a variety of asbestos-based products since 1974. The plant employs 139 people of which 63 are involved in the asbestos textile industry. Yarn production reached 1,448,000 pounds in 1977 and an increase in output was anticipated in 1978. . . . On July 10, 1978, it was announced by the Canadian Department of National Revenue, Customs and Excise that a complaint had been filed by J-M Canada, Toronto, and Atlas Asbestos, Montreal, *alleging injurious dumping into Canada of asbestos-cement pressure pipe* produced by or on behalf of Cement Asbestos Products Company, Birmingham, Alabama. Investigation is underway.

James Kenyon & Son, Bury, England, in its new brochure "Improve Machine Performance Through Kenyon Technology," describes systems which represent the most effective means thus far devised for conditioning felts on sheet and pipe machines. Topics covered are felt design and application, machine start-up, operation and performance measurement, felt tension, felt conditioning and cleaning, fan and very high pressure needle jet showers, suction boxes and pump capacity, and ideal conditioning systems.

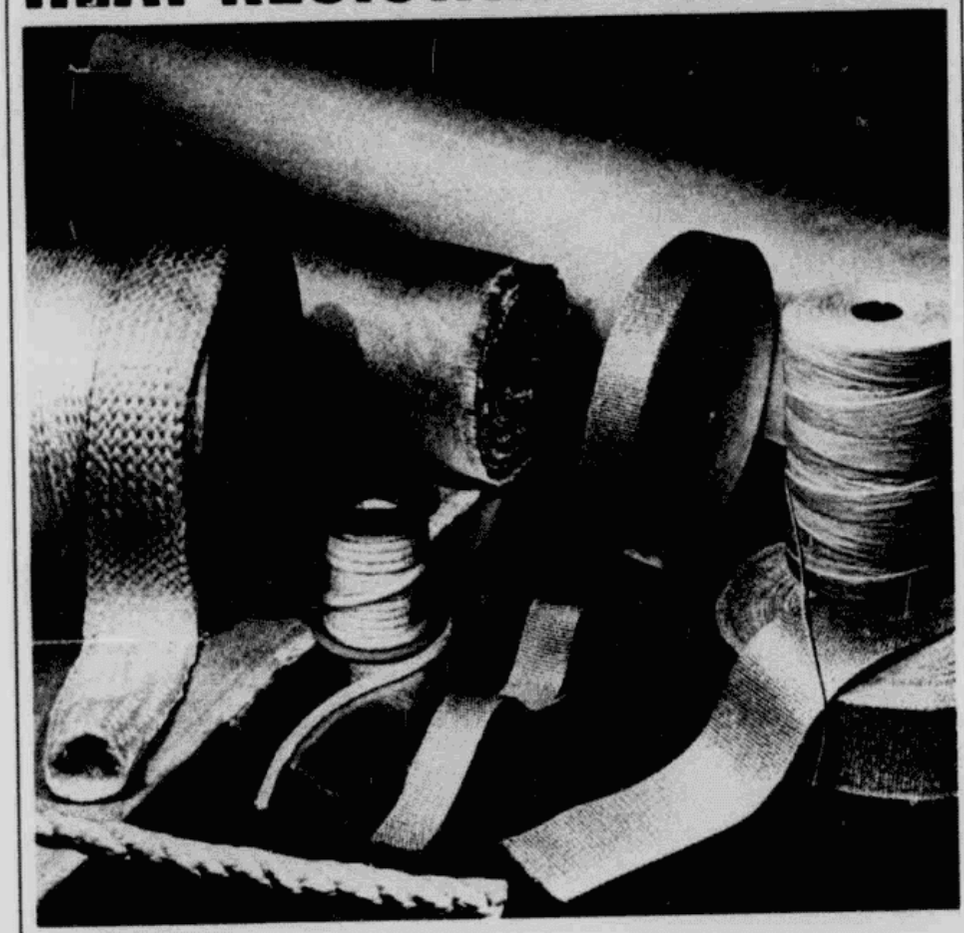
Richard Klinger, Inc., selected Sidney, Ohio, about 40 miles north of Dayton, as the site for its first production plant in the United States. The facility will make a rubber-bonded asbestos gasket. The Klinger Group is an international manufacturer of gasket materials, sheet packings, valves and level gauges.

Koppers Equipamentos, Ltda., is a new company in Sao Paulo, Brazil, formed by *Koppers Company, Inc.,* Muncy, Pennsylvania, which will manufacture and market *Sprout-Waldron processing equipment.* Also to be handled is the product line formerly made by *Calibras Equipamentos Para Racoes, Ltds.,* a Brazilian feed processing equipment maker.

Lone Star Industries, Inc., and *Keystone Portland Cement Company* have entered into a definitive agreement for the purchase by Lone Star of the assets of Keystone. Materialization of the transaction is subject to several conditions including approval by the Federal Trade Commission and by the majority of the shareholders of Keystone. Keystone owns and

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operates a cement plant at Bath, Pennsylvania, and has executive offices at Allentown, Pennsylvania. Lone Star is a major U.S. and South American cement producer and a leading distributor of building materials through retail home care centers. Its corporate headquarters are at Greenwich, Connecticut.

National Gypsum Company, Dallas, Texas, has relocated the headquarters of its largest operating arm, the *Gold Bond Building Products Division*, from Buffalo, New York, to Charlotte, North Carolina. The *asbestos-cement shingle and flat and corrugated sheet plant* at New Orleans, Louisiana, is available for purchase.

Pakistani A-C Pipe Plant—As announced by Brig. (Ret.) Abdur Rahim Khan, Provincial Adviser for Industries, Labor and Transport, June 1979 is the target date for start-up of the new *asbestos-cement pipe manufacturing factory* under construction at Haripur, near Peshawar, in the North West Frontier Province. The R70-million plant will employ some 600 workers and will operate around-the-clock, daily producing 100 tons of pipes. R25-million worth of machinery has been imported from Austria and technical experts from that country will supervise initial production and train local workers.

Philipp Brothers—On August 15, 1978, 9,000, 88-pound bags containing 355 short tons of cement arrived at the port of Los Angeles, California, from Tasmania. The shipment of type 2, high-quality, Portland cement was imported from *Goliath Industries*, Australia, by the *Philipp Brothers Division of Engelhard Minerals and Chemicals Company*. Philipp is the first company to import this commodity from a foreign source other than Mexico.

