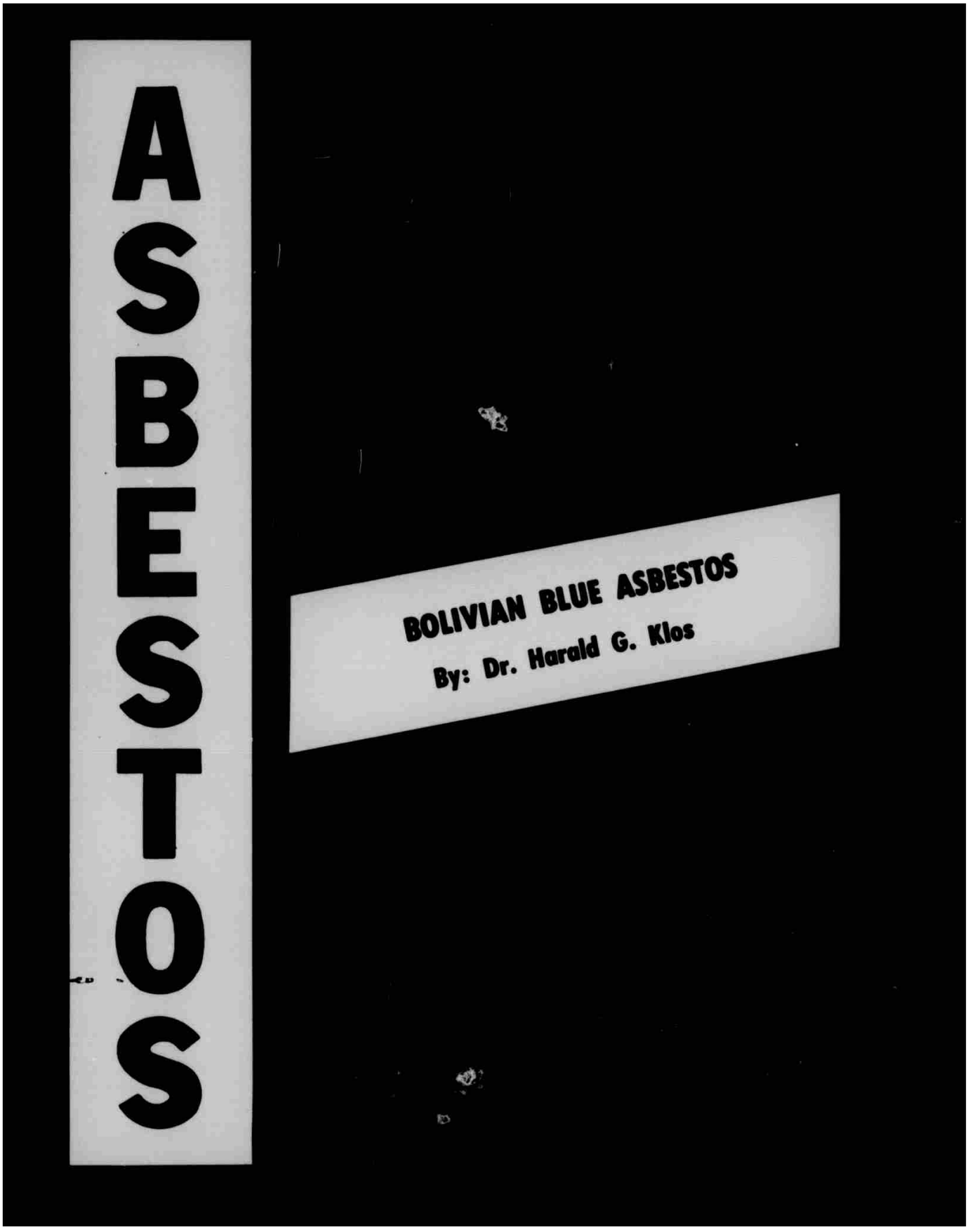

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BOLIVIAN BLUE ASBESTOS
By: Dr. Harald G. Klos

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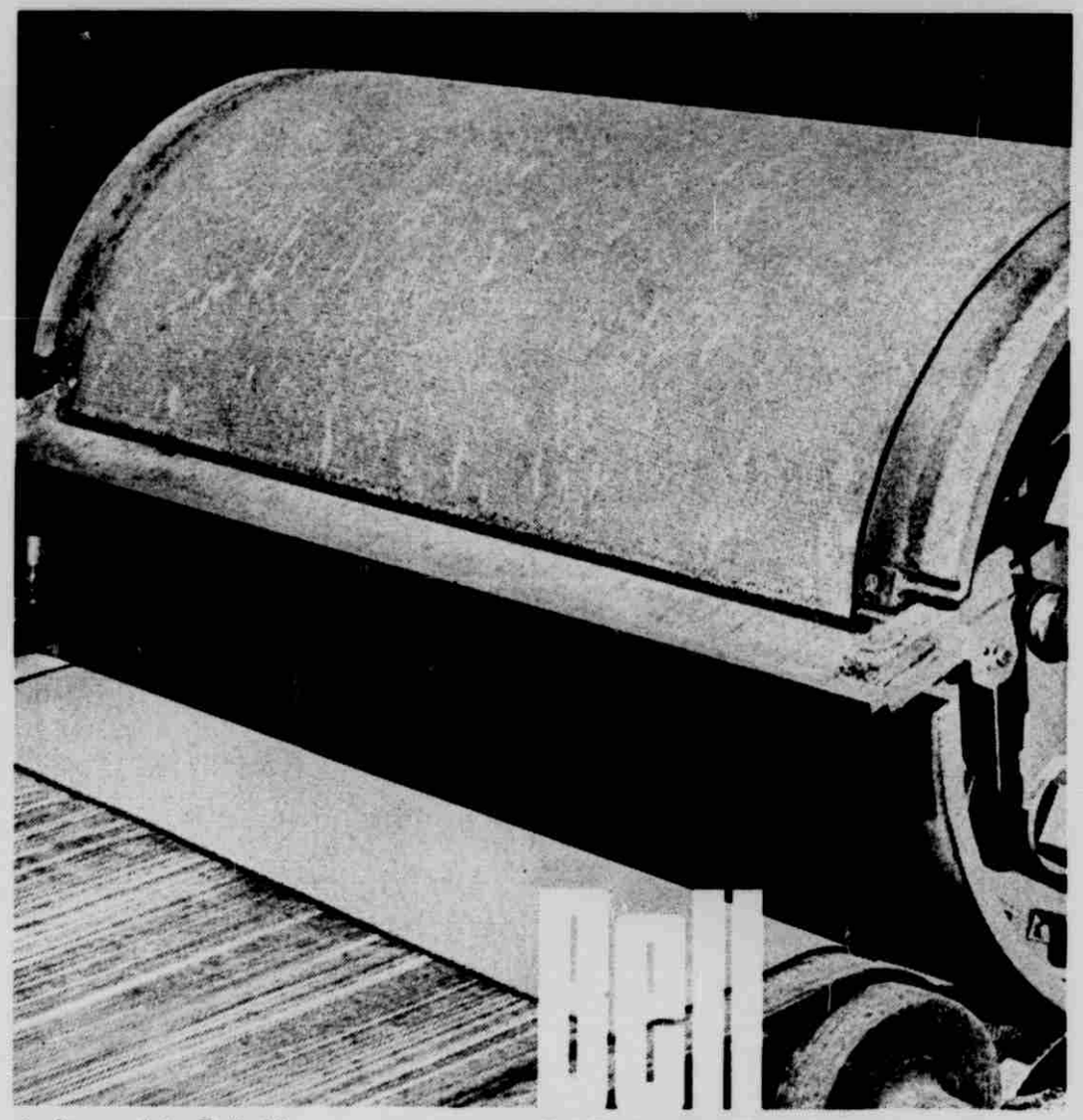
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ASBESTOS

VOLUME 57 FEBRUARY 1976 NUMBER 8

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BOLIVIAN BLUE ASBESTOS

By: Dr. Harald G. Klos, General Manager, Bolivian Minag Ltda.

The existence of asbestos in a 100-square-kilometer area in Chapare Province, Department of Cochabamba, Bolivia, has been known for over fifty years although no significant development work had been done until recently. One of the reasons for the lack of activity was that mining technologies had to be found to combat the high cost of development and production.

Because its color ranges from light to dark blue, Bolivian Blue asbestos had, in the past, been incorrectly identified as similar to the Crocidolite (Blue) variety produced in the Republic of South Africa. It is, in fact, different from all other commercial types of asbestos. It is found mostly as a soft, fibrous variety with fibers of various lengths — often 8" long. A rare find showed a length of 3 feet. The density of Bolivian Blue appears to be lower than that of other commercial types. For instance, the fibers are easily disintegrated by soft agitation in water and are able to withstand violent treatment. When used in asbestos-cement materials, laboratory tests indicated a tensile strength approximating that of comparable Canadian grades. Fiber content is reported as falling mostly in the Quebec A-C Grades 3Z, 4D, 4M and 4R, with small percentages of Grade 5R and of long, spinning Group 1 fiber.

Unprocessed, crude asbestos has been used for more than 30 years in Cochabamba in the manufacture of corrugated roofing products. Because Bolivian Blue is easily defiberized in water, it is economical to produce molded and compressed tiles. With the use of special mining and processing techniques, and adapting the preparation stage at the plant to the unique properties of Bolivian Blue, the mineral is suitable for use in a-c pipes and flat and corrugated sheets. Other major uses are in thermal, acoustical and chemical insulation materials.

