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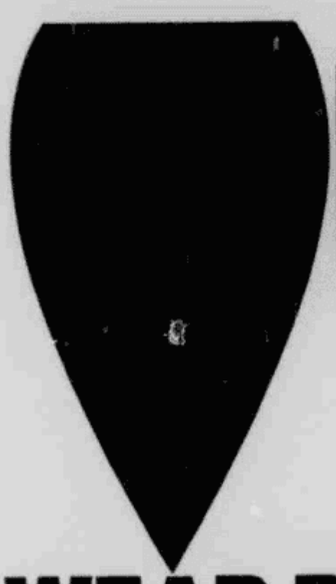
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VOLUME 60 **APRIL 1979** **NUMBER 10**

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"PROTO" RESCUE TEAMS

PREFACE

Underground mining is a relatively hazardous industry. Despite the most extensive precautions, accidents will happen. In such cases, losses of life and physical damage can often be limited by prompt and intelligent corrective action. In Rhodesia, considerable success in coping with mining emergencies has been achieved through the formation and use of well-trained rescue teams.

This article and accompanying photographs were obtained through the courtesy of John Cockbill, Editor of The Chamber of Mines Journal. The information is based on data compiled by Greg. Phimister, Specialist Engineer (Ventilation), Department of Mining Engineering, Ministry of Mines, Rhodesia. Mr. Phimister has been associated with mine rescue on the Copperbelt for the past thirty years and is thoroughly versed on the formation, training and functioning of the so-called "Proto" Rescue Teams in Rhodesia.

FUNCTIONS OF THE "PROTO" TEAM

It need hardly be explained that mine rescue teams are equipped with self-contained breathing apparatus for use when working in toxic atmospheres. "Proto" is the tradename of one piece of equipment of this type. Although other makes of equipment are in general use, "Proto" is probably the most widely used in Rhodesia, hence the tendency to refer to rescue teams in the area as "Proto" teams.

It should be emphasized that the work of these teams is not confined to rescuing injured men. Indeed, much of their effort concerns the prevention of damage to property, as in underground fires; but the first priority, of course, is always to save life.

In mining, as elsewhere, rescue and recovery work may be carried on by anyone and many acts of heroism are on record. However, too often the would-be rescuer is killed or injured and this is frequently due to bravery without skill or without the recognition of danger. For these reasons, particularly in mining, rescue teams are organized and the men concerned are carefully selected and trained in various techniques and in the proper use of specialized equipment.

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CONDITIONS URGENT & DANGEROUS

The extent or circumstances of any abnormal occurrence underground is seldom quickly apparent and it is often in an atmosphere of doubt and uncertainty that rescue operations must commence. Frequently the work must be done under very difficult conditions complicated by lack of illumination, confined space, possibly great heat and dangerous concentrations of gas. Invariably there is a tremendous degree of urgency.

It is under these conditions that a team of men, trained and disciplined, must effect rescues, render first aid, give a clear and accurate assessment of the situation and go on to save property from further damage—all in a manner designed to ensure their own safe return to the surface.

THE RESCUE STATION

Insofar as the organization of a team is concerned, a rescue station is essential. The building selected for this purpose should be close to a main shaft head and should be linked directly to the transportation system serving the shaft. To house the equipment required by, say, three teams of seven men each, the building must be large, well ventilated and preferably divided into one large equipment room and a smaller briefing room. Ideally, a changehouse complete with showers and toilets should be located nearby. Adjacent to the station should be an aviary housing about twenty canaries.

The larger room should provide open compartments for equipment storage. Each compartment is clearly marked with the name of a team member and contains a full set of breathing apparatus, spares and accessories for his exclusive use. The room also provides storage space for other rescue equipment such as saws, axes, ropes, jacks, chain blocks and first-aid boxes complete with resuscitators as well as electrically-powered oxygen pumps and an ample number of cylinders of medical oxygen with appropriate fittings.

The smaller room serves as a briefing and debriefing center and should be supplied with a complete set of mine and ventilation plans, telephones, a tape recorder and other paraphernalia for making notes and developing operational plans.

BREATHING APPARATUS

The "Proto" breathing set is self-contained and carries an oxygen supply good for about two hours "running time." Great care

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must be taken by the user to adjust the set to fit properly which dictates the provision of separate storage compartments in the storage room. The complete set weighs nearly 38 pounds and can be used with goggles to protect the eyes in case of fire underground. It is tempting to use chemical masks in atmospheres which are dangerous, but not lethal, but this practice is discouraged since it is difficult to distinguish between a slightly dangerous and a deadly atmosphere. It is, therefore, strongly recommended to be fully protected by wearing the self-contained breathing apparatus at all times.

PROPER SELECTION OF TEAM MEMBERS

Great care must be taken to choose the right men for training to be members of "Proto" teams. They must be cool, courageous, unexcitable and willing to take orders. The most important requisite is the ability to obey an instruction—at once. Courage, of course, is essential but the person who takes undue risks might well kill or injure himself or, more importantly, might place the rest of the team in jeopardy.

Members of rescue teams are all volunteers but are usually paid a small monthly retainer and a set sum for rescue work based on the time in action underground or on standby. The money earned in no way compensates for the risks involved. The real inducement to volunteer must stem from a sincere desire to help others in time of trouble.

PHYSICAL TESTING & TRAINING

All new team members are subject to a strict physical examination and to further examinations at regular intervals. Teams are made up of men under 45 years of age (a medical requirement) and are drawn from all underground occupations, especially from production, engineering and ventilation personnel. A team consists of not less than five men and the number seldom exceeds six in action at any one time. This arrangement has evolved over the years and appears to be most satisfactory as to mobility, control and safety.

Training is usually carried out in three parts:

(1) Initial training at a central rescue station serving a major mining field.

(2) Quarterly refresher training at the rescue station.

(3) "On-the-mine" training where teams carry out realistic exercises designed to simulate conditions as in an actual underground accident.

The initial training course lasts four or five days and includes familiarization with the basic equipment, wearing and walking

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about with the equipment for short periods, wearing the equipment in a smoke chamber and performing simple tasks and, finally, wearing the set in a smoke chamber and performing arduous tasks for extended periods. At all times when the "Proto" equipment is worn, the men are rested at frequent intervals and their vital signs are carefully monitored.

Team training at quarterly intervals at a central rescue station consists of one session for only two hours, but the work involved is quite strenuous. The smoke chamber is full of real fumes and gases. Much heat is generated from a wood stove and the relative humidity of the air is increased by using wet sacks and water sprays. This exercise demonstrates the efficiency of a team under nearly actual conditions.

On-the-mine training is the most important of all, provided the exercises are well designed and do, in fact, simulate conditions as in an actual accident or other underground emergency. The atmosphere in such an exercise should be realistic—so much so that a team should not know if the "call-out" is a training exercise or a genuine emergency until the test is well under way. Such drills should take place at any time of day or night with no pre-warning. It is most important to do this and to train hard and frequently. Only through such training can a man learn his own capabilities and gain confidence in his equipment, his teammates and his captain, thus building up the team spirit essential in mine rescue work.

AVAILABLE INDUSTRY-WIDE

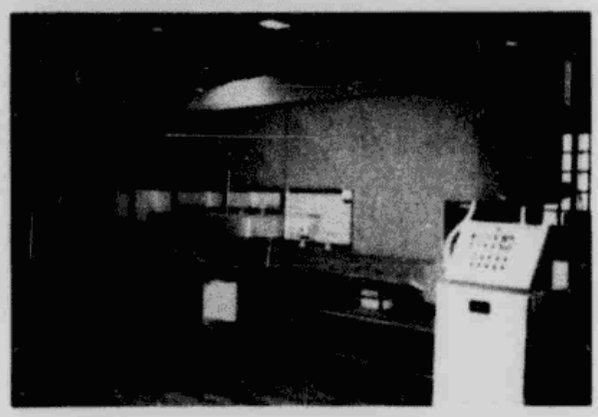
It is encouraging to learn that safety-first training is being taken so seriously in Rhodesia. It has been stated that the Wankie Colliery Company has now made its rescue training center available to the Rhodesian mining industry as a whole, which is of great help to mines just starting their own team-training programs.

It might also be mentioned that the Executive Committee of the Chamber of Mines of Rhodesia has agreed to present a blazer badge, incorporating the Chamber's Coat of Arms, to employees in the industry who complete the required training and become members of a mine rescue team. Employees at several asbestos mines in Rhodesia are among those who are trained members of "Proto" Teams.

THE COVER: *Left—"Proto" team on the Copperbelt in Rhodesia; Right—Trainees and instructor at the "Proto" Training School at Wankie.*

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U.S. ENVIRONMENTAL UP-DATE

SPRAYED ASBESTOS IN SCHOOLS

In December 1978, the Environmental Defense Fund (EDF) filed a citizens' petition requesting the U.S. Environmental Protection Agency (EPA) to immediately initiate a rulemaking under the Toxic Substances Control Act to control asbestos emissions from spray-on materials which had been applied in public school buildings. In January 1979, the Subcommittee on Elementary and Secondary Education, U.S. House Education and Labor Committee, began hearings on the issue of public school ceilings sprayed with asbestos. [See February 1979 ASBESTOS, page 21]

Last month the House subcommittee voted unanimously to establish a $30-million federal grant fund to assist school boards in trying to detect and clean up the asbestos and to direct the federal government to seek to recover the money from asbestos-related companies, through court action if necessary. Also favored was an open-ended loan fund to meet as much as half of a school board's cost in removing sprayed-on asbestos ceilings, soundproofing and fireproofing found to be creating an "imminent" health hazard. The measure is now ready for full committee consideration.

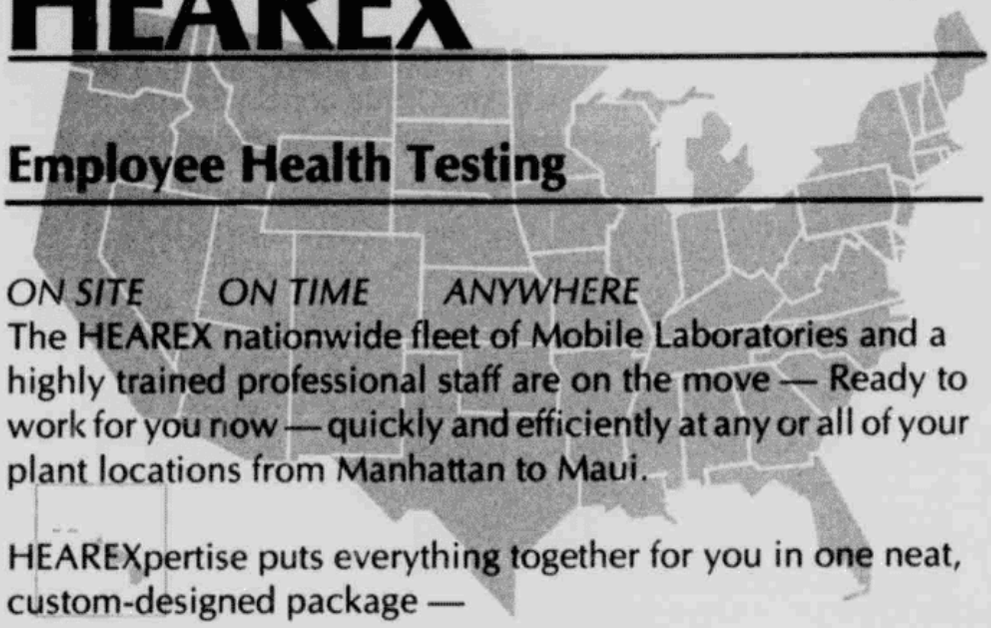
Later in March, EPA announced the initiation of a nationwide information/technical assistance program to encourage states and school districts to identify and control exposure problems caused by asbestos-containing materials in school buildings. EPA will distribute the comprehensive guidance packages to states and school districts and provide technical assistance through its regional offices. The agency will also collect data on the extent of asbestos exposure problems in school buildings and of actions taken to correct the problems. Owners of buildings other than schools can obtain the same information upon request to EPA. It is expected that most states will soon have the programs underway. In fact, over 30 states already have begun similar projects. The success of its program, says EPA, depends on maximum local, state and federal cooperation. EPA has coordinated the program with the U.S. Department of Health, Education and Welfare and the U.S. Occupational Safety and Health Administration. [March 23, 1979, Federal Register, pages 17790-91]

Via a decision issued March 21, 1979, Douglas M. Costle, EPA Administrator, has denied the citizens' petition filed by EDF. Although EPA has the same overall objective as does EDF (to

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reduce the risk posed by asbestos in public schools), the agency believes the actions requested in the petition are not the best ways to achieve that objective. Mr. Costle concludes that the non-regulatory program (as outlined in the prior paragraph) is likely to achieve comparable results in far less time and without the drawbacks of a regulatory approach. He further stated that the need for future federal regulatory action will be re-evaluated should EPA find that state and local efforts are unsuccessful. [4/4/79 FR, pages 20290-95]

DOT EXTENDS EFFECTIVE DATE

The Materials Transportation Bureau, U.S. Department of Transportation, revised Amendment No. 173-123 regarding the transporting of asbestos, as published in December 1978. [See February 1979 ASBESTOS, page 22] The revision will allow shipments of asbestos when packaged in bags or other non-rigid packages to be transported in closed freight containers, motor vehicles or rail cars when loaded by the consignor and unloaded by the consignee—or in bags and other non-rigid packagings which are dust and sift proof and palletized and unitized. Unitized loads in slings need not be palletized during transportation by vessel. The effective date of the entire Docket HM-160 is revised from April 30, 1979, to August 20, 1979. [3/29/79 FR, pages 18673-74]