Plastigen C.A., a fabricator and distributor of plastic materials, has purchased the complete floor tile line and equipment at Chillicothe, Ohio, from *The Flintkote Company*. The machines have been installed at a new plant near Caracas, in Santa-Teresa del Tuy, Venezuela. Production is scheduled to begin this month and all ouput will be marketed domestically.

H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, announced in April it had received 98,000 shares of the common stock of *Fansteel, Inc.*, Chicago, Illinois. The tendered shares, together with the 1.3-million already owned by Porter, represent about 96% of Fansteel's shares outstanding. . . . *Porter's Thermoid Division*, Huntington, Indiana, was presented the *Distinguished Service Award* by the Automotive Service Industry Association in recognition of "exemplary and enduring service to the community and to the industry." Thermoid has a 50-year history of manufacturing clutch facings, brake linings, disc brake pads and heavy-duty brake blocks at the Huntington facility. . . . *Thermoid* has undertaken a multi-million dollar expansion program at its *Flex Strength rubber hose manufacturing facility* at Bellefontaine, Ohio. The project will increase manufacturing capacity 33%—to over 200-million feet of hose per year.

Raybestos-Manhattan, Inc., Trumbull, Connecticut, reported net sales for the 39 weeks ended October 1, 1978, at $212,594,000 or 12.2% ahead of continuing sales for the comparable nine-month period in 1977. Continuing net income showed an increase of 17.8%. . . . For nearly 75 years

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the trade name Raybestos has been prominent in the marketplace and well-known by customers. In recognition of the value of this trade name, the names of two R/M operating companies have been changed as of January 1, 1979. The R/M International business is now known as *Raybestos International*, a division of Raybestos-Manhattan, Inc.—and the RM Friction Materials Company is now the *Raybestos Friction Materials Company*. Concerning the latter company, construction has begun on a new 33,000-square-foot headquarters building adjacent to R/M's Corporate Headquarters at Trumbull. Occupancy is scheduled for early this year. At the *Raybestos Manhattan Industrial Products Company*, North Charleston, South Carolina, the final shipment of significant equipment for the four-year, $11-million NOVATEX program was to have been delivered in the third quarter of 1978 and should be operational in early 1979.

Southern Textile Corporation—The Board of Directors voted to amend the company charter by changing the firm's name from *Southern Asbestos Company*, effective January 1, 1979. Southern Textile will continue to market a complete line of asbestos textiles for the businesses it serves. In addition, a new line of materials was announced last month to complement the existing range of asbestos products at Charlotte, North Carolina. This new line of non-asbestos materials is available in Style 200 cloth, Style 300 tape, Style 400 tubing and Style 500 rope. All of the products are made from yarns developed especially for equipment used in the asbestos textile industry.

Supradur Manufacturing Corporation, New York City, reported sales for the nine months ending October 1, 1978, increased 6.9% and net income after adjustment for currency exchange fluctuations rose 92%. The company maintains assets in D-Marks and Swiss Francs which have appreciated in value as expressed in U.S. dollars. . . . Supradur reached an agreement with *DTI Security, Inc.*, Sunnyvale, California, whereby Supradur has an exclusive right to acquire DTI by the end of 1979. . . . In response to several questions posed by customers reacting to the news that GAF would cease production of a-c products, Supradur issued the following comment. "Supradur has been involved with the manufacture of roofing and siding for over 30 years. Although Supradur is widely diversified, the backbone of our business has always been these products. As a smaller and more responsive company than our competition, we have always found it easier and more important to make the necessary changes to maintain our leadership position in the market. Our capital investment in the industry is large and we intend to protect this investment for many years to come."

Turner & Newall Ltd., Manchester, England, reported that although some improvement in demand was evident toward the end of the first half of 1978, Group profit before taxation was £21.5-million, £1.7-million less than in the same period a year prior. . . . T&N took a 50% equity in a new company, *Flexitalic Iberica*, which will manufacture industrial gaskets in Spain. . . . The company reached an agreement with *S.A. Francaise du Ferodo* that each should increase its shareholding in *Bureau Technique International S.A.*, Belgium. T&N's stake will rise to 68% and SAFF's to 32%. BTI is a maker of water pumps, a distributor of automotive components and one of the largest brake shoe relining companies in Europe.

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. . . It was agreed in principle that T&N should acquire 80% of the equity of *Harlequin Wallcoverings Ltd.* . . . T&N's wholly-owned subsidiary, *Storey Brothers & Co. Ltd.*, has acquired full control of *Transprints (UK) Ltd.* . . . Turner & Newall is to spend an additional £1.8-million on the previously announced £6-million expansion program at the new uPVC pipe manufacturing plant in Nigeria for *Turners Building Products (Emene) Ltd.* The pipes will be made at the existing a-c pipe plant. . . . *The Sealing Materials Division of TBA Industrial Products Ltd.* has won £650,000 worth of contracts from *Ferrimport*, the state purchasing organization of Cuba. The contracts cover a wide range of TBA products including compressed asbestos fiber jointing, plaited and proofed packings, oilproof paper jointing, millboard and PTFE products. . . . *TAC Construction Materials Ltd.* developed a dust suppressant treatment which is being applied to all Sindanyo CS51 cut parts and machined components. Based on a cellulosic compound and applied by dip coating, the treatment minimizes dust problems when handling or assembling components machined from Sindanyo electric arc and heat-resisting, asbestos-cement boards. . . . *United Asbestos Cement Ltd.*, Malaysia, will double production capacity by constructing a US$8.3-million pipemaking plant near the existing factory near Ipoh. The facility is to have capacity to annually produce 25,000 tons of pipe.

Vermont Asbestos Group, Inc., (VAG), Lowell, Vermont, Board of Directors has scheduled a special meeting of stockholders on February 4, 1979, in response to a demand by a group of minority shareholders for a reassessment of the company's financial commitment for construction of its *Vermont Industrial Products, Inc.*, (VIP) wallboard plant at Morrisville. The petition contends that, without the required approval of two-thirds of the shareholders, VAG Directors approved expending $350,000 for working and start-up capital and guaranteed VAG's assets on an $830,000 bank loan, construction cost overruns and any quarterly operating losses for VIP's first two years. Meanwhile, VIP continues construction of its 22,000-square-foot, $2-million plant. When in full operation the facility will annually produce 32-million square feet of the fireproof product. Waste material from the parent company's asbestos mine at Lowell will be used in the manufacturing process.