A semi-mechanized project was begun in Cochabamba in 1975 toward obtaining a concentrate of 90% to 98% asbestos by manual selection. Ultimately the Asociacion of Producers of Asbestos was formed to promote the production of asbestos, to be of mutual assistance to local miners, to establish standards and classifications, and to guarantee quantities, quality and delivery to national foreign customers. It is assumed the major market will be the "Andean Pact" countries. Production projections are 2,000 tons in 1976 and 10,000 tons by 1978.

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THRU THE ENVIRONMENTAL MAZE

INTERNATIONAL ASBESTOS INFORMATION CONFERENCE FORMS STANDING COMMITTEE

For some years, associations representing asbestos manufacturers and producers in different countries have been actively seeking improved methods of safe working with asbestos. There has been a helpful exchange of information and a great deal of constructive collaboration, and international conferences to encourage this work have been organized at regular intervals.

In the light of continuing and increasing concern, however, and much misunderstanding and misinformation, it is now felt that a more continuing and systematic collaboration should be organized.

Accordingly, the leading national associations in this field have agreed to form an international organization which will meet in Conference every two years and whose interests will be served in the meantime by a Standing Committee. The objects of the organization are to encourage and facilitate the endeavors of members to eliminate risks to health, occupational and environmental, arising from the use of asbestos.

The Standing Committee is to provide a prompt and adequate information service to its member organizations for matters pertaining to the objects of the organizations and will explore opportunities for collaboration in the investigation and development of effective means of control of the working environment.

Already the membership includes representative associations from Belgium, Canada, Denmark, Finland, France, the Federal Republic of Germany, Holland, Italy, Norway, the Republic of South Africa, Sweden, the United Kingdom and the United States of America—and organizations in Australia, Japan and Spain have expressed interest.

The Standing Committee welcomes enquiries concerning the organization.

Who's Who On The IAIC Standing Committee

Alex Cross (*Chairman*) has been active in the asbestos industry since 1947. For the last seven years he has been Environmental Consultant to the Cape Group of Companies, having formerly been engaged in production management of textiles, insulation, board products and friction materials, and as Managing Director of a brake lining company. . . . *William Johnsen* (*Deputy Chairman*) is Chairman of the Danish Asbestos Information Group and Coordinator of the Scandinavian Group. He

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has been working for the Danish asbestos-cement industry for nearly 40 years, the last 15 years as one of the Managers of Dansk Eternit-Fabrik A/S in charge of production and environmental matters. . . . *Robert Join* has been Delegue General of the Chambre Syndicale de l'Amiante of France for over 15 years. He has been active in the promotion of modern methods of dust monitoring and dust control in France and was one of those responsible for the organization of the first International Conference on Asbestosis, held at Caen in 1964. . . . *Dr. Klaus Robock* has for 15 years worked on hazards associated with particulate matter and has published a number of authoritative papers on the subject. In April 1974 he became Director of the Occupational and Environmental Safety Unit, established in Neuss, Germany by the Wirtschaftsverband Asbestzement. . . . *Dr. Jacques Lepoutre, M.D.*, has been Senior Medical Officer of the Belgian Eternit company since 1960 and Secretary of the Benelux Comite d'Information de l'Amiante since its foundation. He is a member of the ILO Permanent Commission on Asbestos. . . . *Lionel Piuze*, Mining Engineer, is Vice President and General Manager for Lake Asbestos of Quebec Ltd. Prior to joining LAQ 19 years ago, he served as Manager of two plants for Asbestos Corporation Ltd. . . . *John H. Marsh*, is Director of Environmental Affairs for Raybestos-Manhattan, Inc. He has been a Director of the Asbestos Information Association/North America since 1971 and was President from 1972 through 1974. He has been in the asbestos industry for 27 years and has been mainly concerned with the production of asbestos textiles, packings and friction materials.

AIA/NA COORDINATES INDUSTRY RESPONSE TO PROPOSED REVISION OF ASBESTOS STANDARD

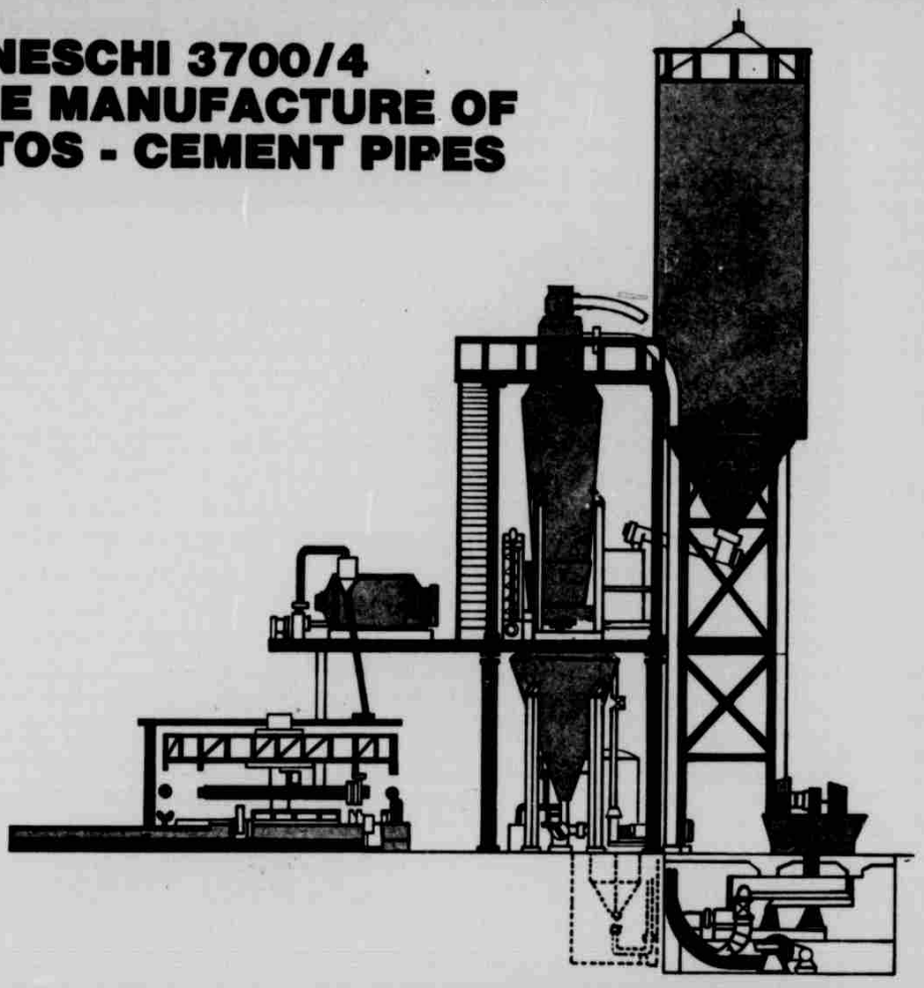
Some 65 representatives from companies and trade associations representing manufacturers and processors of asbestos products in the United States participated in a meeting held in Washington, D. C., on February 4, by the Asbestos Information Association/North America. At the gathering, AIA/NA presented preliminary statements on medical, technological feasibility and economic impact aspects of the proposal by the U.S. Occupational Safety and Health Administration to revise the Asbestos Standard (see January 1976 ASBESTOS, pages 36-38). An overwhelming majority of the attendees endorsed the preliminary industry response which will have to be finalized by the deadline for comments which has been extended a further 60 days to April 9, 1976. . . . OSHA has received 92 written comments on the proposed revision. The responses indicate that the "2-fiber"

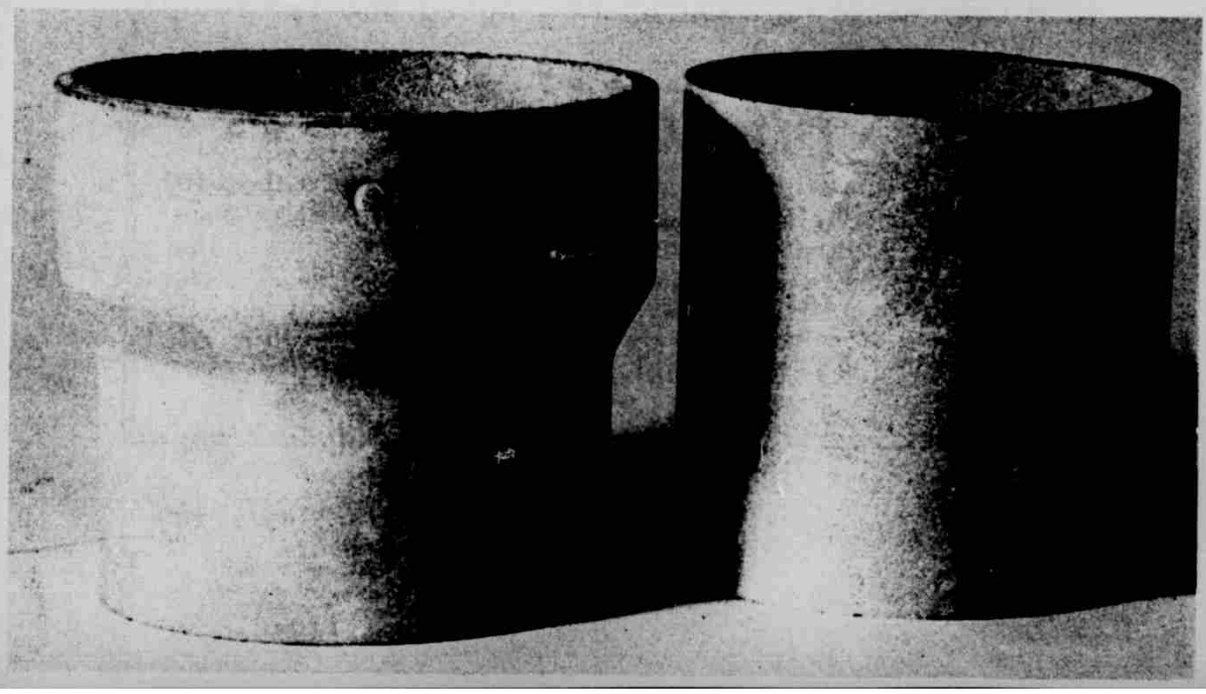
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level has been or can be attained by application of engineering technology in most industrial situations. The proposed "0.5-fiber" level is opposed as unnecessary, impracticable and lacking medical justification.