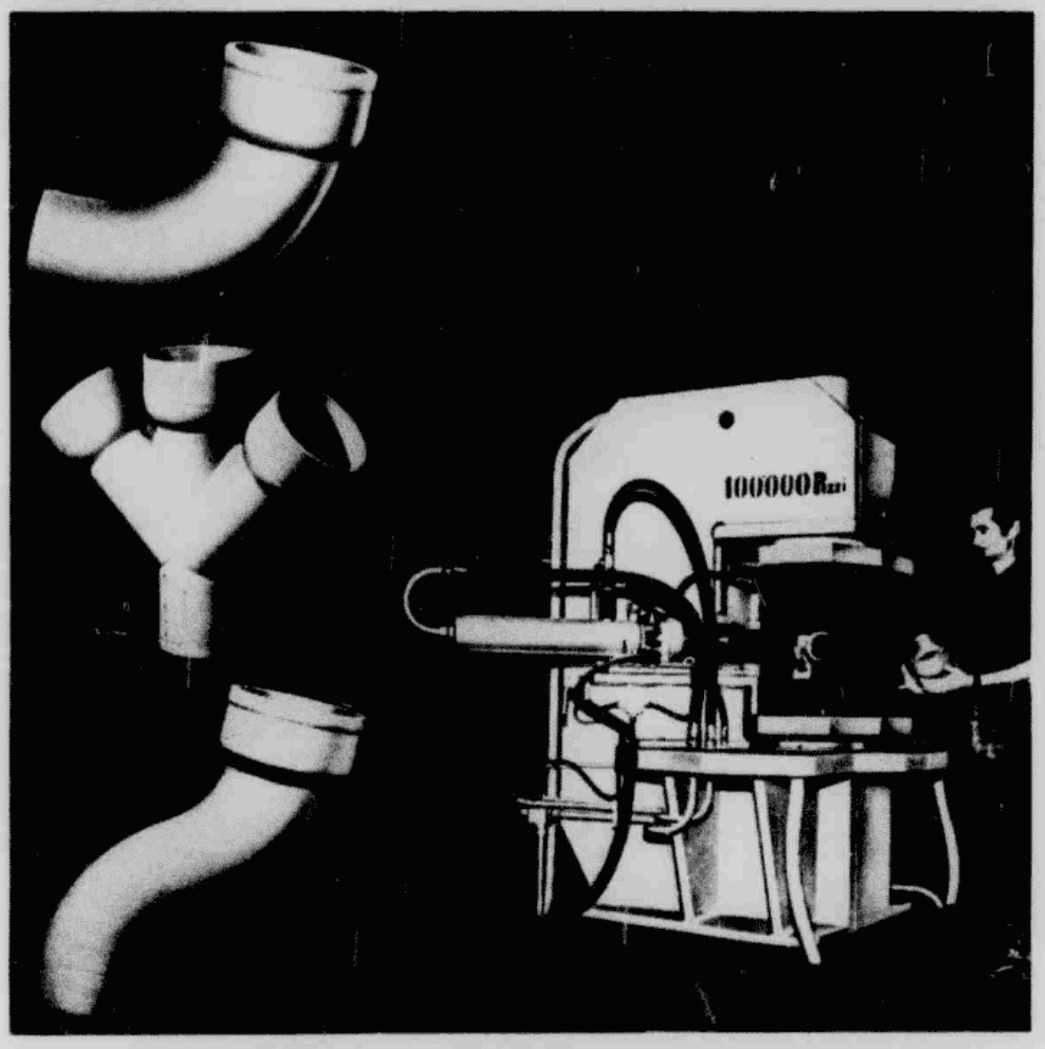
NIOSH HEALTH/SMOKING DOCUMENT

There is increasing evidence of adverse health effects due to the combined actions of tobacco use and exposure to chemical and physical agents in the workplace. The U.S. National Institute for Occupational Safety and Health (NIOSH) recommends that the use of and/or carrying of tobacco products into the workplace be curtailed in situations where employees may be exposed to physical or chemical substances which can interact with tobacco products, and that the curtailment be accompanied by simultaneous control of worker exposure to physical and chemical agents. NIOSH has prepared a document titled "Adverse Health Effects of Smoking and the Occupational Environment" [Current Intelligence Bulletin 31 dated February 5, 1979] which identifies six ways by which smoking can interact with workplace exposures. The Institute requests the data be transmitted to customers, employees and unions. References pertaining to the hazards of asbestos exposure and smoking are given.

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STANDARDS/CENSUSES/PRODUCT LIABILITY

FTC STANDARDS PROPOSAL OPPOSED

According to the American National Standards Institute (ANSI), a preliminary survey indicates that all major standards developers will oppose the Trade Regulation Rule on Standards and Certification, proposed by the U.S. Federal Trade Commission [12/7/78 FR, pages 57269-84]. ANSI states the Commission has not proved its case and the rule will seriously damage the effectiveness of the voluntary standards system and, therefore, will hurt, not help, small business and consumers. ANSI says the rule also raises serious constitutional questions. Hearings on the proposal will be held May 21, 1979, in San Francisco, California, and June 25, 1979, in Washington, D.C.

CENSUS BUREAU ACTIONS

The Bureau of the Census, U.S. Department of Commerce, announced that the results of the 1977 Economic Censuses are now being issued. For a free copy of the Publication Program, with brief descriptions of the hundreds of reports available, write: Subscriber Services (Publications), Bureau of the Census, Washington, D.C. 20233. . . . A Notice of Consideration was issued that the Census Bureau plans to conduct, as part of the 1977 Census of Mineral Industries, a sample survey requesting supplementary information on supplies consumed under the authority of Title 13, United States Code, Sections 193 and 225. A similar notice was published, as part of the 1977 Census of Manufactures, to request data on the consumption of materials, parts, containers and supplies. The surveys will provide basic statistical data for the input-output tables which form the benchmark for Gross National Product estimates. [3/23/79 FR, page 17765; 3/29/79 FR, page 18719]

PRODUCT LIABILITY DRAFT LAW

The Commerce Department has sought public comment on its Draft Model Product Liability Law, after which the law will be revised for review by the Administration and a final version will be published as a model law for use by the states. The model law ensures that a person injured by an unreasonably unsafe product receives reasonable compensation for his or her injury. However, a product seller is not made to pay merely because his product caused an injury. [1/12/79 FR, pages 2995-3019]

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MARKET CONDITIONS

GENERAL BUSINESS

Overshadowing domestic developments near the end of March was the signing of a peace treaty by Egypt and Israel, formally ending thirty years of hostilities between the two nations. Successful culmination of negotiations was largely due to Mr. Carter's persistence as a mediator and he deserves much credit for fostering this major step toward world peace.

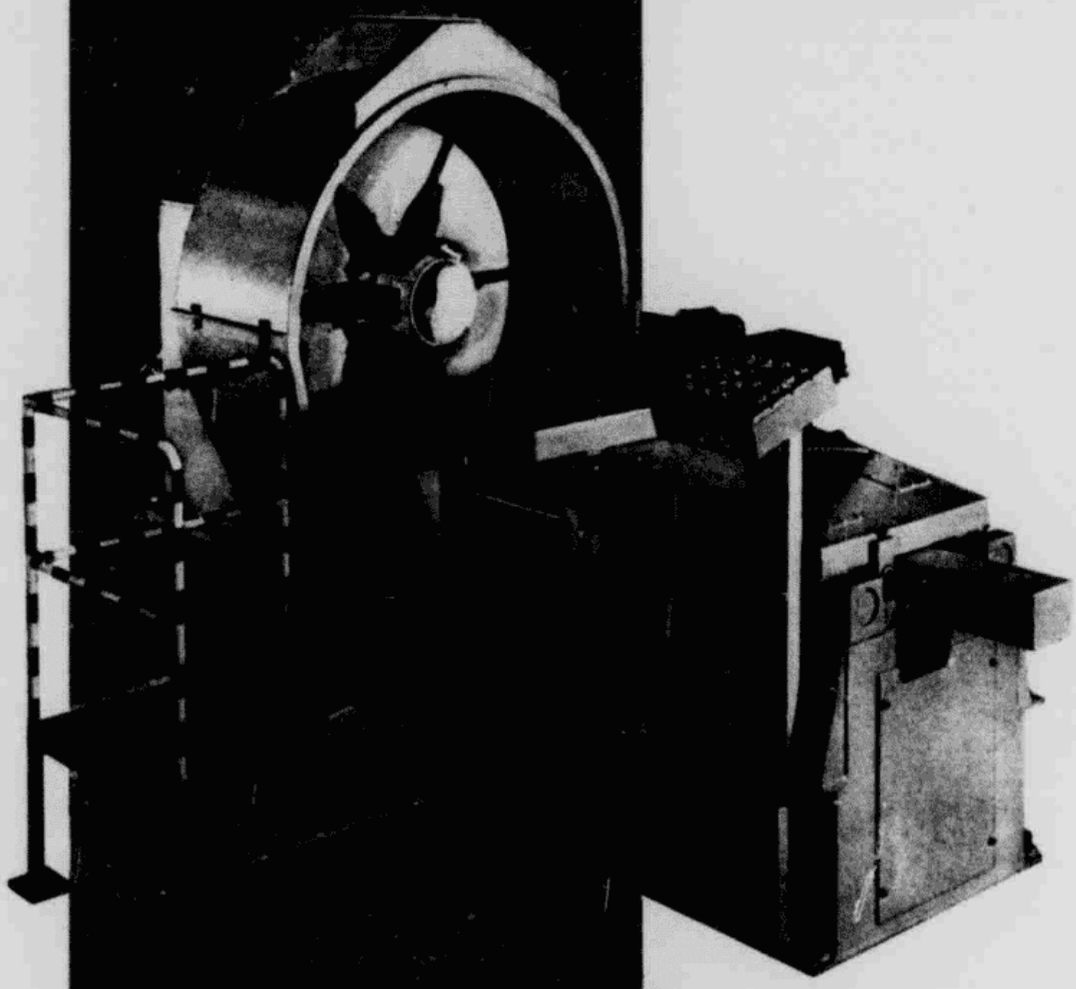
On the economic front, the OPEC nations have agreed on a 9% increase in their official price for oil and also on a policy of permitting individual producers to add whatever surcharges the spot market will bear. Coming when U.S. imports have reached new all-time highs and when inflation in this country has again hit double-digit rates and shows no signs of abating, the rise will put a further pinch on the already hard-pressed U.S. consumer. Unfortunately, after two years of shoving and hauling, this nation has failed miserably to come to grips with its energy problems, particularly with respect to its ever-increasing dependence on foreign oil as its prime source of energy.

Meanwhile, the general economy continues to show few signs of starting the decline which has been so widely predicted. High interest rates and bad weather have combined to cause a substantial drop in housing starts but this is one of the few signals that a business contraction may have begun. The ebullience of many businesses after an upturn of unprecedented length is leading to shortages of numerous raw and semi-finished materials and to strong upward pressures on prices. While most manufacturers have kept inventories under reasonably tight control over the past few years, there are signs that accumulation is now taking place at an accelerated rate as processors try to protect themselves against the shortages which seem imminent in some lines. This change could presage problems in the event of a sharp contraction in demand.

The current high level of business activity has been largely due to heavy consumer spending. With increasing inflation, higher fuel prices and an approach to the limits of consumer credit, a slowdown in such spending seems unavoidable. This could trigger a halt in the present expansion and start a downtrend of unpredictable dimensions.

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Unofficial figures for 1978 Canadian shipments of asbestos were 1,507,945 tons, a 5% decrease from the 1977 total of 1,590,835 tons. Although some of the decline can be attributed to lowering of inventories and the continued slow recovery of the economies of major asbestos using countries, work stoppages at Advocate Mines, Carey-Canadian Mines and Cassiar also resulted in the tightening of supply of some grades of fiber. The closing of Cassiar's Clinton Creek Mine will result in the loss of annual production capacity of slightly over 100,000 tons. . . . The fourth quarter of 1978 showed an 8% improvement in fiber shipments over the same period in 1977 and initial indications are that this trend has continued into the first quarter of 1979. Demand for asbestos-cement grades of fiber in the International Market continues to improve and demand for the shorter Group 7 fiber continues strong in both the United States and International Markets. . . . There continues to be a growing concern about the strength of the U.S. economy in the latter half of 1979. However, as economic recovery in Europe and other parts of the world becomes firmly established, investment needs and the demand for asbestos fiber, cement and other building materials can be expected to grow.