Wheeler Protective Apparel, Inc., Chicago, Illinois, has been making a line of quality safety clothing for the last 60 years. The original firm began in 1913 as *Wheeler Holcomb Company*. Initially a maker of leggings and gloves, Wheeler now manufactures a broad range of safety apparel in several styles, colors, sizes and fabrics for protection against chemicals, gases, heat, fire, abrasion, impact and lacerations. In addition, it stocks for resale such other products as personal air supplies, boots, shoes and lifelines.

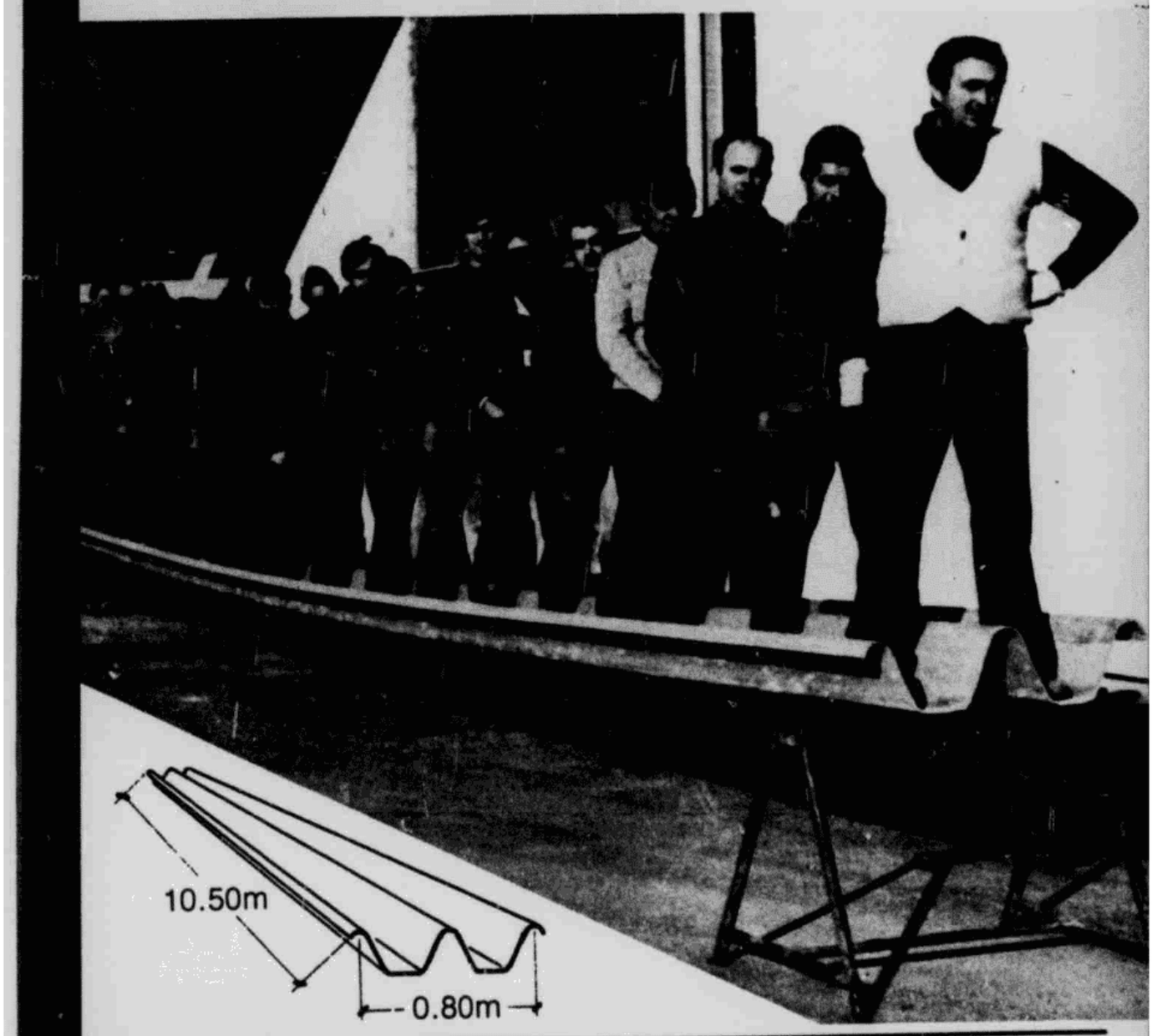
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OCCUPATIONAL HEALTH & SAFETY REVIEW

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PRODUCTION—IMPORTS—EXPORTS

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 158,996 short tons in *September 1978* and 152,541 tons in *October 1978*. The cumulative total for *January-October 1978* was 1,299,745 tons: 1,132,980 tons from Quebec plants and 166,765 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first ten months of 1977 was 1,399,037 tons: 1,142,916 tons from plants in Quebec and 256,121 tons from plants in the other four Provinces. Beginning January 1978, these figures include concentrate shipped from Asbestos Hill. [Statistics Canada]

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers for the *First Nine Months of 1978* reached 29,608 metric tonnes (6.1-million square meters) compared with 30,742 tonnes (6.4-million sm) in the same period of 1977. *Shipments* totaled 29,345 tonnes (6-million sm) in the latest nine months against 31,354 tonnes (6.4-million sm) for the same 1977 period. [Statistics Canada]