OCCUPATIONAL HEALTH/SAFETY PROGRAMS ACCREDITATION COMMISSION

A new accrediting commission promises to play a significant role in helping industry understand and implement effective occupational health and safety programs. Called OHSPAC (Occupational Health/Safety Programs Accreditation Commission), the non-profit body has begun contacting industrial companies and other organizations throughout the United States to make known its purpose and the benefits it offers through the process. The accreditation is based on fulfilling criteria in five major concerns of occupational health and safety—medicine, nursing, industrial hygiene, health physics and the administration of these functions. The process reviews policies, organization, programs, regulatory compliance, facilities, equipment, diagnostic procedures, hazard prevention, emergency preparedness, record-keeping and a multitude of other operational, assessment and surveillance criteria. OHSPAC is a concerted effort of the American Academy of Industrial Hygiene, American Academy of Occupational Medicine, American Association of Industrial Nurses, American Conference of Governmental Industrial Hygienists, American Industrial Hygiene Association, American Occupational Medical Association, American Society of Safety Engineers, and the Health Physics Society. OHSPAC originally was established some five years ago through a NIOSH grant to the Occupational Health Institute. The ensuing years of research and consultation have led to the program now being implemented.

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DUST COLLECTION SYSTEMS

SEAMLESS FILTER TUBE

The Carborundum Seamless Tube has been announced by *The Carborundum Company,* Niagara Falls, New York, as a revolutionary new product development in air pollution control. The proprietary process for manufacturing the device was developed by the company's Filter Media Division and represents a complete departure from conventional manufacturing techniques of making dust bags in a textile converting operation in that it is made directly from raw yarn. Tests indicate the new tube reduces power consumption by the collector up to 15% and the potential exists for up to 25% additional collector throughput due to the elimination of the seam and the bag's unique porous fabric. The interlocking nature of the fibers in the fabric also allows the bag to maintain its dimensional stability instead of excessively stretching or shrinking under severe operating conditions.

PILOT UNIT TESTS ON SITE

A new pilot dust collector mounted as an integral unit on a structural steel frame is available from *Aerodyne Development Corporation,* Cleveland, Ohio, to permit testing of air separation requirements, on location. The unit consists of a 1,000 cfm style "SV" Aerodyne Dust Collector complete with ductwork and blowers that can be shipped in one piece to the testing site. It can be tried in several ways to determine the optimum method for individual problems. The unit utilizes a secondary air stream passing through vanes and spiraling down the walls of the collector. This centrifugal action carries the dust out of the dirty air flow and down into the hopper. It reaches 100% efficiency at 6 microns and 94% efficiency at 2 microns.

CONVERSION TO SEMI-TRAILER

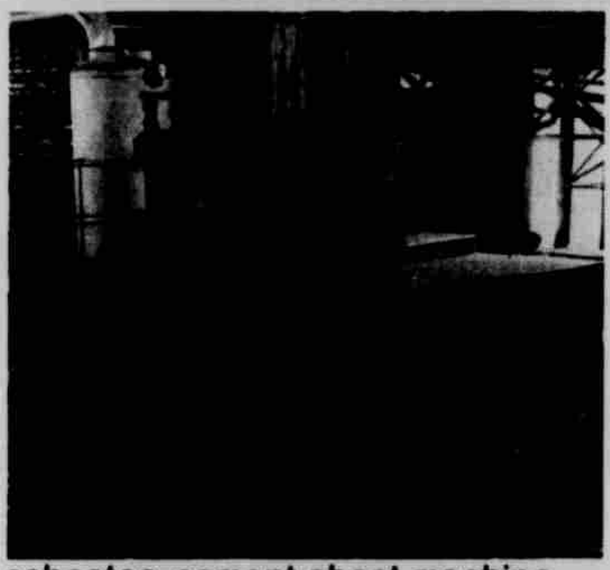
A unique shipping technique that converts dust collectors to semi-trailers was devised by *Aeropulse Incorporated,* Cornwells Heights, Pennsylvania. The unusual system was developed by the company to deliver its huge bag collectors to the job site. The elimination of a low-boy trailer permits the use of 10-foot bags instead of the usual 8-foot size. Capacity is increased 25% with only a slight increase in cost. The hopper assembly is transported on another trailer and field erection is complete in just two days.

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MARKET CONDITIONS

GENERAL BUSINESS

At the start of the new year, practically all signs point to a continuation of the economic recovery which started in the second quarter of 1975. While the pace of the upswing has slowed somewhat since late last year, the general feeling is that this moderation is healthy and will guarantee a continuation of the improving trend now underway while minimizing the risks of renewed excessive inflation.

Retail sales were extremely strong during the Christmas season and this strength continued through January, reflecting an upturn in consumer confidence. Much of the improvement has occurred in soft goods but recently consumers' durable goods, with automobiles leading the way, have been showing more vitality than has been evident for more than a year. Housing, on the other hand, has made only fitful attempts at recovery. Heavy inflows of money into savings institutions presage a plentiful supply of cheaper mortgage money but the high costs of both new and used housing continue to impede increased activity in this area. Heavy construction is also lagging due chiefly to the low level of construction of utility company power plants.

An increasing money supply and lower-than-anticipated requirements for business financing have resulted in a precipitous decline in short-term interest rates. As this is written, the yields on 90-day Treasury Bills are under 5% and the general level of banks' prime lending rates stands at 6¾% and seems headed lower. Yields on long-term bonds have also eased as inflation appears to be subsiding.

Lower yields on fixed income securities, rapidly improving corporate profits and a pronounced change in investor confidence combined to start a stock market rally in December which gathered momentum through January and, on all-time record trading volume, carried the averages to their highest levels since late 1973. Assuming the market to be a truly accurate forecaster of future business conditions, continuing improvement in general business for some time to come seems assured.

Since we are in a Presidential election year, politics will almost certainly play an important role in determining the near-term course of the economy. With the rate of unemployment hanging above 8% and inflation still posing a very real threat, we find a preponderance of so-called "liberals" willing to risk a resurgence of inflation to reduce unemployment while most con-

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servatives will apparently tolerate relatively high unemployment for a protracted period to insure against renewed inflation. Thus it is likely the ultimate choice will lie between a "big spender" who offers immediate jobs for everyone and an inflation fighter whose policies would be directed toward maximum benefits over the longer term at the cost of some immediate discomfort. If our failure to come to grips with the energy problem truly reflects the temper of the American people, it is questionable whether the "big spender" philosophy can be overcome in the coming election at either the Presidential or the Congressional level. Even though a conservative might win the Presidency, the liberal majority in Congress would still be strong enough to pass almost any spending measures it pleased over Presidential vetoes, with the thought that, if inflation resulted, we could always resort to some form of wage and price controls.

In view of our recent bitter experiences with rampant inflation and wage-price controls, most economists feel that the heavy spending route can lead only to an eventual recurrence of the severe economic problems we have encountered during the past few years but on a much greater scale. While this is not an endorsement of any political party or candidate, it is to the credit of the present Administration that it has, thus far, consistently resisted the pressures for "quick fixes" and has favored policies which hold the greatest promise for stability and economic good health over the long term.

CONSTRUCTION CONTRACTS

YEAR 1975—Contracts for future construction in December, at $5.4-billion, fell 23% below the year-ago month, indicating a worsening of the already soft construction market. The December Dodge Index was only 137, close to the 135 rate marking the bottom of the recession back in January 1975. The weak contracting reported in December brought the 1975 total value of new construction to $90-billion, 4% less than in 1974. It was the second consecutive decline in new construction contract awards which reached their peak of $99.3-billion in 1973.

For the year 1975, *nonresidential* building contracts declined 8% to $30.3-billion. . . . The value of *residential* building contracts reached $31.3-billion, down 7% from 1974. Both 1975 and 1974 were far short of the record $45.7-billion set in 1973. . . . Contracts for *nonbuilding* construction, which included the multi-billion dollar Trans-Alaska pipeline, were a record $28.4-billion, up 5% from 1974 and the only major category of construction to show an increase in 1975. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

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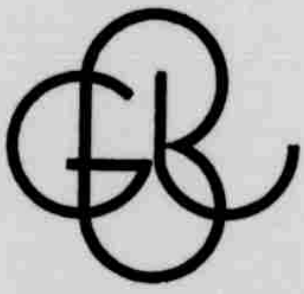
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— Special plants for preparation of wet and dry Asbestos.