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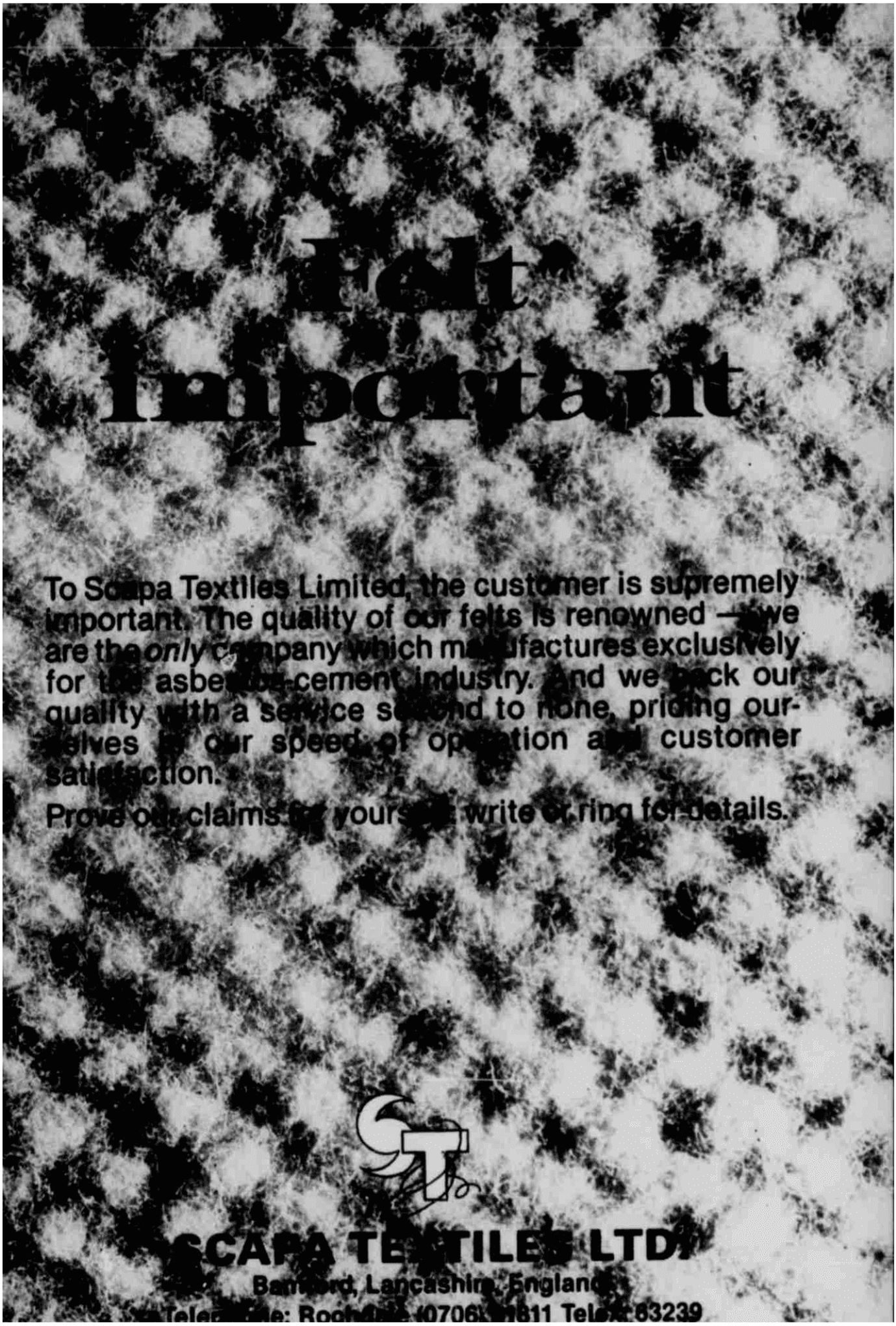
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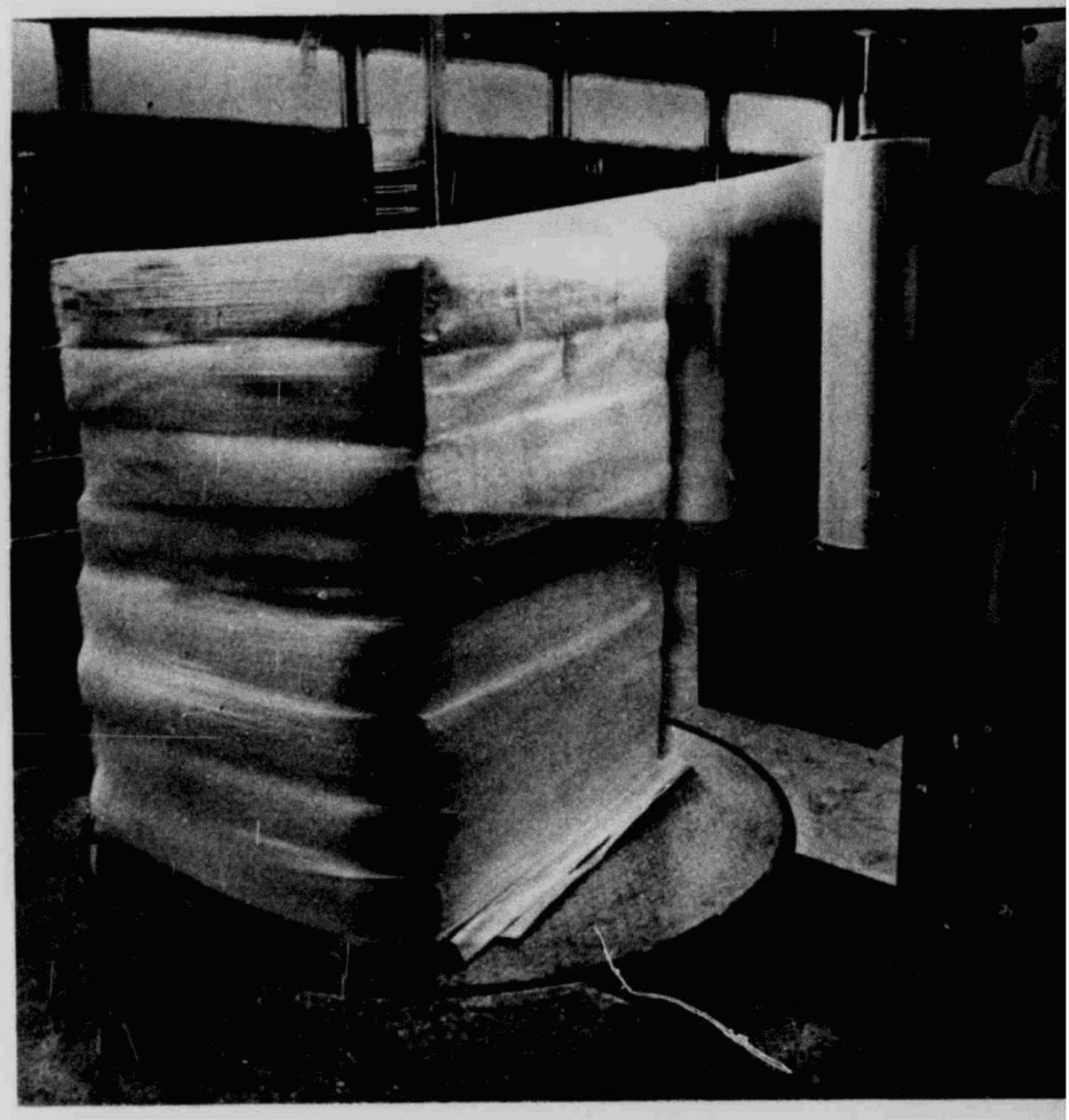
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PRODUCTION—IMPORTS—EXPORTS

WOODSREEF PRODUCTION—Chrysotile Corporation of Australia Pty. Ltd. *produced* 37,202 metric tonnes of asbestos during the period *July 1978-December 1978* at its Woodsreef Asbestos Mine, Barraba, New South Wales. Output during past like periods was 34,029 tonnes for the six months to December 1977 and 32,459.5 tonnes during the half year to December 1976. Total production since the complex began operating in *February 1972 through December 1978* amounted to 350,378.5 tonnes.

CANADIAN PRODUCT/FIBER IMPORTS—Canada *imported* C$26,769,000 worth of *asbestos-containing products* in the *Year 1978* compared with $22,497,000 in 1978 and $20,674,000 in 1977. A breakdown, by product category, for the latest year is: vinyl-asbestos floor and wall tiles—$259,000 (140,038 square yards; 117,090 square meters); asbestos cloth, dryer felts and sheets—$4,504,000; asbestos packing—$2,258,000 (1,385,881 pounds; 628,621 kilograms); asbestos brake linings—$6,758,000; asbestos clutch facings—$1,258,000; asbestos-cement shingles and siding—$78,000; asbestos-cement boards and sheets—$567,000; other asbestos building materials—$6,770,000; other basic asbestos products—$4,317,000. . . . *Imports* of *unmanufactured asbestos* for the *Year 1978* totaled 834 short tons (756 metric tonnes), valued at $556,000, compared with 4,533 tons valued at $2,035,000 in 1977 and 6,616 tons valued at $2,966,000 in 1976. For the latest year, 508 tonnes valued at $333,000 were imported from the Republic of South Africa, 239 tonnes valued at $220,000 were from the United States and 9 tonnes valued at $3,000 were via Belgium-Luxembourg. [Statistics Canada, Ottawa]

CYPRUS FIBER PRODUCTION—*Production* of asbestos in Cyprus during the *Year 1978* reached 37,874 short tons valued at £4,870,042, down 6.7% in quantity and 5.65% in value from the prior year. Past annual output statistics are 40,595 tons valued at £5.2-million for the year 1977, 38,075 tons valued at £3.8-million in 1976 and 27,930 tons valued at £2.1-million in 1975. [Mines Department, Nicosia]

SOUTH AFRICAN OUTPUT & EXPORTS—*Production* of asbestos for the *First Half of 1978* reached 127,444 metric tonnes, 29% less than in the same period a year earlier. The breakdown, by variety of the mineral, for the latest period is: 18,912 tonnes of Amosite (down 46%), 38,826 tonnes of Chrysotile (down 31%) and 69,629 tonnes of Cape Crocidolite (down 21%). No Anthophyllite was produced in the 1978 period compared with 550 tonnes in the comparable 1977 six months. Transvaal Crocidolite output amounted to 77 tonnes in 1978 vs. no production in 1977. . . . *Exports* for the *First Half of 1978* were valued at R55,169,523, down 18% from the first six months of 1977. By variety of asbestos, the values for the latest half-year are: R10,918,096 for Amosite (down 21%), R5,954,239 for Chrysotile (down 48%) and R38,297,188 for Cape Crocidolite (down 8%). No Anthophyllite was exported in the 1978 period vs. R24,094 worth in the 1977 half-year [Department of Mines, Braamfontein]

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: **NOVEMBER 1978**

Amosite	s.tons	..	$	..
Crocidolite (Blue), South Africa	s.tons	2,581		1,603,433
Chrysotile Crudes, Canada	s.tons	22		2,149
Italy	s.tons	17		938
Chrysotile Spinning Fibers, Canada	s.tons	496		327,042
Chrysotile, Other, Canada	s.tons	52,945		9,704,812
Mexico	s.tons	49		1,096
Other Crudes & Fibers, Canada	s.tons	1,974		427,500
South Africa	s.tons	22		13,852
		58,106	$	12,080,822

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	823,514	$	1,230,684
A-C pipes, tubes & fittings	Lb	2,862,269		424,209
Other asbestos-cement articles	Lb	1,175,737		291,628
Other asbestos articles		..		607,005
			$	2,553,526

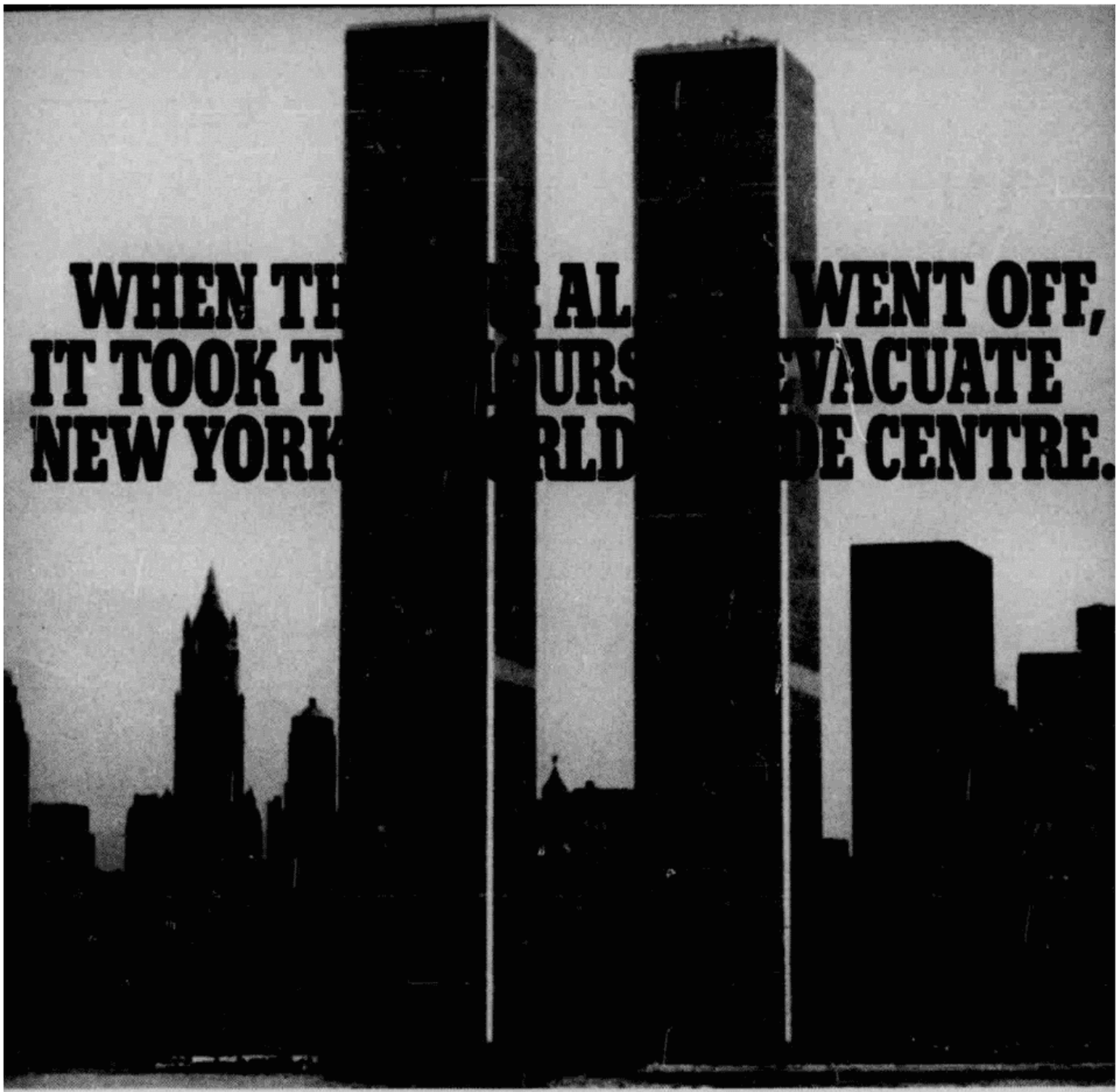
UNMANUFACTURED ASBESTOS: **JANUARY-NOVEMBER 1978**

Amosite, Canada	s.tons	20	$	13,842
South Africa	s.tons	982		507,129
Crocidolite (Blue), Canada	s.tons	144		75,113
South Africa	s.tons	16,009		9,819,199
Chrysotile Crudes, Canada	s.tons	42		15,991
Italy	s.tons	64		5,877
South Africa	s.tons	4,980		1,405,503
Chrysotile, Spinning Fibers, Canada	s.tons	7,560		6,181,924
South Africa	s.tons	55		40,662
Chrysotile, Other, Canada	s.tons	517,327		117,816,569
Mexico	s.tons	201		9,567
South Africa	s.tons	448		299,243
Sweden	s.tons	22		8,325
Yemen	s.tons	48		28,578
Other Crudes & Fibers, Canada	s.tons	18,545		4,186,652
India	s.tons	43		17,027
Italy	s.tons	181		20,958
South Africa	s.tons	1,300		805,631
USSR	s.tons	1,113		324,447
Yugoslavia	s.tons	40		3,248
		569,124		$141,585,485

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	9,376,607	$	15,149,149
A-C pipes, tubes & fittings	Lb	22,639,328		2,896,487

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The bigger the building, the more important fire-proofing becomes.