FELT SHIPMENTS FROM CANADA

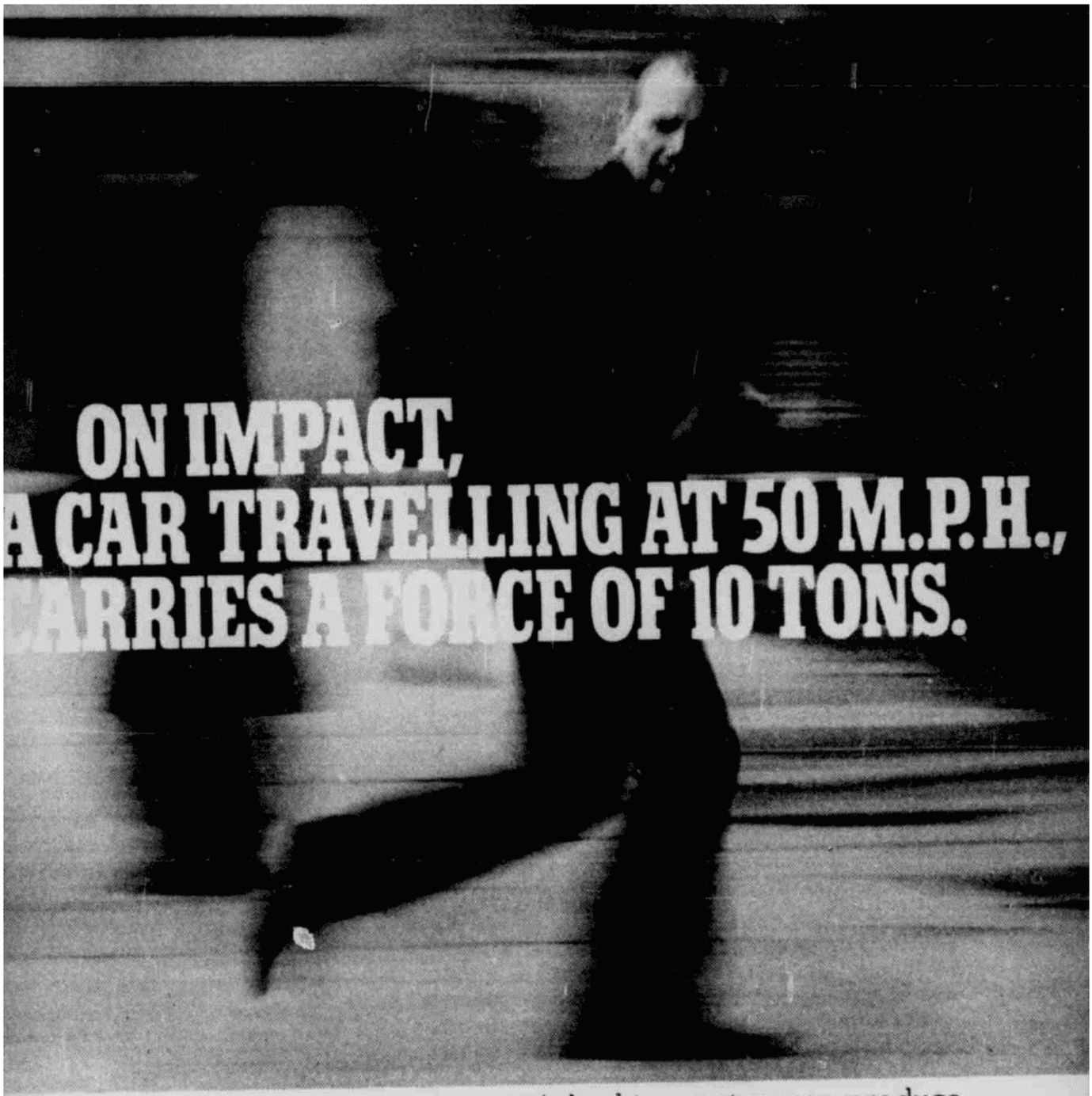
Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *First Nine Months of 1978* totaled 4,103,389 square feet (381,217 square meters) valued at C$13,304,748. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet-forming operations) reached 1,615,296 pounds (732,686 kilograms) valued at C$27,570,127. [Statistics Canada]

CANADIAN PRODUCT & FIBER IMPORTS

Canada imported C$19,893,000 worth of asbestos-containing products in *January-September 1978* compared with $16,311,000 in the like 1977 nine months. A breakdown for the latest period is: vinyl-asbestos floor and wall tiles—$230,000 (125,063 square yards); asbestos cloth, dryer felts and sheets—$3,065,000; asbestos packing—$1,539,000 (867,732 pounds); asbestos brake linings—$5,232,000; asbestos clutch facings—$986,000; asbestos-cement shingles and siding—$57,000; asbestos-cement boards and sheets—$435,000; other asbestos building materials—$5,307,000; and other basic asbestos products—$3,042,000.

Imports of unmanufactured asbestos totaled 667 short tons valued at $432,000 in the first nine months of 1978 compared with 3,470 tons valued at $1,424,000 in the comparable 1977 period. In the latest nine months, 447 tons valued at $254,000 were imported from the Republic of South Africa, 210 tons valued at $175,000 were from the United States and Belgium-Luxembourg supplied 10 tons valued at $3,000. [Statistics Canada]

Asbestos Magazine, 1979, January 1979
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IMPORTS INTO THE UNITED STATES

From U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		SEPTEMBER 1978	
Amosite	s.tons	..	$ ..
Crocidolite (Blue), Canada	s.tons	64	20,897
Republic of South Africa	s.tons	523	345,922
Chrysotile Crudes, South Africa	s.tons	308	194,323
Chrysotile Spinning Fibers, Canada	s.tons	1,047	829,496
Chrysotile, Other, Canada	s.tons	46,046	11,275,115
Mexico	s.tons	2	370
South Africa	s.tons	40	26,402
Sweden	s.tons	22	8,325
Other Crudes & Fibers, Canada	s.tons	781	198,703
India	s.tons	19	2,088
Italy	s.tons	58	5,699
South Africa	s.tons	116	38,437
Yugoslavia	s.tons	40	3,248
		49,066	$ 12,949,025

MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	1,042,003	$ 1,566,309
A-C pipes, tubes & fittings	Lb	1,302,614	168,330
Other asbestos-cement articles	Lb	3,089,475	467,528
Other asbestos articles	Lb	..	530,153
			$ 2,732,320

UNMANUFACTURED ASBESTOS:		JANUARY-SEPTEMBER 1978	
Amosite, Canada	s.tons	20	$ 13,842
South Africa	s.tons	962	495,807
Crocidolite (Blue), Canada	s.tons	144	75,113
South Africa	s.tons	12,124	7,434,158
Chrysotile Crudes, Canada	s.tons	20	13,842
Italy	s.tons	17	3,064
South Africa	s.tons	1,604	1,016,857
Chrysotile, Spinning Fibers, Canada	s.tons	6,147	5,170,754
South Africa	s.tons	55	40,662
Chrysotile, Other, Canada	s.tons	404,993	96,636,507
Mexico	s.tons	152	8,471
South Africa	s.tons	397	264,261
Sweden	s.tons	22	8,325
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	12,855	2,714,772
India	s.tons	43	17,027
Italy	s.tons	99	16,283
South Africa	s.tons	1,158	715,391
USSR	s.tons	1,113	324,447
Yugoslavia	s.tons	40	3,248
		442,013	$115,001,409