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

OCTOBER 1975

Unmanufactured Asbestos:			
Amosite, South Africa	s.tons	19	$ 8,550
Crocidolite (Blue), Mozambique	s.tons	24	5,270
South Africa	s.tons	680	468,403
Chrysotile, Crudes, Rhodesia	s.tons	241	303,927
South Africa	s.tons	315	353,134
Chrysotile, Spinning Fibers, Canada	s.tons	614	547,024
South Africa	s.tons	18	21,925
Chrysotile, Other, Canada	s.tons	42,461	8,255,809
Mexico	s.tons	2	382
USSR	s.tons	86	38,640
Other Crudes & Fibers, Canada	s.tons	444	52,398
South Africa	s.tons	206	70,594
USSR	s.tons	573	115,728
		45,683	$10,241,784
Manufactured Asbestos Products:			
Asbestos yarn, cloth, tape, etc.	Lb	669,956	$ 992,295
A-C pipes, tubes & fittings	Lb	162,962	16,883
Other asbestos-cement articles	Lb	3,489,896	547,690
Other asbestos articles		..	453,640
			$2,010,508

JANUARY-OCTOBER 1975

Unmanufactured Asbestos:			
Amosite, South Africa	s.tons	3,622	$ 1,432,341
Crocidolite (Blue), Mozambique	s.tons	24	5,270
South Africa	s.tons	11,142	4,699,100
Chrysotile, Crudes, Canada	s.tons	51	7,387
Rhodesia	s.tons	1,633	1,521,421
South Africa	s.tons	940	663,658
Swaziland	s.tons	2,756	952,544
United Kingdom	s.tons	277	82,982
USSR	s.tons	4,158	867,507
Chrysotile, Spinning Fibers, Canada	s.tons	6,229	4,726,257
Rhodesia	s.tons	382	368,845
South Africa	s.tons	18	21,925
Chrysotile, Other, Canada	s.tons	382,226	72,503,529
Gaza Strip	s.tons	152	25,914
Mexico	s.tons	66	13,234
Rhodesia	s.tons	32	22,871
South Africa	s.tons	207	56,631
USSR	s.tons	86	38,640

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U.S. IMPORTS—CONTINUED

Other Crudes & Fibers, Canada	s.tons	3,876	617,067
Finland	s.tons	329	32,841
Italy	s.tons	87	15,070
Rhodesia	s.tons	576	357,486
South Africa	s.tons	745	237,228
USSR	s.tons	4,667	1,129,224
		424,281	$90,398,972

Manufactured Asbestos Products:

Asbestos yarn, cloth, tape, etc.	Lb	7,378,039	$10,103,253
A-C pipes, tubes & fittings	Lb	10,945,060	1,098,486
Other asbestos-cement articles	Lb	36,286,915	5,009,219
Other asbestos articles			4,455,898
			$20,666,856

CANADIAN FIBER SHIPMENTS

According to Statistics Canada, Ottawa, primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 152,380 short tons in *November* 1975 and 140,103 tons in *December 1975* . . . Shipments for the *Year 1975* totaled 1.2-million tons valued at an estimated $267-million, compared with 1.8-million tons valued at about $302-million for the preceding year. Quantities of shipments for the years 1975 and 1974 are as follows:

PRIMARY CANADIAN PRODUCERS' SHIPMENTS

Province	Year 1975	Year 1974
Quebec Plants—		
Crudes 1 & 2 and Group 3—Spinning	10,040	32,432
Group 4—Shingle Fiber	208,926	351,804
Group 5—Paper Fiber	74,131	202,320
Group 6—Stucco Fiber	162,461	274,387
Group 7—Refuse	428,336	675,313
Group 8—Sand	116	315
Total All Grades From Quebec	884,010	1,536,571
Plants in Newfoundland, Ontario British Columbia and the Yukon	279,512	274,093
Total Short Tons	1,163,522	1,810,664

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SOUTH AFRICAN OUTPUT & EXPORTS

The Department of Mines, Johannesburg, reports that *production* of asbestos in the *First Quarter of 1975* totaled 85,751 metric tons, 9,782 tons more than in the first three months of 1974. *Exports* were valued at R17.3-million, ahead R6.6-million over the same period a year earlier. The breakdown for the latest quarter is as follows:

JANUARY-MARCH 1975

Variety	Production (Metric Tons)	Exports (Rands)
Cape Blue	39,996	R 9,531,365
Chrysotile	23,851	1,719,262
Amosite	21,717	6,021,105
Anthophyllite	187	26,610
	85,751	R17,298,342

U.S. PRODUCTION & CONSUMPTION

Preliminary figures from the U.S. Bureau of Mines indicate that *production* of asbestos (all Chrysotile) in the United States during 1975, at 100,000 short tons, was 11% less than in 1974 although the total value, at $14,520,000, was 6% higher than in the previous year. The average value per ton rose from $122.00 to $145.00. *Apparent consumption* reached 629,000 tons, 73% less than in the prior year, reflecting the effects of the 7-month miners' strike in Quebec. Canada continued to be the major supplier of asbestos consumed in the U.S. Based on imports for the first nine months of 1975, South Africa supplied 14,000 tons of Crocidolite (up over 24%) and 4,900 tons of Amosite (down 40%).

WORLD ASBESTOS PRODUCTION

Preliminary data available to the U.S. Bureau of Mines show world asbestos production to have been slightly higher in 1974 than in 1973. Together, Canada and the USSR produced more than 73% of the 1974 output. A geographical breakdown of world production (excluding Czechoslovakia, North Korea and Romania) is as follows:

WORLD PRODUCTION (Metric Tons)

Continent	Year 1974	Year 1973
North America	1,756,799	1,826,189
South America	45,468	47,620
Europe	1,519,776	1,446,613
Africa	448,143	450,445
Asia	278,638	282,739
Oceania	56,400	41,472
	4,105,224	4,095,078

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EXPORTS FROM THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos: **OCTOBER 1975**

Fibers not further processed than beaten, washed or graded to length	s.tons	2,047	$ 809,047
Waste and refuse	s.tons	1,356	312,744
		3,403	$ 1,121,791

Manufactured Asbestos Products:

A-C shingles & clapboard	Lb	3,575,484	$ 522,760
Other a-c fiber-cement articles	Lb	1,849,661	425,279
Gaskets	Lb	26,008	97,578
Packing	Lb	376,722	820,439
Heat or sound insulation			428,607
Textiles & yarns	Lb	1,587,351	783,513
Protective clothing			237,922
Mfrs. other than friction materials			918,292
Clutch facings & linings for auto. use	No	41,420	72,988
Other clutch facings & linings	No	14,218	8,063
Brake linings for automotive use	Lb	699,912	599,394
Other brake linings	Lb	128,527	138,234
			$ 5,153,069

Unmanufactured Asbestos: **JANUARY-OCTOBER 1975**

Fibers not further processed than beaten, washed or graded to length	s.tons	13,548	$ 5,465,109
Waste and refuse	s.tons	16,998	3,405,052
		30,546	$ 8,870,161

Manufactured Asbestos Products:

A-C shingles & clapboard	Lb	23,390,040	3,811,347
Other a-c fiber-cement articles	Lb	35,715,085	6,629,079
Gaskets	Lb	427,862	1,432,819
Packing	Lb	4,287,785	9,342,337
Heat or sound insulation			4,148,731
Textiles & yarns	Lb	9,220,289	6,063,088
Protective clothing			607,746
Mfrs. other than friction materials			9,360,069
Clutch facings & linings for auto. use	No	715,103	1,173,611
Other clutch facings & linings	No	496,923	288,154
Brake linings for automotive use	Lb	6,368,583	5,572,042
Other brake linings	Lb	1,760,601	2,398,641
			$50,827,664

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Our Program
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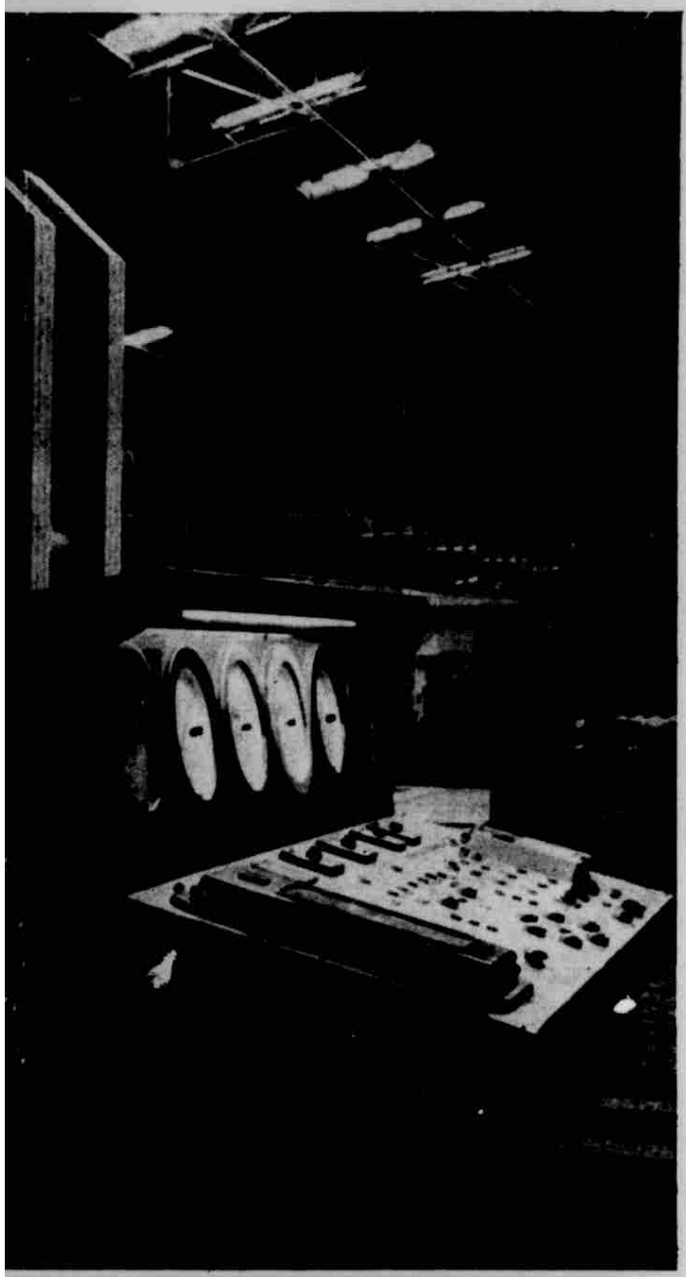
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EXPORTS FROM CANADA