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Asbestos contains fire, cannot burn and holds up after metal and glass have melted down, giving vital time for people to escape.

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Tokyo, 107, **JAPAN.**
Bookuk and Company Ltd.,
C.P.O. Box 1101, Seoul, **KOREA**

U.S. IMPORTS—CONTINUED

Other asbestos-cement articles	Lb	36,575,498	7,447,952
Other asbestos articles		..	6,839,376
			$ 32,332,964

January-November 1977: U.S. imports of unmanufactured asbestos totaled 561,867 short tons, valued at $134,396,913; imports of manufactured asbestos products were valued at $29,397,433.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: — **NOVEMBER 1978**

Asbestos Crudes, Fibers & Stucco	s.tons	1,028	$ 401,425
Asbestos Sand & Refuse	s.tons	1,140	323,758
		2,168	$ 725,183

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	297,399	$ 403,554
Asbestos-Cement shingles & clapboard	Lb	3,295,132	709,887
Other asbestos-cement articles	Lb	1,294,948	524,900
Asbestos gaskets	Lb	1,287,940	368,215
Asbestos packing & seals	Lb	351,240	1,204,385
Asbestos insulation		..	290,323
Brake linings & disc brake pads		..	3,103,546
Clutch facings & linings		..	830,943
Other asbestos articles		..	3,019,306
			$ 10,455,059

UNMANUFACTURED ASBESTOS: — **JANUARY-NOVEMBER 1978**

Asbestos Crudes, Fibers & Stucco	s.tons	21,996	$ 7,300,341
Asbestos Sand & Refuse	s.tons	19,403	4,410,320
		41,399	$ 11,710,661

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	7,744,127	$ 6,622,553
Asbestos-Cement shingles & clapboard	Lb	22,410,966	4,966,618
Other asbestos-cement articles	Lb	30,214,674	10,738,577
Asbestos gaskets	Lb	5,404,487	3,559,446
Asbestos packing & seals	Lb	5,023,156	10,517,716
Asbestos insulation		..	4,831,000
Brake linings & disc brake pads		..	37,881,592
Clutch facings & linings		..	10,134,458
Other asbestos articles		..	22,386,814
			$111,638,774

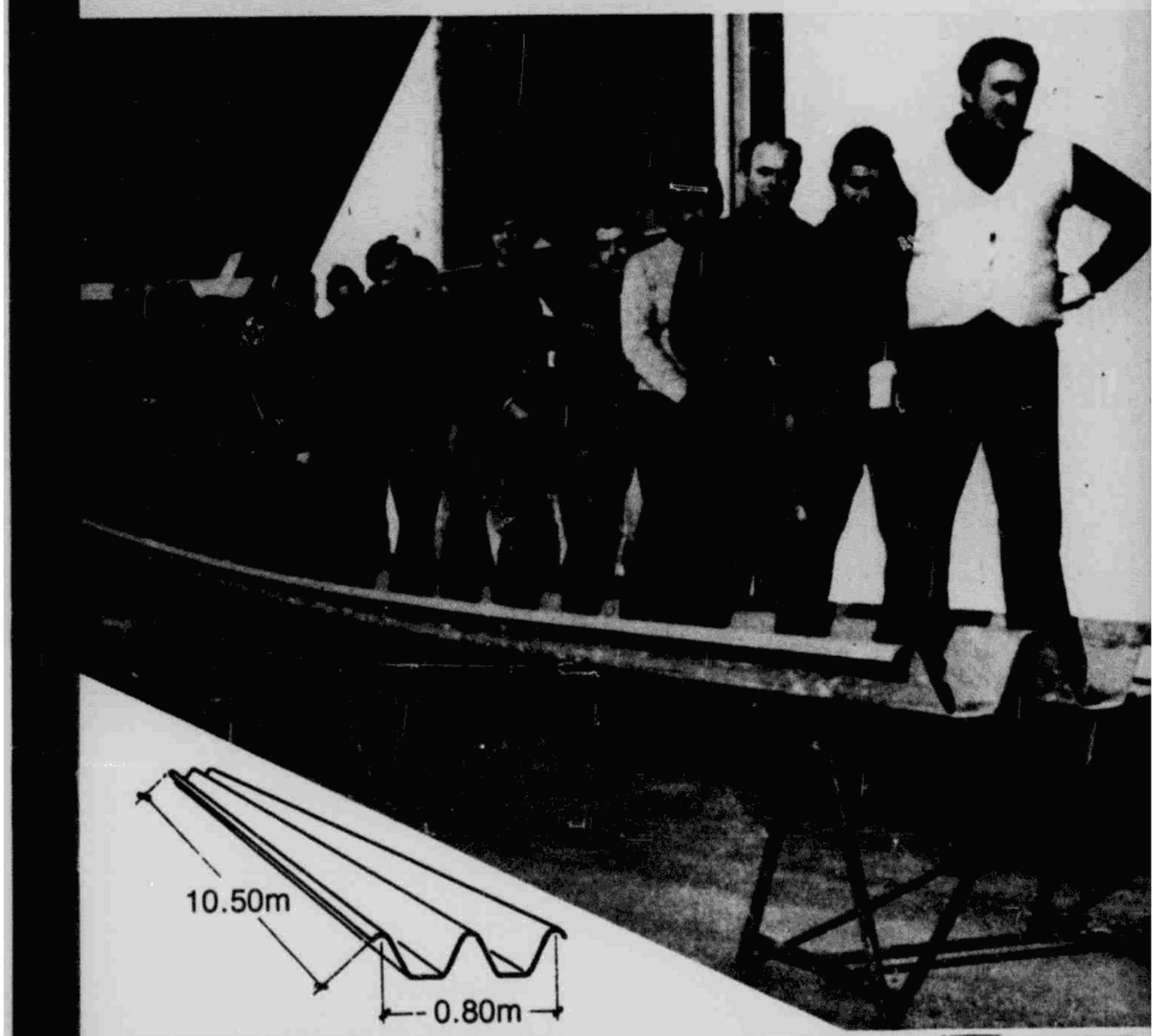
January-November 1977: U.S. exports of unmanufactured asbestos reached 34,665 short tons, valued at $10,779,154; exports of manufactured asbestos products were valued at $71,361,087.

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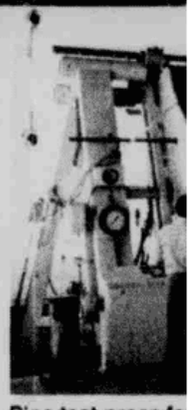
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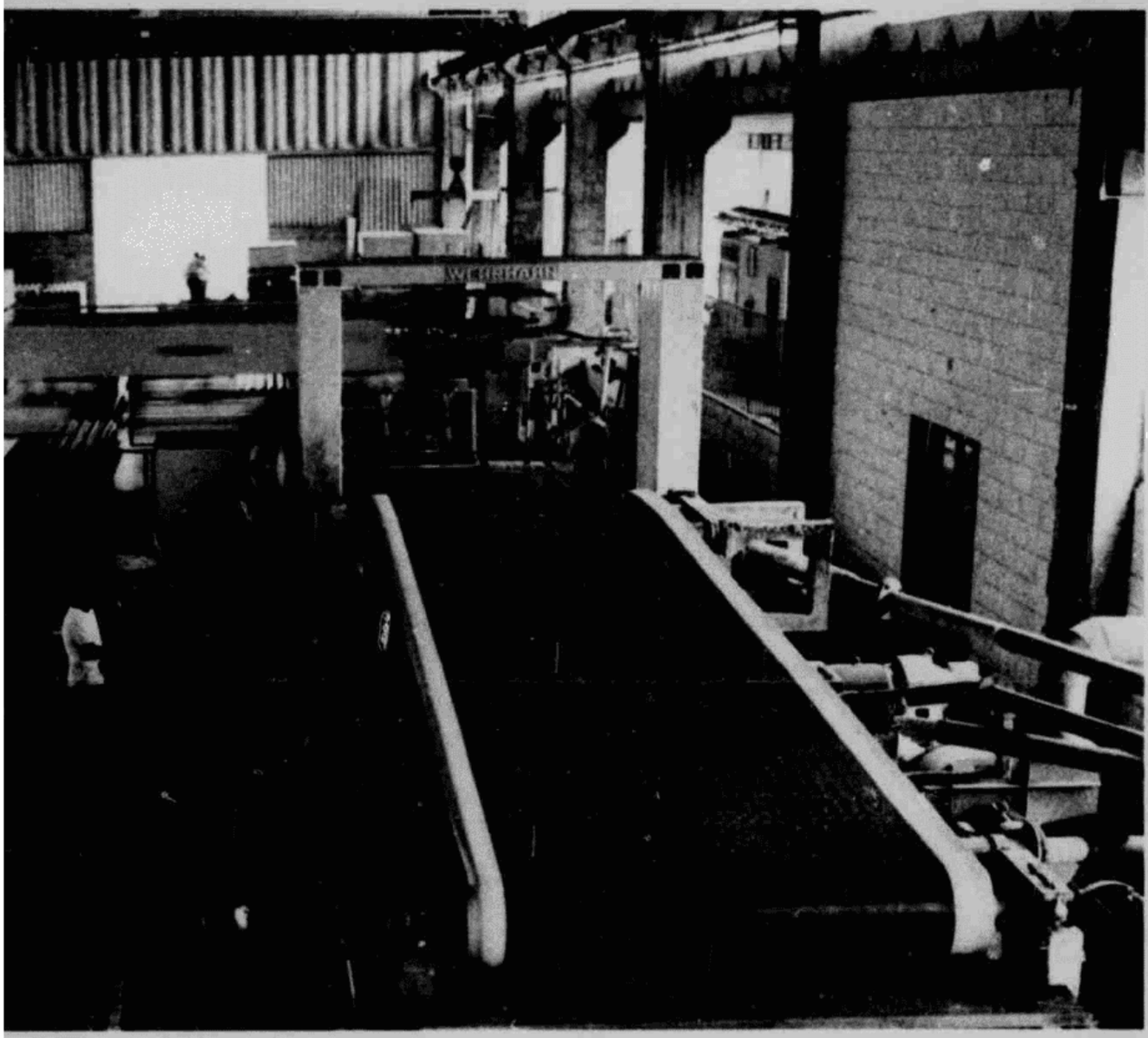


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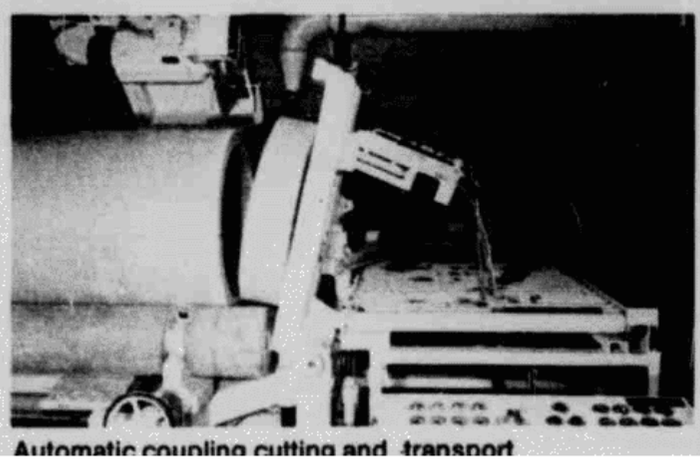
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EXPORTS FROM CANADA

From: Statistics Canada

DECEMBER 1978

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,112	9,706	13,286
Eastern Europe	..	485	4,528	..
Middle East	..	..	3,344	188
Africa	..	..	200	..
Asia	..	340	11,798	13,508
Oceania	..	2	1,072	183
So. & Cen. America & Antilles	..	187	10,405	4,292
United States	..	493	9,492	37,599
	..	2,619	50,545	69,056

The total amount of unmanufactured asbestos exported in *December 1978* was 122,220 short tons, valued at C$44,463,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$	191,000
Asbestos brake linings & facings		334,000
Asbestos-Cement building materials		929,000
Other basic asbestos products		366,000
	C$	1,820,000

YEAR 1978

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	6,956	289,170	150,802
Eastern Europe	..	3,360	37,323	2,056
Middle East	..	140	20,775	2,320
Africa	..	6	10,093	1,265
Asia	..	2,910	106,418	119,329
Oceania	..	12	35,231	2,308
So. & Cen. America & Antilles	..	2,369	106,056	47,380
United States	1	8,648	130,635	455,408
	1	24,401	735,701	780,868

The total amount of unmanufactured asbestos exported in the *Year 1978* was 1,540,971 short tons (1,397,939 metric tonnes), valued at C$568,294,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$	3,826,000
Asbestos brake linings & facings		3,491,000
Asbestos-Cement building materials		14,150,000
Other basic asbestos products		5,351,000
		C$26,818,000

Year 1977: Canadian exports of unmanufactured asbestos totaled 1,560,019 short tons (1,415,218 tonnes), valued at C$553,284,000; exports of manufactured asbestos products were valued at C$25,301,000.