U.S. IMPORTS—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	7,795,049	$ 12,686,052
A-C pipes, tubes & fittings	Lb	16,317,001	1,898,358
Other asbestos-cement articles	Lb	17,516,912	3,671,284
Other asbestos articles			5,638,084
			$ 23,893,778

January-September 1977: U.S. imports of unmanufactured asbestos totaled 451,278 short tons, valued at $110,191,399; imports of manufactured asbestos products were valued at $25,196,705.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: ***SEPTEMBER 1978***

Asbestos Crudes, Fibers & Stucco	s.tons	1,685	$ 713,723
Asbestos Sand & Refuse	s.tons	2,269	498,367
		3,954	$ 1,212,090

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	418,038	$ 532,779
Asbestos-Cement shingles & clapboard	Lb	1,525,984	247,159
Other asbestos-cement articles	Lb	5,381,209	2,131,581
Asbestos gaskets	Lb	468,093	349,226
Asbestos packing & seals	Lb	195,570	877,608
Asbestos insulation			422,033
Brake linings & disc brake pads			1,887,909
Clutch facings & linings			971,074
Other asbestos articles			1,639,070
			$ 9,058,439

UNMANUFACTURED ASBESTOS: ***JANUARY-SEPTEMBER 1978***

Asbestos Crudes, Fibers & Stucco	s.tons	19,576	$ 6,319,895
Asbestos Sand & Refuse	s.tons	16,309	3,547,233
		35,885	$ 9,867,128

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	6,977,817	$ 5,471,234
Asbestos-Cement shingles & clapboard	Lb	18,167,370	4,009,533
Other asbestos-cement articles	Lb	24,759,236	8,827,693
Asbestos gaskets	Lb	3,289,608	2,730,059
Asbestos packing & seals	Lb	4,481,368	8,395,622
Asbestos insulation			4,147,355
Brake linings & disc brake pads			29,541,318
Clutch facings & linings			8,455,379
Other asbestos articles			16,798,375
			$ 88,376,568

January-September 1977: U.S. exports of unmanufactured asbestos reached 28,031 short tons, valued at $8,800,317; exports of manufactured asbestos products were valued at $60,820,029.

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EXPORTS FROM CANADA

From: Statistics Canada

SEPTEMBER 1978

Short Tons

UNMANUFACTURED ASBESTOS	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	703	58,442	11,280
Eastern Europe	..	..	3,731	..
Middle East	..	..	420	123
Africa	..	..	978	..
Asia	..	409	9,929	10,173
Oceania	..	..	2,444	240
So. & Cen. America & Antilles	..	600	10,764	3,138
United States	..	1,092	15,176	37,343
	..	2,804	101,884	62,297

The total amount of unmanufactured asbestos exported in *September 1978* was 166,985 short tons. valued at C$54,437,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 346,000
Asbestos brake linings & facings	397,000
Asbestos-Cement building materials	1,537,000
Other basic asbestos products	419,000
	C$2,699,000

JANUARY-SEPTEMBER 1978

UNMANUFACTURED ASBESTOS	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	5,002	181,248	99,022
Eastern Europe	..	2,655	25,679	1,635
Middle East	..	140	12,098	1,935
Africa	..	6	6,368	640
Asia	..	2,273	72,248	81,217
Oceania	..	10	31,040	1,764
So. & Cen. America & Antilles	..	1,882	78,716	31,534
United States	..	6,715	103,971	331,409
	..	18,683	511,368	549,156

The total amount of unmanufactured asbestos exported in *January-September 1978* was 1,079,207 short tons, valued at C$394,321,000.

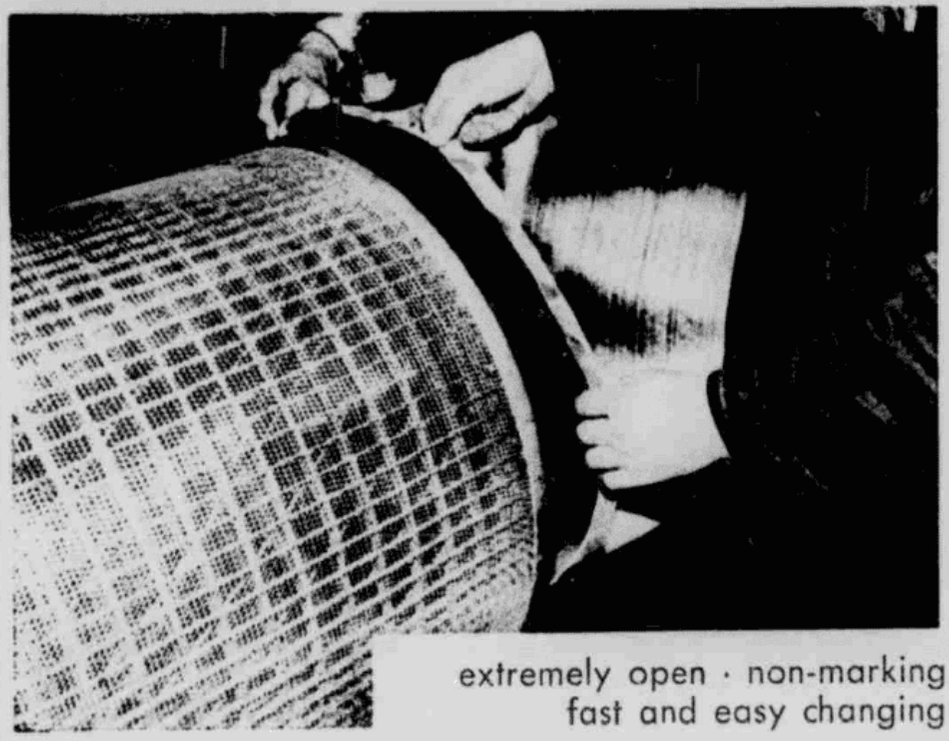
MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 2,657,000
Asbestos brake linings & facings	2,513,000
Asbestos-Cement building materials	10,340,000
Other basic asbestos products	3,989,000
	C$19,499,000

January-September 1977: Canadian exports of unmanufactured asbestos totaled 1,176,162 short tons, valued at C$406,107,000; exports of manufactured asbestos products were valued at C$17,187,000.