OCTOBER 1975

FROM: STATISTICS CANADA

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	334	31,050	5,189
Eastern Europe	..	..	..	..
Middle East	..	60	2,543	328
Africa	..	..	240	11
Asia	..	35	4,737	1,845
Oceania	..	..	2,492	176
So. & Cen. America & Antilles	..	2	5,433	1,864
United States	100	440	9,279	30,723
	100	871	55,774	40,136

The total amount of unmanufactured asbestos exported in *October 1975* was 96,881 short tons, valued at $26,026,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 164,000
Asbestos brake linings & facings	90,000
Asbestos-Cement building materials	1,213,000
Other basic asbestos products	411,000
	$ 1,878,000

JANUARY-OCTOBER 1975

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	54	6,896	213,812	90,331
Eastern Europe	..	430	7,133	1,429
Middle East	..	100	11,621	4,931
Africa	..	..	4,990	770
Asia	45	854	44,982	47,979
Oceania	..	11	28,663	2,402
So. & Cen. America & Antilles	..	1,335	59,270	21,849
United States	101	5,707	127,234	260,634
	200	15,333	497,705	430,325

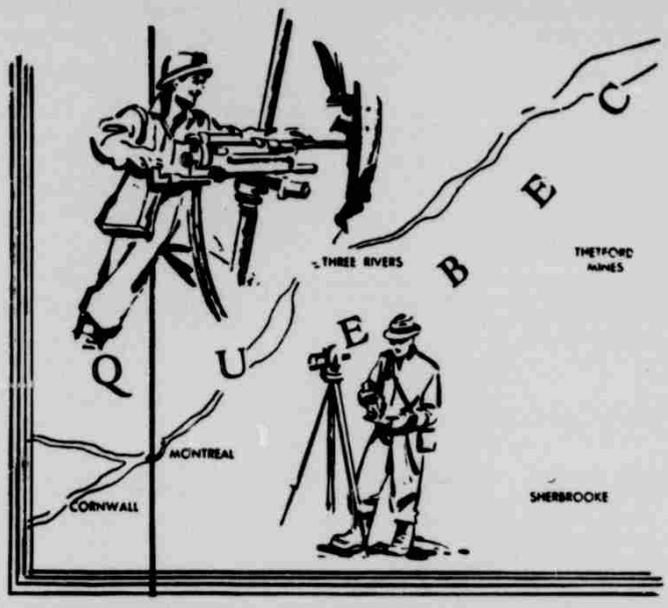
The total amount of unmanufactured asbestos exported in *January-October 1975* was 943,563 short tons, valued at $240,251,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 2,199,000
Asbestos brake linings & facings	1,677,000
Asbestos-Cement building materials	6,227,000
Other basic asbestos products	3,419,000
	$13,522,000

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LATEST ASBESTOS PRICES

ARIZONA *Per Ton of 2000 Lbs., F.O.B. Globe, Arizona*
As of April 17, 1975 *U.S. Dollars*

No. 1 Crude (Soft)	$ . .	$2000.00
No. 2 Crude (Soft)	. .	1500.00
AAA	. .	1100.00
Group No. 3—Nonferrous Filtering—Plastic	715.00—	800.00
Group No. 4—Nonferrous Filtering—Plastic	700.00—	800.00
Group No. 7—White Shorts	100.00—	200.00

QUEBEC *Per Ton of 2000 Lbs., F.O.B. Mine*
As of December 1, 1975 *Canadian Dollars*

No. 1—Crude	$ . .	$3496.00
No. 2—Crude	. .	1899.00
No. 3—Spinning Fiber	891.00—	1463.00
No. 4—Asbestos Cement Fiber	492.00—	829.00
No. 5—Paper Fiber	278.00—	392.00
No. 6—Paper and Shingle Fiber	236.00—	244.00
No. 7—Shorts	89.00—	198.00

CASSIAR *Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of January 1, 1976 *Canadian Dollars*

	Cassiar Mine	
C-1		$3149.00
AAA	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1820.00
AA	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1447.00
A	Grade—Nonferrous Spinning Fiber/Canadian Group 3	1102.00
AC	Grade—Nonferrous Spinning Fiber/Canadian Group 3	794.00
AK	Grade—Asbestos Cement Fiber/Canadian Group 4	566.00
AS	Grade—Asbestos Cement Fiber/Canadian Group 4	490.00
AX	Grade—Asbestos Cement Fiber/Canadian Group 5	449.00
AY	Grade—Asbestos Cement Fiber/Canadian Group 5	315.00
AZ	Grade—Asbestos Cement Fiber/Canadian Group 6	233.00
	Clinton Mine	
CP	Grade—Asbestos Cement Fiber/Canadian Group 4	531.00
CT	Grade—Asbestos Cement Fiber/Canadian Group 4	481.00
CY	Grade—Asbestos Cement Fiber/Canadian Group 5	315.00
CZ	Grade—Asbestos Cement Fiber/Canadian Group 6	233.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of January 1, 1976 *U.S. Dollars*

Grade 4T—Fiber	$ . .—$	418.00
Grades 5D thru 5R—Fiber	275.00—	324.00
Grade 6D—Waste	. .—	200.00
Grades 7D thru 7T—Shorts	83.00—	160.00
Grade 7TF—Floats (Shorts)	. .—	72.00
Grade 8S—Shorts	. .—	54.00
Hooker No. 1—in 50-lb. woven poly bags/*eff. 12/1/75*		970.00
Hooker No. 2—in 100-lb. woven poly bags/*eff. 12/1/75*		485.00

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ANNUAL REPORTS—1975

JAMES HARDIE ASBESTOS LTD.

Net operating profit of the Hardie Group for the year ended March 31, 1975, was $10.5-million compared with $8.5-million the previous year. After adjustment for extraordinary items and the interests of outside shareholders in subsidiary companies, net profit attributable to stockholders of James Hardie Asbestos Ltd., Sydney, Australia, was $8.8-million compared with $7.9-million. . . . During the year, Isotex Industries Pty. Ltd. changed its name to J. H. Computer Services Pty. Ltd. The company remains a wholly-owned subsidiary of Hardie. . . . The principal activities of the Group are the manufacture and distribution of asbestos-cement building products, a-c and PVC pipes and conduits, and brake linings and other friction materials.

BUILDING PRODUCTS—For most of the year building construction consisted mainly of the completion of projects under way in early 1974 and moved at a slow and costly rate because of industrial disputes and shortages of labor and materials. The primary demand for Hardie's products decreased because housing starts were greatly reduced from the prior year. However, due to high interest rates and a shortage of financing, people were improving their existing homes rather than purchasing new ones, resulting in an increase in volume of sales. . . . A building products factory is under construction at Wacol, Queensland, and is expected to begin production in early 1976. . . . An increase in export activity was noted, particularly with shipments of decorated a-c sheets to Japan. Domestic cost increases together with competition from alternative products will tend to restrain future growth. New areas, including the Middle East, are being explored for export opportunities.

PIPES—Hardie reported a growth in the tonnage of a-c pipe sales. Exports of Hardie pipe products are on the rise, one reason being the current aid program to supply water to main cities in Indonesia. Both domestic and export markets show promise of further growth. Special effort has resulted in extended applications for a-c pipe in aggressive conditions and in new uses in large commercial buildings. Demand for pipe at mining operations in Pilbara has been good and an additional 7 km of pipe has been ordered for the Yule River-Turner River-Port Hedland water supply scheme. Other major water supply plans are in the advanced planning stage and should become realities in the coming months.

AROUND THE GROUP—Hardie acquired an option on 134 acres of land and has preliminary approval from the local Council to construct an a-c plant at *Berrima Junction, N.S.W.* Feasibility and environmental impact studies must be made before other prospects can be defined. . . . Production again declined at *Asbestos Mines Pty. Ltd.* but this is to be expected from a mine that is nearing the end of its economic life. However, the tonnage produced represented a small but useful contribution to the Hardie Group's requirements. . . . *Montpelier Foundry Pty. Ltd.* had a much improved year despite economic conditions and the cost

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disability of a Tasmanian company having the greater part of its market on the mainland. Hardie has agreed to purchase an adjoining property and plans are in the offing for further improving Montpelier's production capacity and profitability. . . . *Hardie-Ferodo Pty. Ltd.*—The automotive industry and its suppliers had a difficult year as sales volume for original equipment declined and costs increased. At the same time, improved processes to produce brake and clutch linings were introduced and additional effort was directed to Australian and export replacement parts markets. Towards the end of 1974, Hardie-Ferodo composition railway brake blocks were subjected to dynamometer tests under the supervision of the Association of American Railroads at the University of Illinois. This resulted in approval being given for the use of the blocks on railroads throughout the United States. . . . *P. T. Harflex Asbes Semen, Indonesia,* suffered some contraction in sales, resulting from a general downturn in business activity. Costs increased greatly, particularly of raw materials, without an accompanying increase in selling prices due to market pressures. Since the start of the new financial year, however, sales volume and prices have improved and better results are being realized. . . . *P. T. James Hardie Indonesia* began construction of a new a-c plant at Tangerang, West Java, outside Jakarta. Production of building products is now expected to commence early this year with pipe production following a few months later. . . . *United Asbestos Cement Berhad, Malaysia*—Pipe production capacity has been increased and the additional output is being sold. The new sheet machine was to be completed and producing by the end of 1975.

UNITED ASBESTOS INC.

Net income for United Asbestos Inc., Montreal, Quebec, for the year ended March 31, 1975, was $5,525,645 or 78¢ per share against $3,042,976 or 43¢ per share for the previous annual period.