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AMMANN Asbestos Mill



The ONLY DISINTEGRATOR treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestcs Mines of the whole world.

The above illustration shows a large plant comprising several AMMANN disintegrators in an asbestos mine.

U. AMMANN Ltd.

Engineers **CH 4900 Langenthal** **Switzerland**

Cables: Ammannag Langenthal — Telex: Nr. 68446

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CURRENT ASBESTOS PRICES

QUEBEC

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. Mine
Canadian Dollars

No. 2 Crude	$2295
No. 3 Spinning Fiber	$1032—$1606
No. 4 Asbestos Cement Fiber	687— 1011
No. 5 Paper Fiber	388— 537
No. 6 Paper and Shingle Fiber	330— 332
No. 7 Shorts	113— 218

CASSIAR

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.
Canadian Dollars

Cassiar Mine

C-1 —No. 1 Crude	$3621
AAA —Nonferrous Spinning Fiber; Canadian Group 3	2000
AA —Nonferrous Spinning Fiber; Canadian Group 3	1600
A —Nonferrous Spinning Fiber; Canadian Group 3	1050
AC —Nonferrous Spinning Fiber; Canadian Group 3	960
AK —Asbestos Cement Fiber; Canadian Group 4	850
AS —Asbestos Cement Fiber; Canadian Group 4	740
AX —Asbestos Cement Fiber; Canadian Group 4	670
AY —Asbestos Cement Fiber; Canadian Group 5	470
AZ —Asbestos Cement Fiber; Canadian Group 6	340

Clinton Mine

CT —Asbestos Cement Fiber; Canadian Group 4	$ 680
CY —Asbestos Cement Fiber; Canadian Group 5	470
CZ —Asbestos Cement Fiber; Canadian Group 6	340

VERMONT

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont
U.S. Dollars

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

ARIZONA

As of July 1, 1976

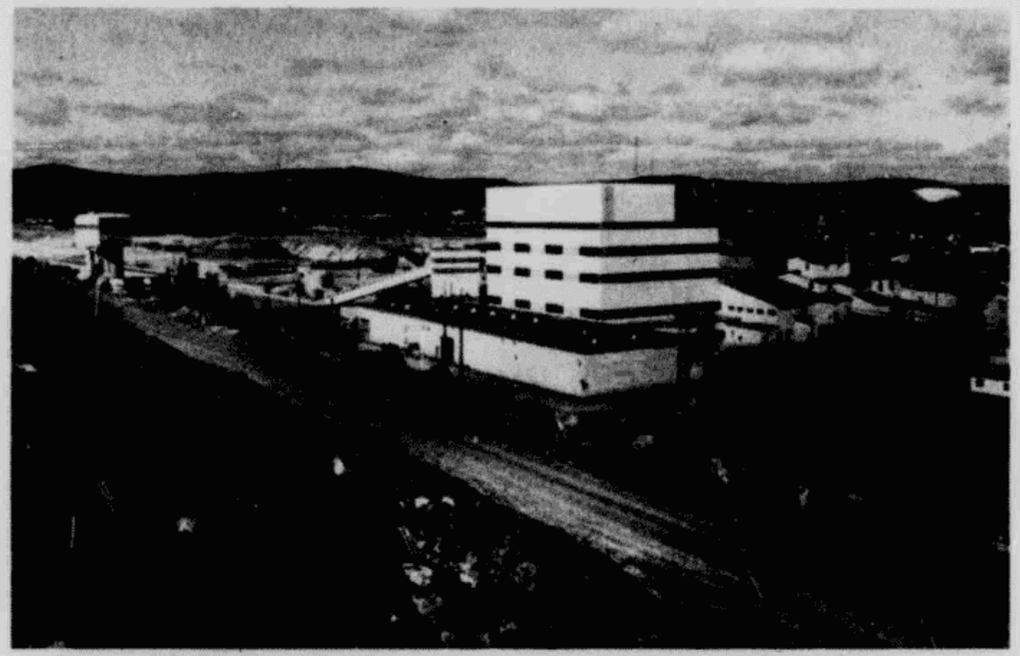
Per Ton of 2000 Lbs., F.O.B. Globe, Arizona
U.S. Dollars

No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 Nonferrous Filtering—Plastic	$ 750— 840
Group No. 4 Nonferrous Filtering—Plastic	750— 840
Group No. 7 White Shorts	100— 200

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THE ASBESTOS MINING SCENE

WOODSREEF QUARTERLY REPORT

Woodsreef Mines Ltd. reported that production at its asbestos mines at Barraba and Baryulgil, in New South Wales, Australia, for the quarter ending January 31, 1979, totaled 16,566 metric tonnes compared with 13,726 tonnes during the same period a year earlier. Fiber shipments reached 19,782 tonnes vs. 11,056 tonnes and revenue from invoiced sales was A$5,816,000 against $4,136,000. Net trading result was a loss of $1,612,000 for the latest period compared with a loss of $1,793,000 for the three months ended January 31, 1978. The effect of the value of the Canadian dollar continued to depress revenue despite record production levels. Asbestos prices in most areas of the world are set by Canadian producers in Canadian dollars and to be competitive, Woodsreef has had to match these prices, which results in a significantly lower return in Australian dollars. Woodsreef anticipates that its new tailings recovery circuit will become fully operational in July 1979 and should increase revenue some 10%-15%. Research and development work is continuing on a process for the wet milling of asbestos ores. A $150,000 grant covering 50% of the total cost of the work during the year ending June 30, 1979, has been approved by the Australian Industrial Research and Development Incentives Board. An intensive marketing campaign was carried out in an effort to increase asbestos sales in 1979. The results have been successful and firm sales for the calendar year total 82,564 tonnes as of February 27, 1979. Negotiations for additional sales are continuing and the company expects that total 1979 sales will be close to 90,000 tonnes, 41% higher than in 1978.

USSR MINE DEVELOPMENTS

According to Moscow radio reports, the V. I. Lenin Combine in the Tuva ASSR has begun asbestos production. The mine is expected to be one of the largest in the Soviet Union and should produce some 120,000 metric tonnes of asbestos fiber this year. In the past Tuva contributed about 10% of the USSR's total asbestos output. . . . The Kiembay Asbestos Mine is being developed as a collaborative venture by seven Comecon nations. It is to be commissioned within the next three months and at full operation will supply 250,000 tonnes per year to the partner countries. This is half of what was formerly projected as full annual capacity (see December 1978 ASBESTOS, pages 40 and 42). [Mining Journal]

AFRICAN PICK-UP PREDICTED

Mining circles in Johannesburg, Republic of South Africa, predict a pick-up in asbestos markets in the second half of this year. Asbestos production in 1977 was 379,524 metric tonnes, valued at R133-million. Output dropped in 1978 to 257,208 tonnes, reducing revenue to R107.5-million. Reportedly, South Africa exports over 90% of her asbestos production. [South African Digest]

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ANNUAL REPORTS—1978

RAYBESTOS-MANHATTAN, INC.

Raybestos-Manhattan, Inc., is a leader in the manufacture and marketing of friction materials, engineered textiles, packing and sealing products, rivets and rivet-setting machines. The year 1978 marked the 50th anniversary of the company, which was formed in 1929 by a merger of several firms. R/M or one of its predecessor companies has established a record of 332 consecutive quarterly dividend payments to shareholders beginning in 1895. A 12% compounded rate of sales growth and a 22% rate of profit growth have been recorded since 1970. *Sales* in 1978 were $285,182,000 compared with continuing sales of $251-million in 1977 (a 13.6% increase). *Net income* in 1978 reached $11,069,000 or $5.39 per share vs. $15-million or $4.54 in 1977.

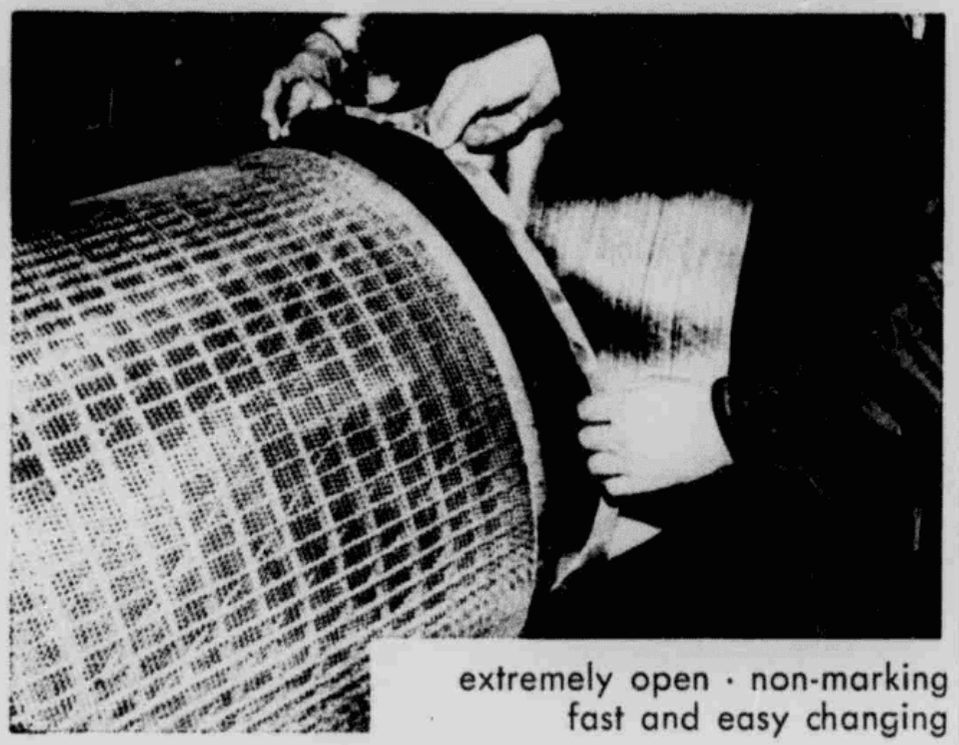
Substantial progress was achieved in 1978 in *major capital expenditure programs.* The four-year, $11-million restructuring and NOVATEX expansion program, a proprietary chemical extrusion process for forming asbestos yarns, was completed on schedule at plants in North Charleston, South Carolina, and Marshville, North Carolina. The $4.6-million program at the plant in Stratford, Connecticut, to begin the conversion to non-asbestos materials, to provide additional capacity for wet friction products and to enable new manufacturing technologies to be applied in their production is proceeding on schedule and will be completed early this year. The plant at Cork, Ireland, is now in full operation, producing disc brake pads for the U.S. aftermarket. The cold-formed products plant at Greenville, Mississippi, became operational during the first quarter of 1978 and is now producing a variety of standard and special rivets. The 33,000-square-foot office building under construction at a site adjacent to R/M's Corporate Headquarters at Trumbull, Connecticut, will provide a headquarter location for the Raybestos Friction Materials Company and will be completed in the first quarter of this year.

Raybestos Friction Materials Company manufactures and/or markets brake linings, disc brake pads, clutch facings, automatic transmission friction elements, brake blocks and hydraulic brake parts. Sales of $219.3-million represent a 14% increase over 1977. Net income before corporate expenses rose 26.4%. This company made continued advancements in its market position and further established itself as the nation's leading producer and distributor of friction materials, with 52% of its business in the aftermarket and 48% in original equipment, of which more than half is heavy-duty, industrial business. R/M plans to eliminate asbestos from its friction materials products by 1982 in order to minimize the effect of further government regulations. The company says this objective can only be achieved if users of the products assume the necessary development work and higher costs related to new formulations. *R/M International* has been assimilated into this group which now means the division company is responsible for manufacturing and marketing friction materials worldwide.

Raybestos Manhattan Industrial Products Company designs, manufactures and markets a broad line of temperature-resistant and corrosion-

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resistant products and materials for applications in transportation, aerospace, energy and other industrial markets. Sales in 1978 were $41.7-million compared with $37.9-million in 1977. Net income before corporate expenses increased 19.2% over 1977. Sales of nonmetallic expansion joints and gasketing materials increased significantly over the prior year, while sales of certain asbestos textile products softened during the second half of the year. R/M believes the NOVATEX process, which is the only one of its kind domestically and which operates well below OSHA standards, will ultimately be the most economical method of producing asbestos yarn. It also offers significant opportunities internationally. The conversion program from conventional to the NOVATEX processed yarns for most market applications, where there is no substitute for asbestos, is in its final stage of completion. The company plans to expand its market penetration of commodity products such as packings, seals, gaskets and insulating materials. In all its products, asbestos and non-asbestos materials will be used as determined by the performance requirements of the application and the environmental effects in the marketplace. NOVATEX yarns and other heat-resistant fibrous materials will be used for the textile business as well as in other products such as expansion joints, catalytic converter seals and packing materials. R/M estimates that by 1983 the texile product line will represent about 16% of total sales, compared to about 30% in 1978 and 46% in 1973.