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ASBESTOS STOCK QUOTATIONS

Close—December 19, 1978

Abitibi Asbestos	C$.85
Advocate Mines	C$2.65
Armstrong Cork	14⅞
Armst. Cork (pfd 3.75)	42
Asarco	13½
Asbestos Corporation	C$46.25
Bendix	35⅞
Carlisle	23⅞
Cassiar Asbestos	C$9.25
CertainTeed	16½
Charter Conso	pence 135
Colt Industries	34⅞
Colt Ind. (pfd 1.60)	27½
Colt Ind. (pfd 4.25)	75¼
Conwest	C$5.625
Flintkote	27½
Flintkote (pfd-B 2.25)	36½
GAF Corporation	10⅜
GAF (pfd 1.20)	14½
Gulf & Western	13¾
G&W (pfd 2.50)	31¾
G&W (pfd 3.87)	68⅜
IC Industries	23⅛
IC Ind. (pfd 3.50)	40
Jim Walter Corporation	27⅜
Jim Walter (pfd 1)	10⅛
Jim Walter (pfd 1.60)	29⅛
Johns-Manville	22⅞
Kennecott Copper	20⅛
Lear Siegler	15⅝
Lear Siegler (pfd 2.25)	39
Maremont	17⅞
McAdam Mining	C$.26
National Gypsum	16¼
Pathfinder	C$.25
Porter, H.K. (pfd 5.50)	75⅝
Raybestos-Manhattan	26⅝
Rio Algom	C$33.125
Supradur	Bid 4¾; Asked 5½
Union Carbide	34¼
Woodsreef Minerals	C$.38

ASBESTOS DETERMINATION—SHORT COURSE

The Mineralogical Association of Canada will sponsor a Short Course in Mineralogical Techniques of Asbestos Determination on May 20-22, 1979, at Quebec City, immediately prior to the 1979 Joint Meeting of MAC and the Geological Association of Canada. The Course will include several intensive sessions plus visits to the Quebec Asbestos Mining Association's fiber quality testing laboratory at Sherbrooke, Quebec, and an asbestos mill at Black Lake. Sessions will deal with the following topics: Mineralogy and Crystallography of Asbestos, by Dr. F. J. Wicks of the Royal Ontario Museum and Prof. E. J. Whittaker of the University of Oxford; Quality Testing Techniques for Asbestos Fibers, by Prof. M. Cossette of the University of Sherbrooke; Measurements of Chrysotile Microfibers by Optical and Electron Microscopy, by Dr. E. J. Chatfield of the Ontario Research Foundation; Weight Measurements by X-Ray Diffraction and by Infrared Spectroscopy, by Dr. G. Heidermanns, Staubforschunginstitut, West Germany; Weight Measurements by Wet Chemical Methods, by Prof. C. Barbeau of Laval University; Automatic Techniques and Monitoring for Measurements of Chrysotile Fibers in Air and Water, by M. Trudeau of the Quebec Asbestos Mining Association; and Research Perspective, by Prof. G. W. Gibbs of McGill University. The Course is designed for those who have some basic understanding of the asbestos mineral group, including physical methods in determinative mineralogy. For additional details, contact: Prof. R. L. Ledoux, Department of Geology, Laval University, Quebec, Quebec G1K 7P4, Canada—Telephone (418) 656-2177.

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BIRTHDAY GREETINGS to . . .

R. L. Schult, National Sales Manager, Union Carbide Corporation, Metals Division, Niagara Falls, New York, February 17.

E. R. E. Carter, Chairman of the Board and President, Advocate Mines Ltd., Toronto, Ontario, February 20.

James K. Gilmore, Sales Manager, Vermont Asbestos Group, Inc., Hyde Park, Vermont, February 20.

Michael J. Messel, President and a Director, Lac d'Amiante du Quebec Ltee., Black Lake, Quebec, and Vice President, Asarco Inc., February 22.

Dr. R. J. Bishop, Joint Managing Director, TAC Construction Materials Ltd., Trafford Park, Manchester, England, February 23.

Frank G. Mestnik, Director of Business Development and Planning, Raybestos Manhattan Industrial Products Co., N. Charleston, S. Carolina, February 23.

Charles M. Fenton, Vice Chairman and Group Managing Director, BBA Group Ltd., Cleckheaton, West Yorkshire, England, February 24.

D. J. Barboure, Managing Director, Turnall Ltd., Jacobs, Durban, Natal, Republic of South Africa, February 26.

William R. Bond, Chairman of the Board, Cement Asbestos Products Company, Birmingham, Alabama, February 28.

John S. Autry, Vice President in charge of Public Affairs Office, Johns-Manville Corporation, Washington, D.C., March 1.

K. M. Haapanen, Production Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, March 1.

John L. Rainey, President, Amatex Corporation, Norristown, Pennsylvania, March 1.

R. W. Whittell, Managing Director, Scandura Ltd., a subsidiary of BBA Group Ltd., Cleckheaton, Yorkshire, England, March 1.

A. C. Steele, Assistant Vice President-Sales, Asbestos Corporation Ltd., Montreal, Quebec, March 2.

James E. Sullivan, President, Pacor, Inc., Philadelphia, Pennsylvania, March 3.

B. G. Hill, Chief Executive, Automotive Components Division, and a Director, Turner & Newall Ltd., Manchester, England, March 5.

A. E. Murray, Managing Director, Cape Insulation (Ireland) Ltd., Dublin, Ireland, March 6.

H. B. Rhodes, Marketing Services Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, March 6.

C. D. Colson, Marketing Manager, Textile Group, Raybestos Manhattan Industrial Products Co., N. Charleston, S. Carolina, March 8.

D. W. Hills, an Executive Director of Turner & Newall Ltd., and Chief Executive, Plastics and Industrial Materials Division, Manchester, England, March 9.