JOINT VENTURE—Operations of the joint venture with Asarco Inc. resulted in record net profits of $17,286,230 which included deferred development and capital expenditures totaling $6,262,098. Comparable figures for the prior year are $12,179,617 and $5,554,315. Before amortization, United's share of the earning power of the joint venture was $8,643,115 against $6,089,809 for the prior year. With the complete repayment in May 1974 of capital and preproduction advances by Asarco to the joint venture, United's share of the net proceeds or mine profits has increased four-fold. At their peak, Asarco advances amounted to some $39,897,000. For the year to March 31, 1975, operations resulted in asbestos production of 149,693 tons and shipments of 150,003 tons. Ore reserves are estimated by Asarco at some 100,032,000 tons.

MIDLOTHIAN MINE—United's main operation is its wholly-owned asbestos mine at Midlothian Township in the Province of Ontario. The Chrysotile ore deposit is indicated to contain 150-million tons of which some 32-miiiion have been presently engineered for mining. The mining

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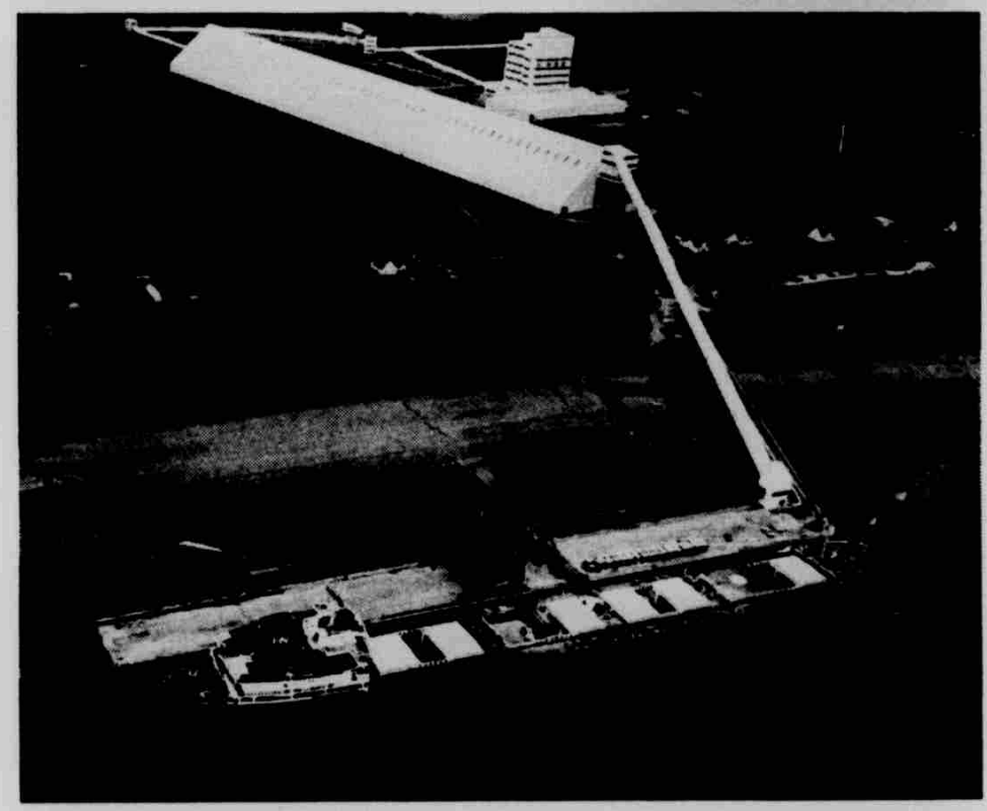
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ASBESTOS



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facilities are designed for mining operations of over 20 years at the present capacity. Operations will be by open pit with a low ratio of waste-to-ore of 1.5:1 over the life of the mine, although a waste-to-ore ratio of .5:1 is indicated for the first few years of mining operations. Fiber content in the ore varies from 9.65% to 7.7% with an overall recovery estimated at 9%. The cost of bringing the Midlothian Mine into production is placed at some $30-million.

TAXATION—In 1974 changes in the Canadian Income Tax Act substantially increased tax rates in the natural resources industry—by both Federal and Provincial Governments. As a result of these changes, and because of increased profitability, the Black Lake operation is in a taxable position. At the new Midlothian Mine, preproduction costs offset against its earnings will eliminate income taxes for the first 2-3 years of operation.

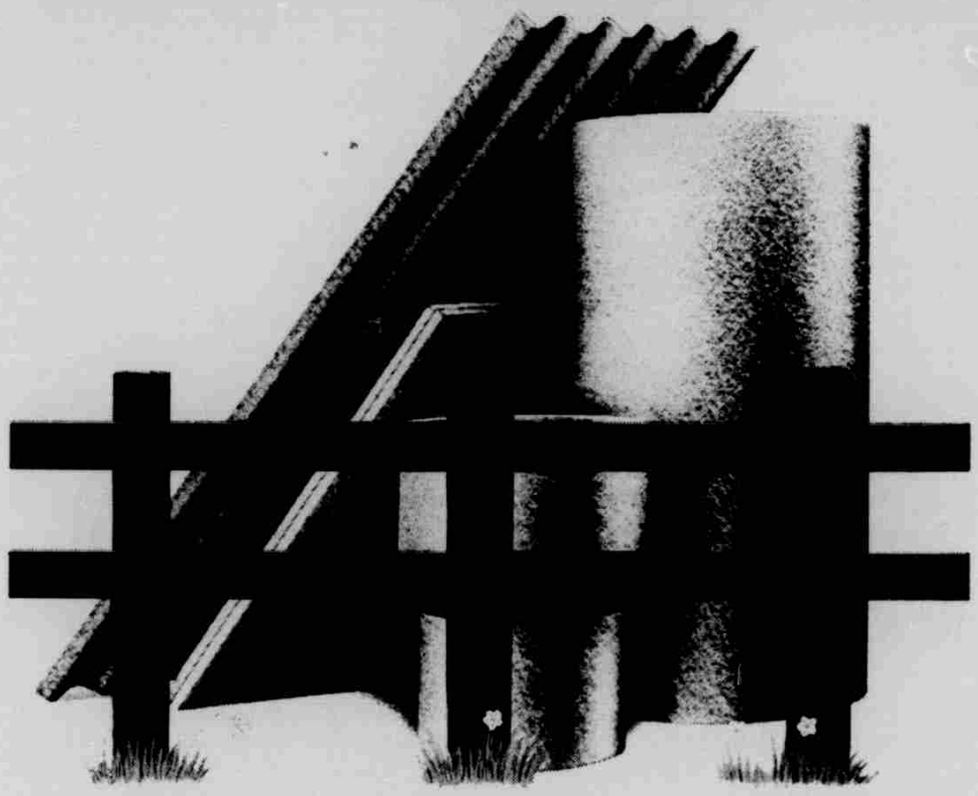
ASBESTOS STOCK QUOTATIONS

Close—January 20, 1976

Abitibi Asbestos	C$1.05	G&W (pfd 2.50)	40
Advocate Mines	C$1.50	G&W (pfd 3.87)	90
Armstrong Cork	27 1/8	G&W (pfd 5.75)	68 1/4
Armst Cork (pfd 3.75)	49 1/2	IC Industries	17 3/4
Asarco	15	IC Ind. (pfd 6)	79
Asbestos Corporation	C$24.875	IC Ind. (pfd 3.50)	38 1/2
Bendix	49 1/2	Jim Walter Corporation	42 3/4
Bendix (pfd 3)	73 1/2	Jim Walter (pfd 1.60)	45 3/4
Carlisle	13 1/8	Johns-Manville	26 7/8
Cassiar Asbestos	C$6.625	Kennecott Copper	34 1/8
Cerro Corporation	17 7/8	Maremont	20 1/2
Certain-teed Products	17	McAdam Mining	C$.355
Charter Conso. (pence)	190	National Gypsum	14 5/8
Colt Industries	33 3/8	Pathfinder	C$.23
Colt Ind. (pfd 4.25)	52	Porter, H. K. (pfd 5.50)	67
Colt Ind. (pfd 1.60)	20 7/8	Raybestos-Manhattan	30 7/8
Conwest	C$3.50	Rio Algom	C$31.75
Flintkote	19 5/8	Royal Industries	6
F-kote (pfd-A 4.50)	57 3/4	Supradur	4 3/8 Bid; 4 7/8 Asked
F-kote (pfd-B 2.25)	28	Union Carbide	70 3/8
GAF Corporation	13 1/2	Uniroyal	9 1/8
GAF (pfd 1.20)	18 3/8	Uniroyal (pfd 8)	78 1/2
Gulf & Western	24	United Asbestos Inc.	4 3/8
G&W (warrants)	5 1/8	Woodsreef Minerals	C$.64

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ROBERT W. WINSON
1917—1976

Robert W. Winson passed away suddenly on January 11, 1976, at age 58. Since 1971 he had been Mine Project Manager, Asbestos Fibre Division, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec.

A native of Edmonton, Alberta, Mr. Winson joined C.J-M in 1946 as a General Foreman at the Mills, became Assistant Superintendent in 1951 and Superintendent in 1953. In 1956 he was sent, temporarily, to the subsidiary firm of Rhodesian Asbestos Ltd. and later served as Assistant to, and then, General Manager of that company. In 1959 he returned to Asbestos as Superintendent at the C.J-M Mills. In 1961 he was named Mine Manager at the Munro Mine, Ontario, and in 1967 became Mine Manager at the Reeves Mine at Timmins, Ontario.

Prior to joining C.J-M, Mr. Winson was employed by Demerera Bauxite Co. Ltd. and the Macassa Gold Mine. He was a navigator in the RCAF for two years during World War II.