The Milford Rivet & Machine Company makes and markets tubular rivets, cold-formed special products and rivet-setting machines. Its operating results improved in 1978 with sales increasing to $24,157,000 or 16.5% over 1977 and net income before corporate expenses rising 7.1%.

ASARCO INCORPORATED

Asarco Inc. is one of the world's leading producers of nonferrous metals and nonmetallic minerals. It is also a major custom smelter and refiner of nonferrous metal ores mined by others. In addition, Asarco recycles scrap metal, produces specialty chemicals, supplies solar energy systems and makes asbestos-cement pipe. It has substantial investments in other mining and metals companies. *Sales* reached $1,174,911,000 in 1978 vs. $1.046-billion in 1977. *Net earnings* were $49,474,000, or $1.69 per share, compared with a net loss in the prior year of $29.6-million, or $1.10 per share. *Capital expenditures* totaled $79,412,000 in 1978 against $96-million in 1977 and are projected at about $75-million in 1979.

The President of the United States and his chief inflation and economic advisors have emphasized control of inflation, improved productivity, energy conservation and the need for regulatory reforms. However, the outpouring of *costly regulations issued in the name of health, safety and environment* continues out of control. The excessive detail and unnecessary stringency of regulations have become a serious national problem. The suggestion that costs of complying with these regulations constitute a small percentage of the Gross National Product and are only moderately inflationary is misleading. Even if one accepts the modest cost estimate, it

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is a fact that the expense falls disproportionately on basic industry. Asarco believes that corrections will, in time, be made. In the meantime, the company states that its stockholders can take satisfaction in the firm's stake in the production of nonferrous metals outside the United States.

Lake Asbestos of Quebec Ltd., Asarco's wholly-owned subsidiary, changed its name last October to *Lac d'Amiante du Quebec Ltee* in recognition of the location of its production facilities in the French-speaking Province of Quebec, Canada. Due to a strengthening of demand for asbestos fiber, LAQ's sales and production both set record highs in 1978. LAQ's continuing program to limit the escape of asbestos fibers into the air at its mines and mills and in the surrounding environment cost over $1-million in 1978 and could require an additional $4-million over the next 4-5 years. The operations comply with the current environmental health standards established by the Quebec government. For 1979, asbestos producers face regulatory uncertainties in a number of industrialized countries which could affect the market for asbestos fiber and asbestos-containing products. However, demand from developing nations for asbestos-cement sheet, a cost-effective building material, remains strong. Asarco/LAQ asbestos production reached approximately 280,000 tons in 1978 compared with some 255,000 tons in 1977 and 245,000 tons in 1976. Total revenue from Asarco's asbestos business reached $100,662,000 in 1978 compared with $97-million in 1977. Earnings before taxes on income were $13,272,000 in 1978 vs. $18.6-million the prior year.

ASBESTOS STOCK QUOTATIONS

Close—March 20, 1979

Abitibi Asbestos	C$.89
Advocate Mines	C$2.80
Armstrong Cork	16⅛
Armst. Cork (pfd 3.75)	43½
Asarco	19¼
Asbestos Corporation	C$43.00
Bendix	38⅝
Carlisle	34
Cassiar Asbestos	C$11.25
CertainTeed	16½
Charter Conso.	pence 167
Colt Industries	38⅞
Colt Ind. (pfd 1.60)	30½
Colt Ind. (pfd 4.25)	83
Conwest	C$6.375
Flintkote	32¼
F-kote (pfd-B 2.25)	44
GAF Corporation	12
GAF (pfd 1.20)	16⅜
Gulf & Western	15
G&W (pfd 2.50)	33
G&W (pfd 3.87)	72¼
IC Industries	25⅛
IC Ind (pfd 3.50)	41⅞
Jim Walter Corporation	29
Jim Walter (pfd 1.60)	30¼
Johns Manville	24⅜
J-M (pfd 5.40)	61⅜
Kennecott Copper	23⅛
Lear Siegler	18¼
Lear Siegler (pfd 2.25)	44¾
Maremont	23½
McAdam Mining	C$.35
National Gypsum	16½
Pathfinder	C$.27
Porter (pfd 5.50)	73½
Raybestos-Manhattan	33¾
Rio Algom	C$38.125
Supradur	Bid 4¾; Asked 5½
Union Carbide	38¼
United Asbestos	C$2.85
Woodsreef Minerals	C$.39

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MEN ON THE MOVE

ASBESTOS CORPORATION LTD.

W. B. R. Callan was appointed Vice President-Operations, Head Office. He joined Asbestos Corporation Ltd. in 1957 and most recently had been General Manager-Thetford Operations. . . . *Barney Kovacs*, formerly Production Manager at the facilities at Thetford, has succeeded Mr. Callan as General Manager-Thetford Operations. . . . *Jean Gaudry* is now General Manager of Sales and Marketing, effective April 1, 1979. Since 1977 he had been Director of Sales for Region 1 (North, South and Central America) and Director of Marketing. . . . Mr. Gaudry replaces *Andrew S. Johnson* who left Asbestos Corporation after 24 years of dedicated service with ACL and the former Johnson companies.

CASSIAR ASBESTOS CORPORATION LTD.

John W. Oughtred was named Manager-Marketing for Cassiar Asbestos Corporation Ltd., as of February 1, 1979. Formerly Manager-Sales, Mr. Oughtred succeeds *John J. Ellis* who is now General Manager of Operations for Zapata Granby Mining Corporation.

CERTAINTEED CORPORATION

Gabriel Aufaure has been elected President and Chief Executive Officer of CertainTeed Corporation. He will continue as a Director of the company, a position he has held since 1972. Mr. Aufaure is also Vice President of Saint-Gobain-Pont-a-Mousson. . . . *Franklin R. Winnert*, Executive Vice President for CertainTeed, was designated as the building material producer's Chief Operating Officer. He joined the company in 1970 and has been responsible for CertainTeed's operating groups since June 1978. . . . *John T. Gurash*, Chairman of CertainTeed, commented that "these actions by the Board are designed to fill the void left by the sudden death of *Marcel Levecque*, our former President and Chief Executive Officer. . . ."

ONTARIO RESEARCH FOUNDATION

W. R. Stadelman, President, recently announced three senior management appointments at Ontario Research Foundation. *Dr. R. A. Kuntze* was promoted to the newly-created post of Vice President for Operations. Replacing him as Director of Materials Chemistry is former Assistant Director, *E. C. Brown*. Simultaneously, the Glass and Ceramics Laboratory was detached from Materials Chemistry and is now a department of its own under the directorship of *Dr. M. K. Murthy*.

TURNER & NEWALL LTD.

K. H. Dixon has been appointed to the new post of Corporate General Manager-Mining for Turner & Newall Ltd., effective April 1, 1979. *J. B. Heron* succeeds him as Deputy Chairman and Chief Executive of TBA Industrial Products Ltd., a T&N subsidiary. . . . *T. R. Earnshaw*, a Non-Executive Director of TBA, retired February 28, 1979. He remains Export United Adviser to the British Overseas Trade Board and a Member of its Advisory Council.

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BIRTHDAY GREETINGS to . . .

John D. Zacharias, President, Atlas Turner Inc., Montreal, Quebec, May 15.
W. Vermeer, Jr., Managing Director, Vermeer Agenturen B.V., Haarlem, Holland, May 16.
J. R. M. Hutcheson, Chairman of the Board, Johns-Manville Canada Inc., Asbestos, Quebec, May 17.
Alfred E. Netter, Assistant Secretary, Supradur Manufacturing Corporation, New York City, May 17.
W. J. Clough, a Director and General Manager, Sealing Materials Division, TBA Industrial Products Ltd., Rochdale, England, May 18.
L. F. Gauvreau, President, McAdam Mining Corporation Ltd., Toronto, Ontario, May 18.
Kurt Schwarz, Senior Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.
M. L. Trepanier, Manager of Engineering, Asbestos Corporation Ltd., Thetford Mines, Quebec, May 19.
Arbrey P. Carrigan, Purchasing Agent, Southern Textile Corporation, Charlotte, North Carolina, May 20.
R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.
S. E. Cohen, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, May 21.
William T. Colborn, Vice President, Pacor Inc., Philadelphia, Pennsylvania, May 21.
Maxine G. Fairchild, Sales Service Representative, Southern Textile Corporation, Charlotte, North Carolina, May 21.
Ray A. Plauche, Plant Manager, Asbestos-Cement Plant, National Gypsum Company, New Orleans, Louisiana, May 21.
H. M. S. Tanner, Managing Director, Cape Asbestos Fibres Ltd., Uxbridge, Middlesex, England, May 21.
Reginald Sykes, Secretary, Asbestosis Research Council, Rochdale, Lancashire, England, May 23.
Anthony T. Kana, Vice President-Finance & Administration & Secretary, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, May 24.
J. M. Atkinson, Deputy Chairman, Havelock Asbestos Mines (Swaziland) Ltd., Manchester, England, May 25.
Edward A. Morris, Sales Manager-Southern District, Amatex Corporation, Columbia, South Carolina, May 25.
J. L. Geddes, Managing Director, Cape Insulation Ltd., Stirling, Scotland, May 27.
A. J. McMullen, Chairman of the Executive Committee, Garlock Inc., Rochester, New York, May 27.
Olaf Mohn, Export Sales Representative, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, May 29.
Lionel C. Piuze, Vice President-Operations and a Director, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, May 30.
Leo J. Bartolanzo, Vice President-Controller, Johns-Manville Corporation, Denver, Colorado, June 3.
Harold F. X. Plate, Marketing Manager, Lac d'Amiante du Quebec Ltee, New York City, June 3.
J. G. Richardson, a Director, Cape Industries Ltd., London, England, June 5.

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A. H. Wailes, Marketing Director, Pipes Division, TAC Construction Materials Ltd., Manchester, England, June 5.

R. V. Stohr, Manager, Kliprivier Factory, Everite Ltd., Kliprivier, Transvaal, Republic of South Africa, June 6.

D. R. Budinski, Chief Geologist, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, June 9.

William Krucke, Director of Environmental Programs, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, June 9.

Alexander Kuzmuk, Vice President & General Manager-Construction Products, Garlock Inc., Palmyra, New York, June 11.

Ernest C. Bratt, President, Southern Textile Corporation, Charlotte, North Carolina, June 12.

B. C. Winch, Managing Director, Cape Distribution Ltd., Biggleswade, England, June 12.

A. H. Bagenstose, Vice President-Sales & a Director, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, June 14.

A. C. Caron, Assistant Manager of Engineering, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, June 14.

John J. Finnegan, President, Ambler Division, a Corporate Vice President & a Director, Nicolet, Inc., Ambler, Pennsylvania, June 14.

G. R. Smith, Special Duties, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 14.

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VALUABLE LITERATURE

ORDERS FOR THE FOLLOWING (WITH ONE EXCEPTION, AS NOTED) MAY BE PLACED THROUGH ASBESTOS MAGAZINE. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY APRIL 1979 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

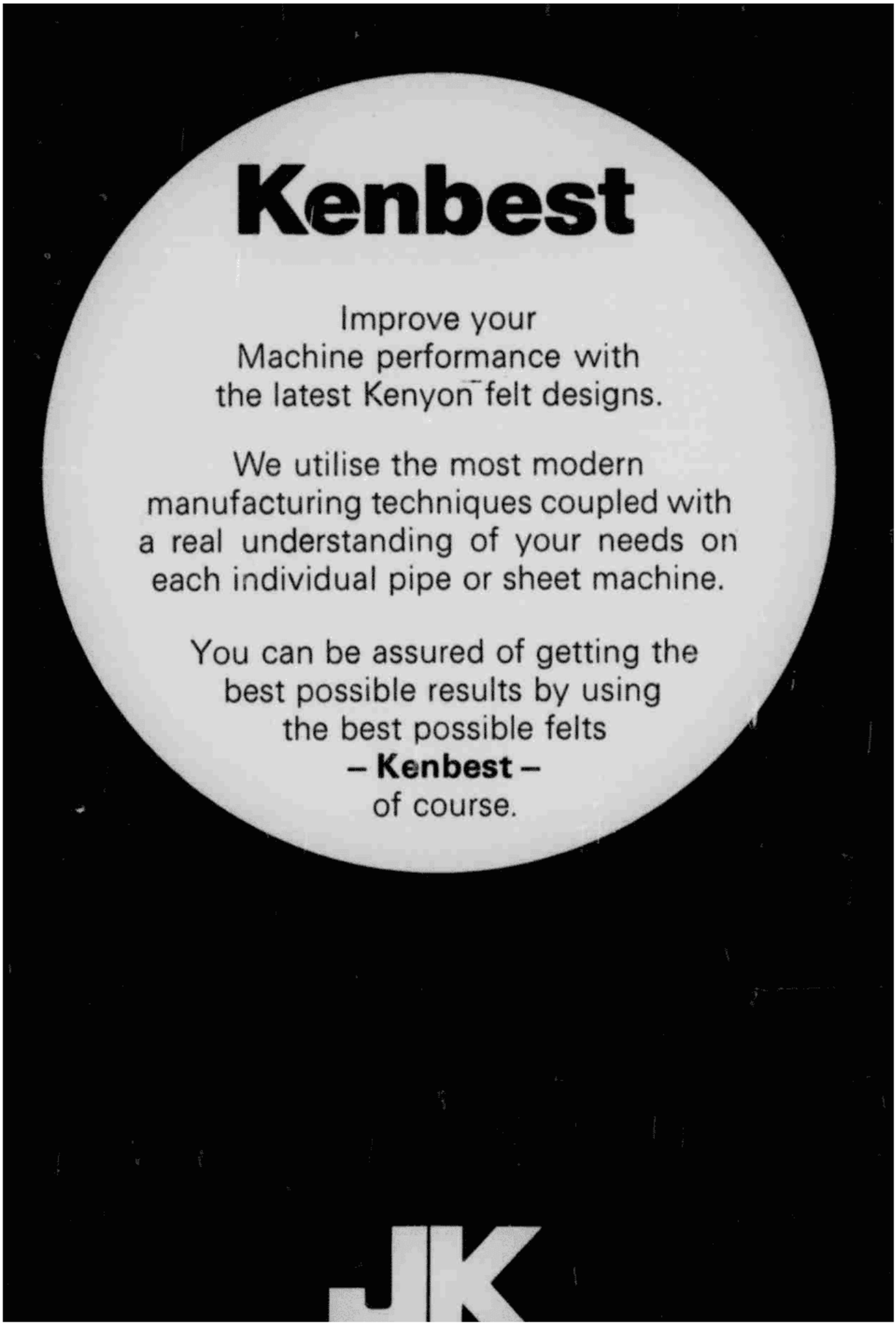
MANUAL FOR THE PREPARATION OF INDUSTRIAL FEASIBILIITY STUDIES—Guide to developing countries in the selection of sound investment projects to ensure the best use of human and capital resources; outlines proper framework of a feasibility study and deals with different types of pre-investment studies which can be applied to any industrial sector; indicates the information required at different stages of decision-making in selecting a project; discusses techniques for forecasting demand, market surveys and financial statements required by industrial development banks. [United Nations Industrial Development Organization; $9.00 per copy; order from the UN Sales Section at New York City or Geneva, Switzerland, or from UN sales agents and major booksellers around the world; specify Sales #E.78.11.B.5]