M. P. Carson, Executive Vice President, Asbestos Corporation Ltd., Montreal, Quebec, March 10.

M. C. Pretorius, Chairman of Payen Components South Africa, Ferodo (Pty), Turnall (Cape) and Turnall, Republic of South Africa, March 10.

John Fear, Plant Industrial Engineer, Cement Asbestos Products Company, Van Buren, Arkansas, March 12.

Paul A. Filteau, Executive Vice President, Quebec Asbestos Mining Association, Quebec City, Quebec, March 12.

G. P. Loubert, President, Johns-Manville Canada, Inc., Asbestos, Quebec, March 13.

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MEN ON THE MOVE

CASSIAR ASBESTOS CORPORATION LTD.

J. Douglas Little has been appointed President and Chief Executive Officer of Cassiar Asbestos Corporation Ltd., effective January 1, 1979, succeeding *Peter Steen* who is now with Inspiration Consolidated Copper Company in Arizona. Mr. Little has been involved with the Vancouver mining industry for several years and is a former Executive of Placer Development Ltd. He is also active in the affairs of the Mining Association of British Columbia.

EVERITE LTD.

H. Thoeni was named Deputy Chairman of Everite Ltd., in succession of *Dr. M. Graf.* Mr. Thoeni also continues as Everite's Managing Director. Last year the company acquired the Vianini Pipes Group and Pipekor (Pty) Ltd., two large producers of pipe products.

RAYBESTOS-MANHATTAN, INC.

James F. Maclachlan has been elected Executive Vice President of Raybestos-Manhattan, Inc., responsible for the Corporation's planning program, implementation of the management information system and other assignments directed toward long-term growth of the firm. He joined R/M in 1969 and most recently has been Senior Vice President and President-Industrial and Consumer Products.

SOUTHERN TEXTILE CORPORATION

Southern Textile Corporation (formerly: Southern Asbestos Company) announced the addition of *Maxine G. Fairchild* as Sales Service Representative at its facility at Charlotte, North Carolina. Ms. Fairchild had been Field Sales Representative for Kraft Inc. Her new duties with Southern will be expediting customer inquiries, coordinating orders and contracts and general customer service.

W. H. FOSTER—RETIRES

Having reached the honorable age of 65, *William "Harry" Foster* retired as Vice President of Operations for Asbestos Corporation Ltd., effective December 31, 1978. During his 31 years of service to the Corporation and to the Asbestos Industry, he held the title of Underground Superintendent, Chief Mining Engineer, Plant Manager-Normandie and Manager of Engineering. He had been Vice President of Operations for the past six years. Mr. Foster will continue in the Industry as a Mining and Asbestos Consultant.

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Remember When?

(December 1928 ASBESTOS)

This was the first issue to contain quotations on the stock of publicly-held asbestos companies. The original list contained this data on six companies, namely; CertainTeed, Johns-Manville, Raybestos, Ruberoid, Southern Asbestos and United States Asbestos.

A thumbnail biography of A. S. Runacres, Sales Manager of Cyprus Trading Corporation Ltd., was published in this issue.

Also included were pictures of the three newly-named Vice Presidents of Union Asbestos & Rubber Company, along with brief descriptions of their past business experience and new duties. The men were J. H. Kuhns to be in charge of railroad sales, W. R. Gillies to handle production and development and R. Wild (formerly with Cape Asbestos Company and with U.S. Asbestos Company) to take charge of commercial sales.

On the social side, ASBESTOS reported the marriage of Miss Estelle Manville, daughter of H. E. Manville, to Count Folke Bernadotte, nephew of King Gustav V of Sweden. The father of the bride was, at the time, Chairman of the Board of Directors of Johns-Manville Corporation.

The Celite Products Company of Los Angeles, California, manufacturer of high temperature insulation and allied lines, was acquired by Johns-Manville Corporation. Celite was the owner of the world's largest deposit of diatomaceous earth, the primary ingredient of many high temperature insulations and an excellent filtration medium. Celite also owned the National Magnesia Manufacturing Company of Redwood City, California.

It was announced that the amalgamation of Bell's United Asbestos Company and Turner & Newall Ltd. had been formally and legally completed. This purportedly made Turner & Newall the largest controller of asbestos interests in the world.

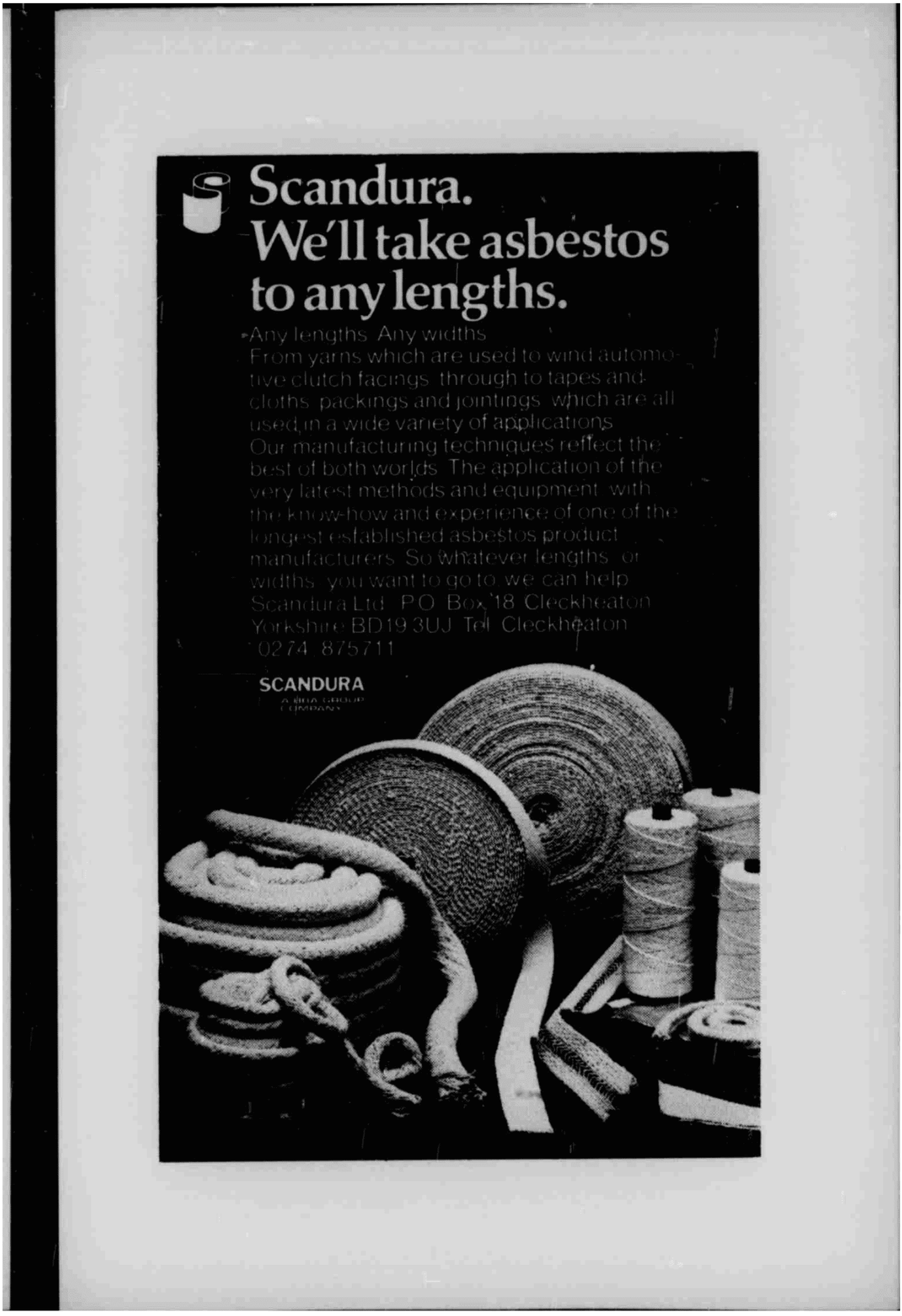
(January 1929 ASBESTOS)