Mr. Winson was a Mining Engineering and Metallurgy graduate of the University of Alberta and a member of the Canadian Institute of Mining & Metallurgy, the Association of Professional Engineers in Alberta, the Canadian Legion and numerous other organizations. He is survived by his wife and two sons.

SIR VAL DUNCAN
1913—1975

Sir Val Duncan, Chairman and Chief Executive Officer of Rio Tinto-Zinc Corporation since 1964, died suddenly in London, England, in December. At the time of his passing he was Chairman of Brinco Ltd., Chairman and President of Tinto Holdings Canada Ltd., and a Director of Rio Algom Ltd., Toronto, Ontario, Conzinc Rio Tinto of Australia and the Bank of England.

Born in 1913 and educated at Harrow School and Brasenose College, Oxford, Sir Val obtained an MA in law and was called to the English Bar in 1938. During World Ear II he served as Colonel with the Royal Engineers, received the OBE and was twice awarded the American Legion of Merit.

Before joining the Rio Tinto organization in 1948, Sir Val was Assistant Secretary at the Control Office for Germany and Austria, and then moved to the National Coal Board where he became Assistant Director of Marketing in 1947. His interest in Canada began in 1953 when he became the first President of the Rio Tinto Mining Company of Canada. The successor company, Rio Algom Mines, elected him Chairman in 1965, a position from which he retired in April last year.

Sir Val received his knighthood in June 1968 for export achievement and services to British industry.

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BIRTHDAYS & PROMOTIONS

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

Colon Brown, Chairman of the Board & Chief Executive Officer, National Gypsum Company, Buffalo, New York, March 17.

William H. Johnston, President, Atlas Textile Company, North Wales, Pennsylvania, March 21.

Thomas C. Osborne, Director of Exploration, ASARCO Incorporated, New York City, March 21.

Ray A. Plauche, Plant Manager, Asbestos-Cement Plant, National Gypsum Company, New Orleans, Louisiana, May 21.

Toye L. Blagg, Marketing Manager, Nicofibers, Inc., a subsidiary of Nicolet, Inc., Shawnee, Ohio, March 22.

T. P. O'Hagan, Manager-Private Brand Accounts, Industrial Products Division, Johns-Manville Corporation, Denver, Colorado, March 22.

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

Philip P. Rost, Chairman of the Board, Pacor Inc., Philadelphia, Pennsylvania, March 23.

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

R. H. Hurst, Manager, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Yukon Territory, March 25.

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

George Barge, President, Atlas Asbestos Company, Montreal, Quebec, March 27.

J. B. Dorsey, General Manager, Architectural and Engineered Products Division, Johns-Manville Corporation, Denver, Colorado, March 27.

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

A. E. Alpine, Vice President of Operations, Cement Asbestos Products Company, Birmingham, Alabama, March 29.

Ross E. Sampson, Vice President & Plant Group Manager, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, March 31.

A. M. Phillips, Superintendent-Vancouver Operations, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, British Columbia, April 1.

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

Francis H. May, Jr., Executive Vice President for Finance and Administration & a Director, Johns-Manville Corporation, Denver, Colorado, April 2.

Joseph E. Kindregan, Director of Corporate Marketing Projects, Johns-Manville Corporation, Denver, Colorado, April 4.

Peter Reiser, Export Sales Manager, Carey-Canadian Mines Ltd., a Jim Walter company, Atlanta, Georgia, April 4.

E. Paul Burke, Senior Vice President-Transportation and Physical Distribution, Johns-Manville, Denver, Colorado, April 5.

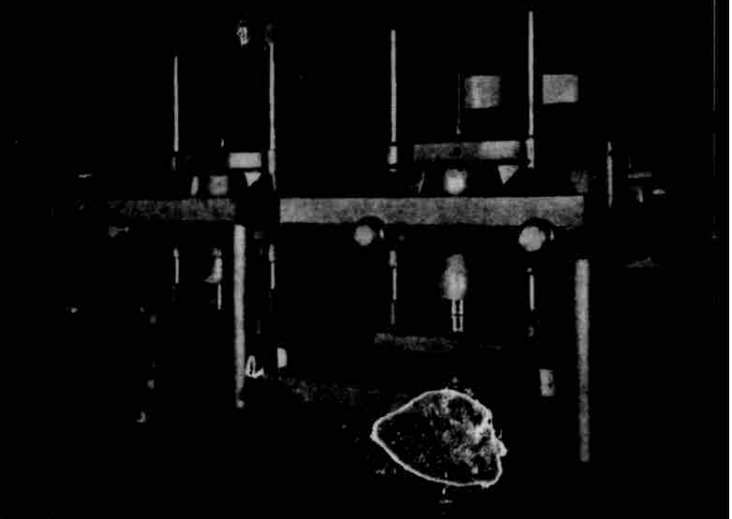
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INTERASBEST



K. S. Andrews, a Director, Cape Asbestos Fibres Ltd., Uxbridge, Middlesex, England, April 8.
A. C. Beguin, Manager of Operations, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, April 8.
Stuart Charbula, Executive Vice President, Hedman Mines Ltd., Timmins, Ontario, April 8.
G. L. Kingston, Plant Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, April 11.
Henry B. Moreno, Senior Vice President, Fiber Glass and International Divisions, Johns-Manville Corporation, Denver, Colorado, April 11.
W. E. Royds, General Superintendent, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Yukon Territory, April 11.
J. K. Shepherd, Deputy Managing Director, Turner & Newall Ltd., Manchester, Lancashire, England, April 12.
Marcel De Rouin, Mine Manager, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, April 13.
W. S. Scott, a Director, Cape Asbestos Fibres Ltd., Uxbridge, Middlesex, England, April 13.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.

JOHNS-MANVILLE CORPORATION

John A. Love, former Governor of Colorado, was elected a Director of Johns-Manville, effective January 1, 1976, it was announced by *W. R. Goodwin*, J-M President and Chief Executive Officer. Mr. Love served as Governor of Colorado for an unprecedented three consecutive terms from 1962 to early 1973. He is President and Chief Executive Officer of Ideal Basic Industries, Inc., Denver.

STANDCO INDUSTRIES INC.

Vincent J. Meyer has been promoted to Manager of Production at Standco's largest plant, located in Houston, Texas. He will supervise all manufacturing activities at the plant which is a principal producer of oilfield brake linings and a major manufacturer of stud bolts.

TURNER & NEWALL LTD.

A. Proctor retired effective November 30, 1975, as a Director of T&N and as Chairman of its subsidiary, Newalls Insulation Co. Ltd. As of December 1st, *J. K. Shepherd*, T&N Deputy Managing Director, is serving as Non-Executive Chairman of Newalls. *C. J. Sinclair* continues as Managing Director of Newalls and is that subsidiary's Chief Executive. . . . Other T&N appointments include: *J. H. Haslewood*—Controller, Group Accounting; *J. G. Shepherd*—Group Internal Auditor; *N. J. Godden*—Controller of Group Pensions and Executive Services; and *F. Wolstenholme*—Finance Director of TAC Construction Materials Ltd.

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British 1,410,736—A membrane for use in filtering small analytical biological specimens is produced by mixing a major portion of cellulose with a minor portion of asbestos, forming a sheet from the mixture, adhering to the sheet a spongy mass of polyurethane and adhering to the polyurethane a resilient sheet; E. M. Zipilvan, W. F. Blatt & H. H. Loeffler; assigned to Amicon Corporation, October 22, 1975; 5 pages.

British 1,412,166—An improved well packer fluid for deep oil or gas wells consists of oil or water as a liquid phase, Chrysotile asbestos, fumed alumina, an organic titanate to render the asbestos hydrophobic, a surface-active dispersant and barite; assigned to Dresser Industries, Inc., October 29, 1975; 8 pages.

British 1,412,211—In the manufacture of asbestos floor tile the coated, cured base sheet is cut while hot into individual tiles having a clear wear layer thereon; warp-causing stresses are relieved and the product is cooled more rapidly; P. S. Bettoli & A. G. Boranian; assigned to GAF Corporation, October 29, 1975; 11 pages.