MODERN POLLUTION CONTROL TECHNOLOGY—Edited by the Staff of Research and Education Association; organized into three major parts, i.e., air pollution control, water pollution control and solid wastes disposal; includes thorough reviews of latest available data on pollution control techniques and equipment for industries, states and municipalities; discusses principles, equipment design and construction and profit potentials; all topics include physical descriptions and are developed so that previous familiarity with the particular subject matter is not required; useful in providing background needed to prepare bidding proposals for government contracts. [Research and Education Association; $39.75 per copy plus postage and handling of $1.95 to the United States and $2.65 to all other countries]

SOLID/LIQUID SEPARATION EQUIPMENT SCALE-UP—Edited by D. B. Purchas; contains contributions from filtration specialists around the world; is an authoritative and detailed guide for those who use, design, manufacture and supply filtration/separation equipment; chapters cover particle size analysis, optimizing the use of pretreatment chemicals, gravity separation equipment, coagulation clarification; flotation, sedimenting centrifuges, hydrocyclones and filtering centrifuges; contains proposals for unifying cake filtration tests and sections concerned with deep bed, cartridge, batch and continuous filters. [Uplands Press Ltd.; $60.00 per copy including surface mail postage; additional airmail postage is $10.00 to the United States and Europe and $14.00 to all other countries]

FIBER CEMENTS AND FIBER CONCRETE—By D. J. Hannant; there is an increasing tendency towards specialization in many branches of science and engineering but in the field of fiber cement and fiber concrete, a variety of disciplines have combined in an attempt to produce pseudoductile materials from fibers embedded in relatively brittle cement-based matrices; in this book the author helps bridge the gap between the research worker and those who wish to put the materials to practical use; offers a comprehensive text covering properties, production and applications; in-

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cludes chapters on asbestos cement and on applications of steel, polypropylene, glass and asbestos fibers. [John Wiley & Sons, Inc.; $28.50 per copy plus $2.30 for postage and handling]

MINING INTERNATIONAL YEAR BOOK 1979—Foremost reference work by Walter Skinner which provides access to reliable business data and operating statistics on major mining and associated companies in over 80 countries; each firm is listed alphabetically and a valuable cross-reference index lists all the principal, subsidiary and associated companies; also included is a geographical index and a suppliers directory and buyers guide (the latter a source of major suppliers of mining equipment, products and services); the new metals/minerals index determines which companies are concerned with any of the 29 metals and minerals on the select list (including asbestos). [The Financial Times Ltd.; $60.00 per copy]

OCCUPATIONAL HEALTH AND SAFETY REGULATIONS—Proceedings of the First Annual Occupational Health and Safety Regulation Seminar held April 1978 by Government Institutes, Inc.; edited by M. L. Miller; provides comprehensive data on the impact of new government policies together with analyses for a practical viewpoint of current developments and their consequences to the business community; especially pertinent is the examination of the Barlow case (re: warrantless OSHA inspections) and its implications to employers. [Government Institutes, Inc.; $18.00 per copy]

PRODUCT LIABILITY SITUATION REPORT—Summarizes legislative activity during 1977 and 1978 at the state and federal levels; shows that the percentage of product liability bills enacted in the states in 1978 is about equal to the increase in product liability insurance rates; covers the tax provisions recently approved by the 95th Congress to allow companies to spread liability losses over a great number of profitable years and to receive tax refunds for some of those years. [Federal-State Reports, Inc.; $5.00 per copy]

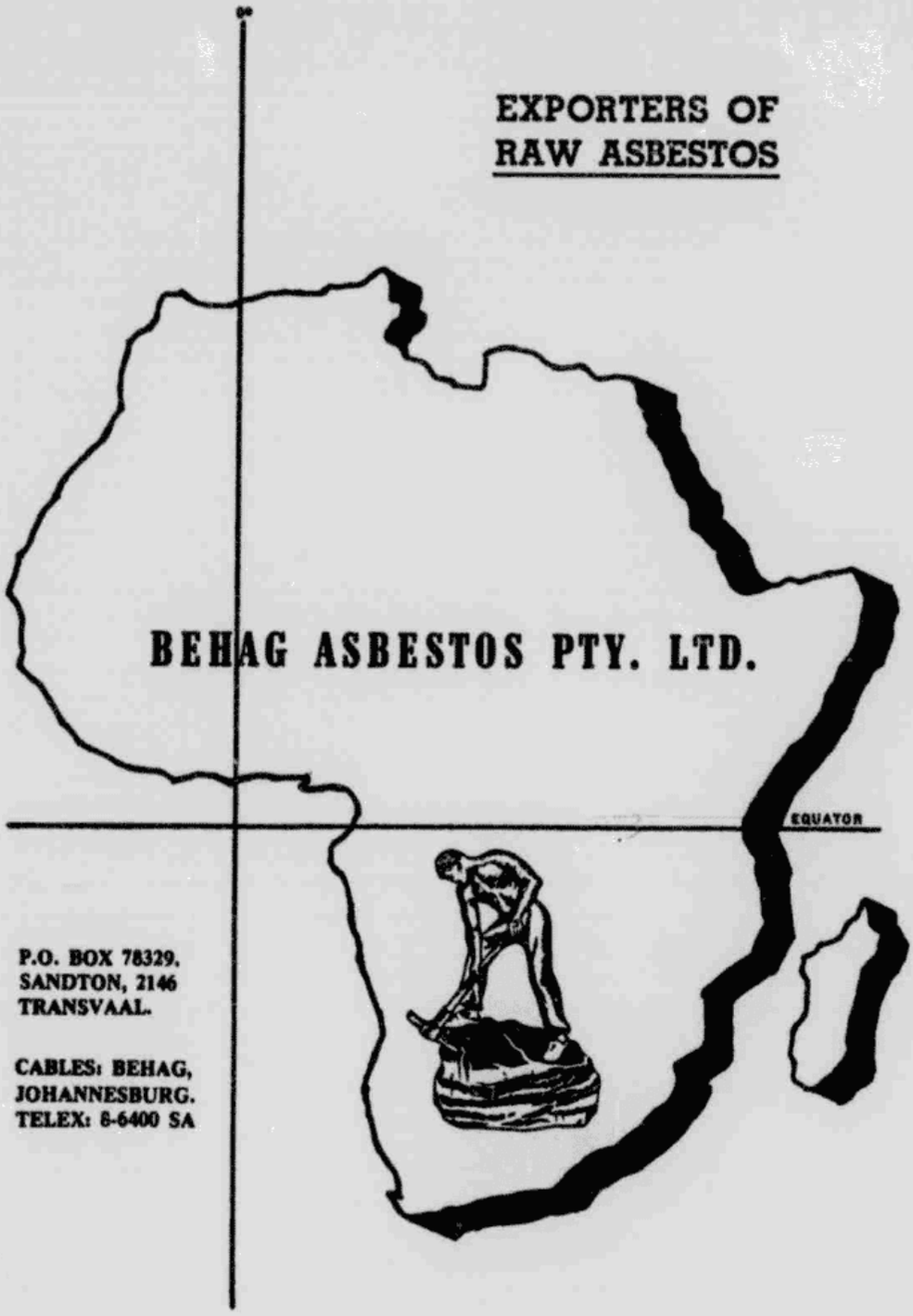
POLLUTANTS AND HIGH-RISK GROUPS—By E. J. Calabrese; a state-of-the-art synthesis of the biomedical literature in which numerous hypersusceptible segments of the population (with respect to pollutant toxicity) have been identified and quantified; includes data on lung cancer as influenced by asbestos exposure and smoking behavior. [John Wiley & Sons, Inc.; $20.95 per copy plus $2.00 shipping and handling]

ENVIRONMENTAL IMPACT OF MINING IN CANADA—Report of study by the Centre for Resource Studies, Queen's University, Kingston, Ontario; authored by E. A. Ripley, R. E. Redmann and J. Maxwell; a major recommendation of the authors is that environmental protection studies should include a careful evaluation of the tradeoffs between the benefits to society of protection of the environment and the economic costs to society of such protection; contains a chapter on asbestos. [Centre for Resource Studies; $6.00 per copy]

HAZARDOUS AND TOXIC EFFECTS OF INDUSTRIAL CHEMICALS 1979—Handbook by M. Sittig; consists of some 250 individual monographs arranged alphabetically by the common name of each substance, including asbestos. (Noyes Data Corporation; $42.00 per copy]

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NEW ASBESTOS PATENTS

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U.S. 4,126,541—In the refining of a colloidal asbestos dispersion, the dispersion is fed through a horizontal cylindrical tube having a plurality of holes around its periphery, a helical screw and a flanged jacket spaced outwardly from the tube, whereby refined slurry exits the holes and contaminants are moved by the screw to the outlet end of the tube; J. F. Orzechowski; assigned to Raybestos-Manhattan, Inc., November 21, 1978; 4 pages.

U.S. 4,127,628—Structural shapes of light weight but relatively high strength are fabricated from an aqueous slurry of gypsum plaster, up to about 5% by weight of the slurry of glass fibers, and up to 9% of asbestos fibers; a molding technique is described for forming shapes with a low-density middle section faced on both sides by higher-density layers which impart needed strength; M. Uchida, T. Fushiki & M. Awata; assigned to Mitsubishi Chemical Industries Ltd., November 28, 1978; 9 pages.

U.S. 4,129,453—A smooth, non-lumping composition for use as a coating, road paving mixture or the like consists of a mixture of 86%-88% by weight of molten sulfur, about 2% of dicyclopentadiene as a plasticizer, 8%-9.6% of talc as an asbestos dispersing agent and 2%-4% of a mixture of about equal proportions of Chrysotile asbestos and Tremolitic amphibole asbestos; M. Simic; assigned to Chevron Research Company, December 12, 1978; 3 pages.

U.S. 4,131,661—In the recovery of asbestos fibers from surfactant-containing waste formed in the production of asbestos products, the waste is treated with hydrochloric acid to solubilize ions of calcium, magnesium, aluminum and zinc, those ions removed by washing, and the surfactant treated with sodium hydroxide, and the asbestos/surfactant mixture reprocessed; E. K. Spitz & L. E. Cox; assigned to Raybestos-Manhattan, Inc., December 26, 1978; 3 pages.

U.S. 4,131,710—A recording sheet capable of displaying a colored image is fabricated from a mixture of 3%-30% by weight of the total fibrous material of asbestos and the remainder organic fiber pulp, the sheet being surface-coated with gamma alumina; the asbestos improves the contrast between the colored image and the original color of the acceptor sheet; G. Dessauer, K. Ramlow, K. Riecke & F. Wirnitzer; assigned to Feldmuhle A.G., December 26, 1978; 5 pages.

—WELCOME TO NEW ADVERTISERS—

CERTAINTEED MACHINERY DIVISION, Maize, Kansas; page 11
HEAREX/KEMPER CORPORATION, Tampa, Florida; page 13
MILL & INDUSTRIAL SERVICES, Randburg, South Africa; page 60
STEDMAN FOUNDRY & MACHINE, Aurora, Indiana; page 2

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CALENDAR OF EVENTS

NATIONAL ASSOCIATION OF CORROSION ENGINEERS—Continuing corrosion education seminars titled NACE Basic Corrosion Course, Corrosion Prevention by Cathodic Protection and Corrosion Protection by Coatings: *April 29-May 4* in New York City; *May 13-18* in San Francisco, California; *May 20-25* in Dallas, Texas.

AMERICAN OCCUPATIONAL HEALTH CONFERENCE—Combined annual meetings of the American Occupational Medical Association and the American Association of Occupational Health Nurses; Anaheim, California; *April 30-May 4.*

PRACTISING LAW INSTITUTE—Coming courses: Strikes, Stoppages and Boycotts, *May 3-4* in New York City; Protecting the Corporate Officer and Director from Liability, *May 3-4* in New York City; 20th Annual Antitrust Law Institute, *May 10-11* in New York City; *July 26-27* in Los Angeles, California, *September 13-14* in Chicago, Illinois.