Under the title "A Backward Glance," ASBESTOS published a brief summary of important happenings in the Industry during the year 1928. This marked the beginning of the traditional "Year in Review" which has become an annual feature of the Magazine.

Another "first" was publication of "The Outlook for 1929," wherein a number of leaders of the Industry commented on the year just past and ventured their predictions for the year to come. This, too, was to become a permanent part of each January issue.

News of hyper-activity in connection with asbestos mining in South Africa continued to pour in. Comments on no less than ten different companies engaged in such developments appeared in this issue.

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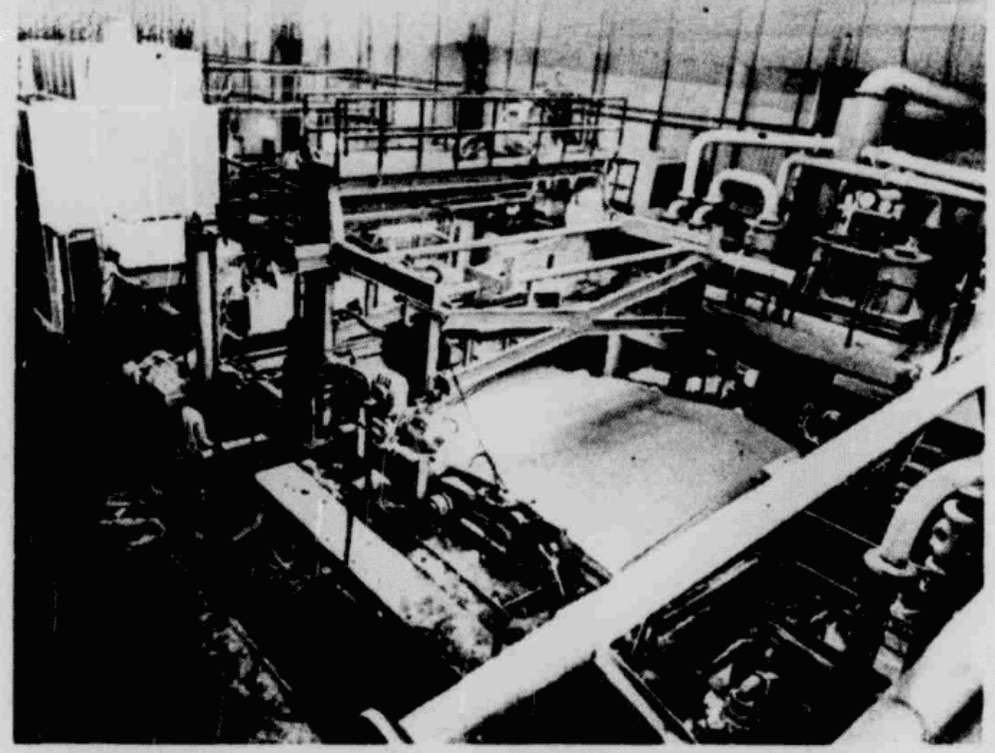
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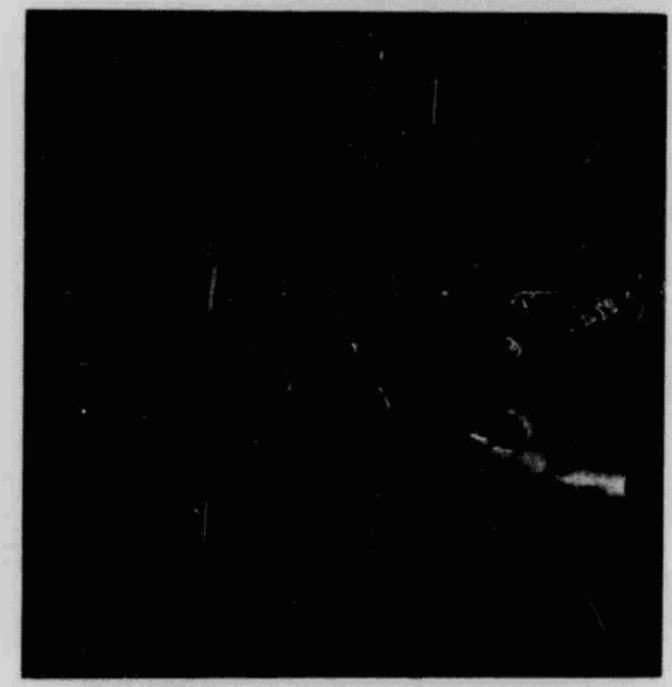
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