NEW YORK LAW JOURNAL—Coming seminars: Medical Expert Witnesses, *May 3-4* in New York City and *May 10-11* in San Francisco, California; Planning for Patent-Antitrust Litigation, *May 7-8* in New York City and *June 14-15* in San Francisco; Negotiating Corporate Acquisitions, *May 10-11* in New York City and *June 18-19* in Los Angeles, California.

ANALYTICAL CHEMISTRY OF POLLUTANTS—Ninth Annual Symposium sponsored by the University of Georgia, the American Chemical Society and the U.S. Environmental Protection Agency; Jekyll Island, Georgia, *May 7-9.*

NATIONAL PLANT ENGINEERING AND MAINTENANCE SHOW/DESIGN ENGINEERING SHOW—Produced by Clapp & Poliak, Inc.; McCormick Place, Chicago, Illinois, *May 7-10.*

CUTANEOUS TOXICITY—Fourth Conference sponsored by the American Medical Association; Mayflower Hotel, Washington, D. C., *May 9-11.*

RE-NEGOTIATING YOUR LABOR CONTRACTS—A practical course of AMR International, Inc.; *May 10-11* in King of Prussia, Pennsylvania, and *June 5-6* in San Francisco, California.

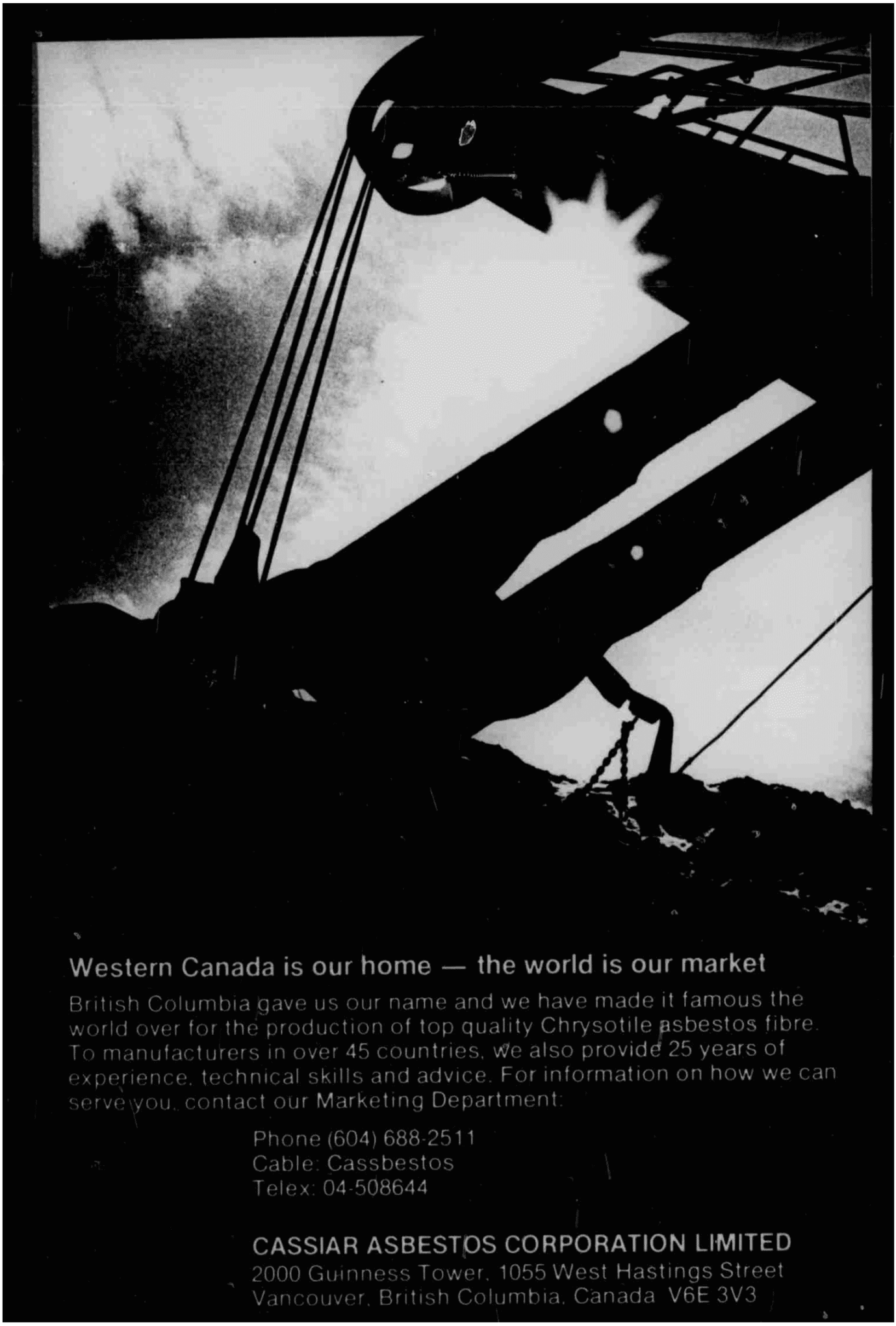
MINE LIGHTING SEMINAR—Course sponsored by the Mackay School of Mines; University of Nevada-Reno, Reno, Nevada, *May 14-16.*

GRADIENT INDEX OPTICAL IMAGING SYSTEMS—Topical meeting of the Optical Society of America and the American Ceramic Society; University of Rochester, Rochester, New York, *May 15-16.*

HEARING CONSERVATION NOISE CONTROL, INC.—Coming courses: Training Course for Audiometric Technicians in Industry, Philadelphia, Pennsylvania, *May 16-17;* 16th Industrial Hearing Conservation Institute, Orono, Maine, *July 16-18;* Occupational Hearing Loss Institute, Orono, Maine, *July 16-19;* 2nd Noise Measurement and Control Course, Orono, Maine, *July 16-20.*

MINERALOGICAL TECHNIQUES OF ASBESTOS DETERMINATION—A short course of the Mineralogical Association of Canada; Laval University, Quebec City, *May 20-22.* This immediately precedes the Joint Annual

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Meeting of MAC and the Geological Association of Canada to be held at Laval University, *May 23-25.*

MINE DRAINAGE—First International Symposium sponsored by World Mining and World Coal; Stouffer's Denver Inn, Denver, Colorado, *May 20-23.*

THERMAL ANALYSIS—Conference to advance the state-of-the-art of thermal analysis; sponsored by the U.S. National Bureau of Standards and the University of Akron; NBS Headquarters, Gaithersburg, Maryland, *May 21-22.*

COLLOIDS & SURFACES—A course of the Carnegie Institute of Technology and the Mellon Institute of Science; Carnegie-Mellon University, Pittsburgh, Pennsylvania, *May 21-25* and *September 24-28.*

INDUSTRIAL HYGIENE—1979 Conference sponsored jointly by the American Industrial Hygiene Association and the American Conference of Governmental Industrial Hygienists; Palmer House Hotel, Chicago, Illinois, *May 27-June 1.*

13TH INTERNATIONAL MINERAL PROCESSING CONGRESS—Organized under the auspices of the Ministry of Metallurgy; Warsaw, Poland, *June 4-9.*

4TH INTERNATIONAL CONFERENCE ON ASBESTOS—Will cover economic geology, geology and mineralogy, chemistry and physics, mining, recovery and refining, industrial uses, quality control and environmental aspects; will include a medical round table workshop on the health aspects of asbestos; Turin, Italy, *May 26-30.*

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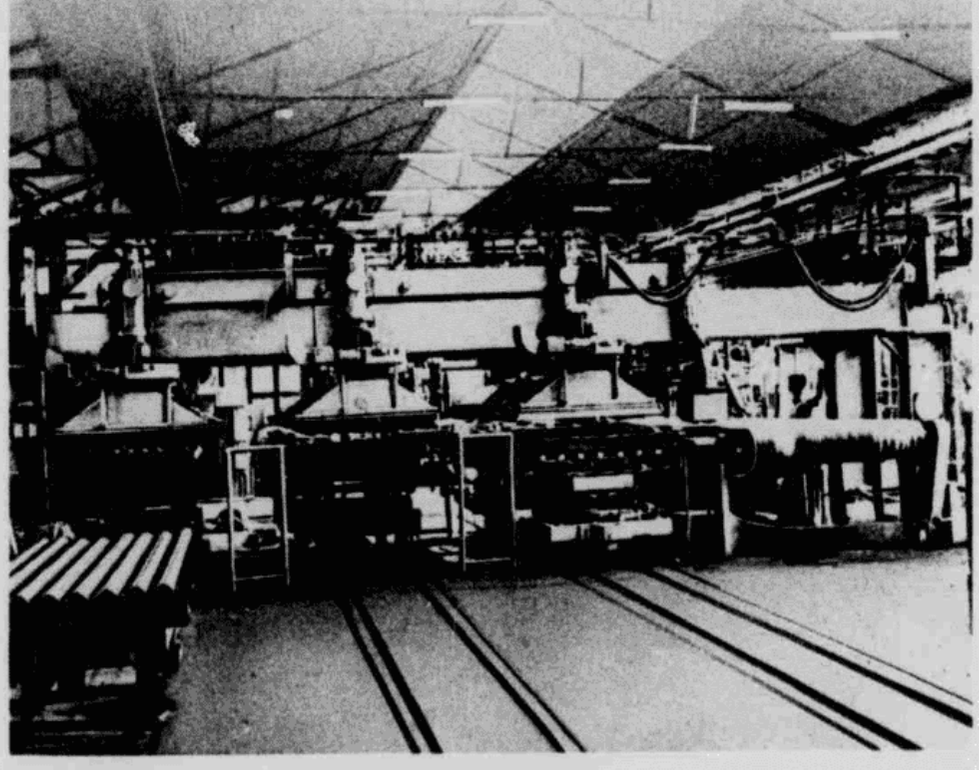
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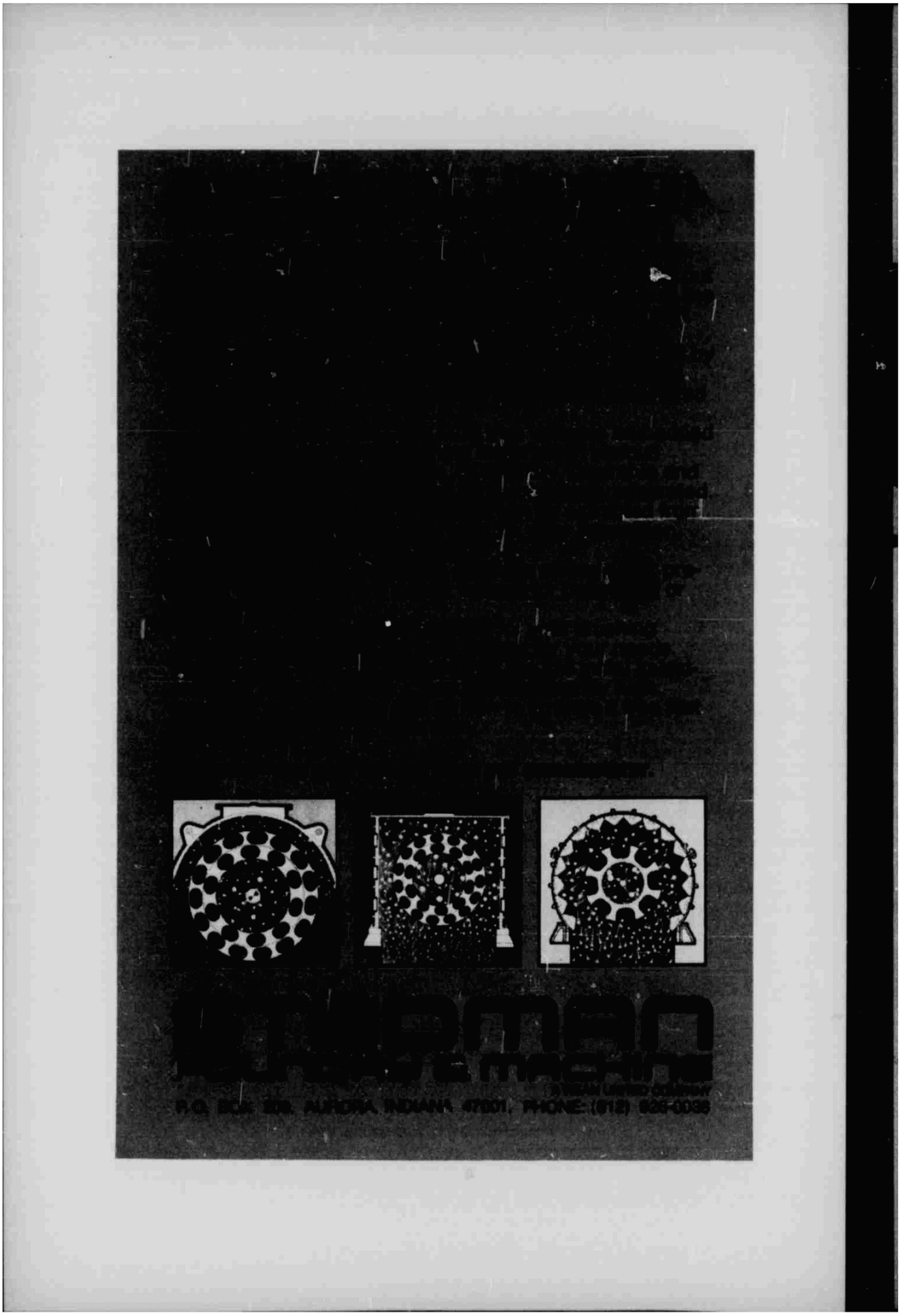
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