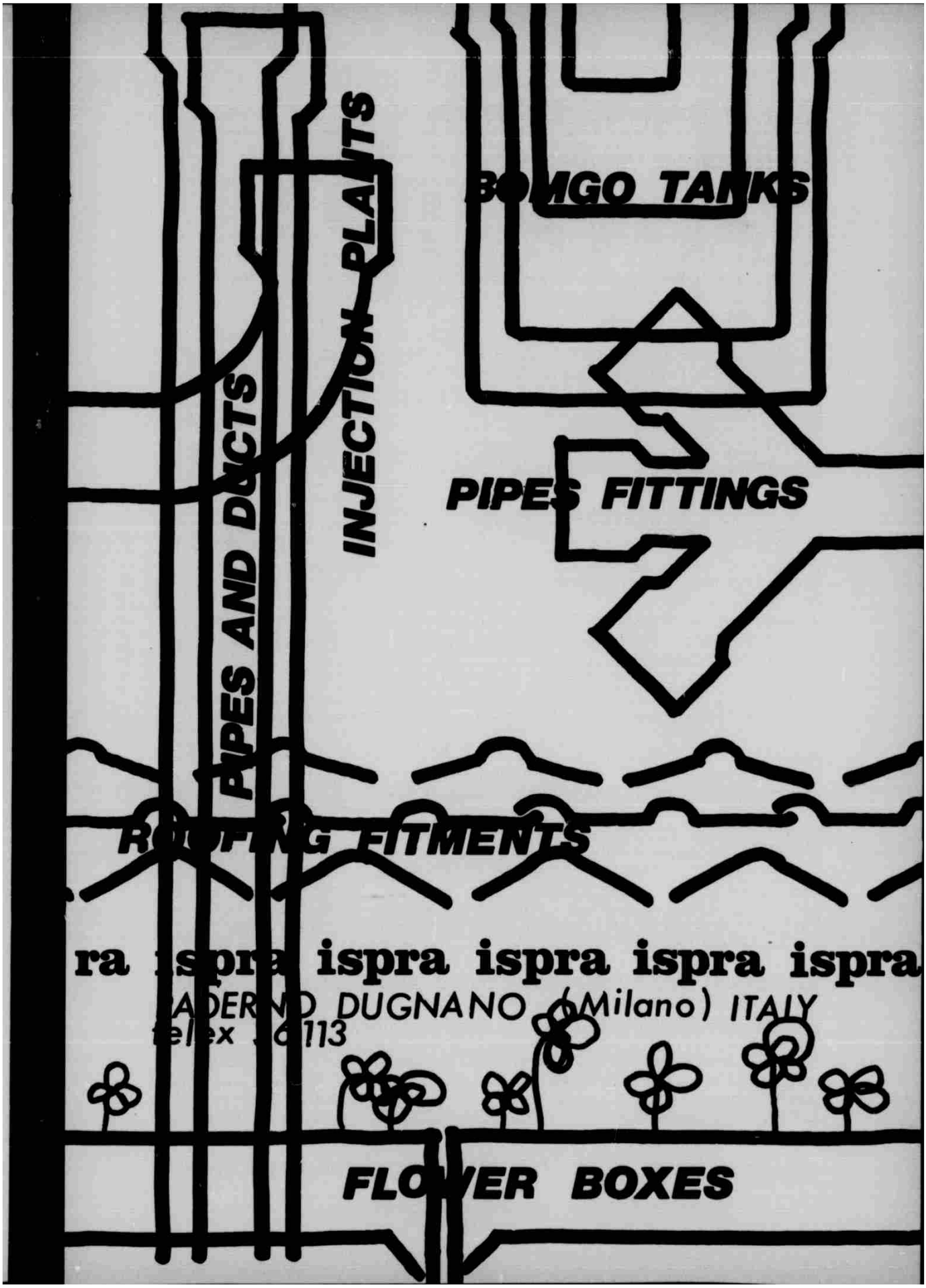
Czech 149,267—Welding electrodes are coated with a mixture of the usual finely-divided materials but including also 0.3-6% by weight of asbestos as reinforcement of the product after drying and 0.1-3% of sugar to improve the binding of the mixture; S. Horvath; June 15, 1973; 3 pages.

Japanese 73/7,262—Floor tiles having long-lasting, anti-static properties are fabricated from a mixture of 15% by weight of polyvinyl chloride, 6% of a primary plasticizer, 2% of a secondary plasticizer, 22% of asbestos, 1.7% of a pigment, 0.3% of a stabilizer, 10% of aluminum hydroxide and 43% of calcium carbonate; T. Yokoyama & M. Isuda; assigned to Toyo Linoleum Manufacturing Co. Ltd., March 3, 1973; 3 pages.

Japanese 73/20,892—In the production of asbestos yarn, Chrysotile asbestos is chemically opened to form a paste, the paste formed into a film on a support in the presence of an acid salt and the film peeled off the support and either slit or directly twisted; T. Otouma & K. Yamaguchi; assigned to Nippon Asbestos Co. Ltd., June 25, 1973; 4 pages.

Japanese Kokai 73/62,820—Method of fabricating embossed gypsum board from a thick aqueous paste of calcined gypsum, polyvinyl alcohol, asbestos, an amine resin pre-condensate and the usual inorganic additives; the surface of the board is sprayed with an aqueous solution of borax before being embossed; T. Sato, S. Fudamoto & M. Hata; assigned to Matsushita Electric Works Ltd., September 1, 1973; 4 pages.

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CALENDAR OF EVENTS

WESTERN METAL AND TOOL EXPOSITION AND CONFERENCE—Held by the American Society for Metals; Convention Center, Los Angeles, California; *March 8-11.*

CAPTURING THE SUN THROUGH BIOCONVERSION—Conference sponsored by the U.S. Energy Research & Development Administration plus several other organizations; Shoreham-Americana Hotel, Washington, D. C.; *March 10-12.*

ASSESSING SCIENCE AND TECHNOLOGY IN AMERICA—Distinguished lecture Series hosted by the U.S. National Bureau of Standards in honor of its 75th anniversary; NBS Red Auditorium, Main Administration Building, Gaithersburg, Maryland; *March 11, March 19, March 26 and April 2.*

ASTM CALL FOR PAPERS—Issued for a Symposium on the Fatigue of Composite Materials to be held in November 1976; abstracts and offer forms are due before *March 15.*

SME CALL FOR PAPERS—Issued for an International Symposium on Agglomeration to be held in March 1977 during the 106th Annual Meeting of the American Institute of Mining, Metallurgical and Petroleum Engineers; abstracts are due *March 15.*

CONSTRUCTION MARKETING SEMINAR—Created by the Marketing Research Committee of the Producers' Council, Inc.; Sheraton-National Hotel, Washington, D. C.; *March 17-19.*

AMERICAN SUBCONTRACTORS ASSOCIATION—10th Annual Convention; Hyatt-Regency Hotel, Atlanta, Georgia; *March 17-21.*

EFFECTIVE PRODUCTION PLANNING AND CONTROL AND INVENTORY MANAGEMENT—A Continuing Education Program; Drexel University, Philadelphia, Pennsylvania; *March 22-23.*

BUILDING PERFORMANCE, PROCUREMENT AND ECONOMICS—National Symposium jointly sponsored by the NBS Center for Building Technology and other Federal agencies; National Bureau of Standards, Gaithersburg, Maryland; *March 24-25.*

RESEARCH AND TECHNOLOGY—46th Annual Conference of the Textile Research Institute; Commodore Hotel, New York City, *March 24-25.*

INDUSTRIAL POLLUTION CONFERENCE AND EXPOSITION—Sponsored by the Water & Wastewater Equipment Manufacturers Association; Shamrock Hilton, Houston, Texas; *March 30-April 1.*

DESIGN ENGINEERING SHOW AND CONFERENCE—The Conference is sponsored by the American Society of Mechanical Engineers and the Show is produced by Clapp & Poliak, Inc.; McCormick Place, Chicago, Illinois; *April 5-8.*

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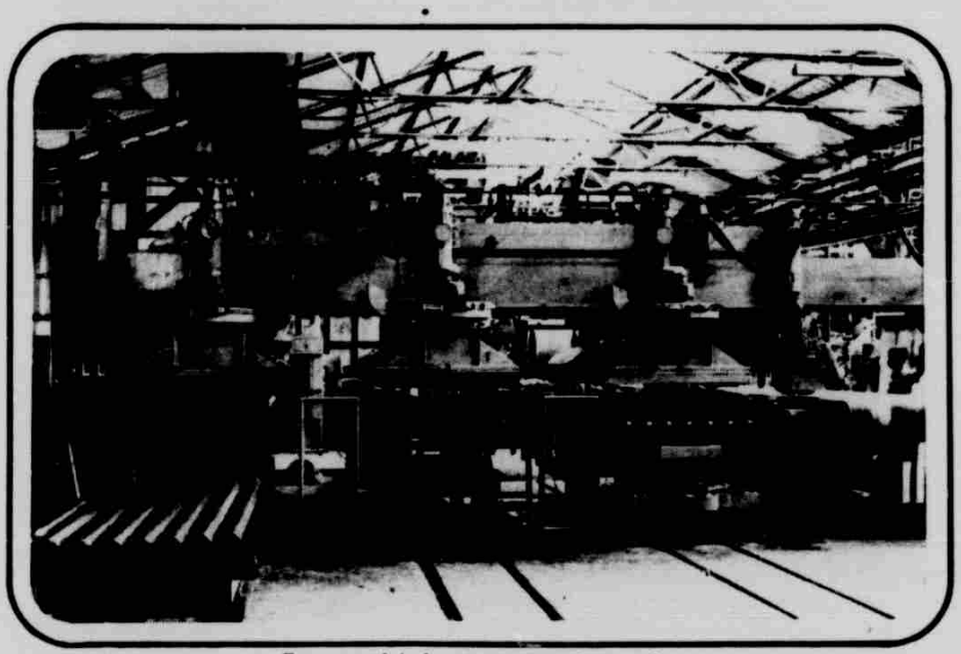
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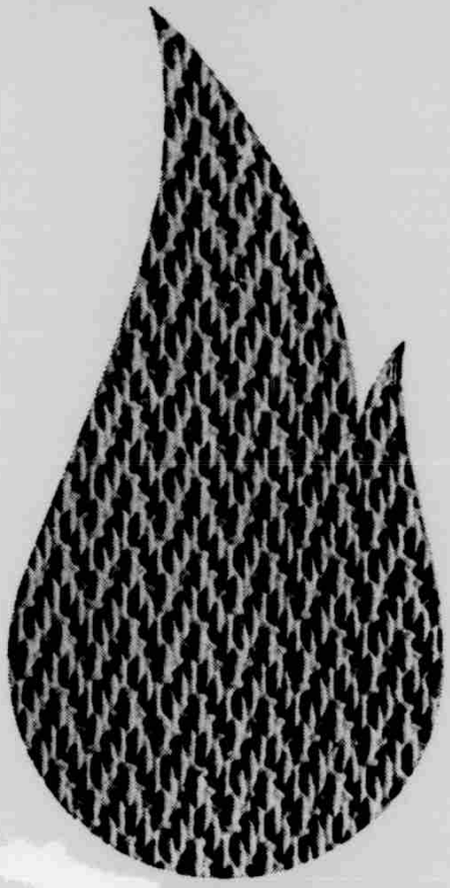


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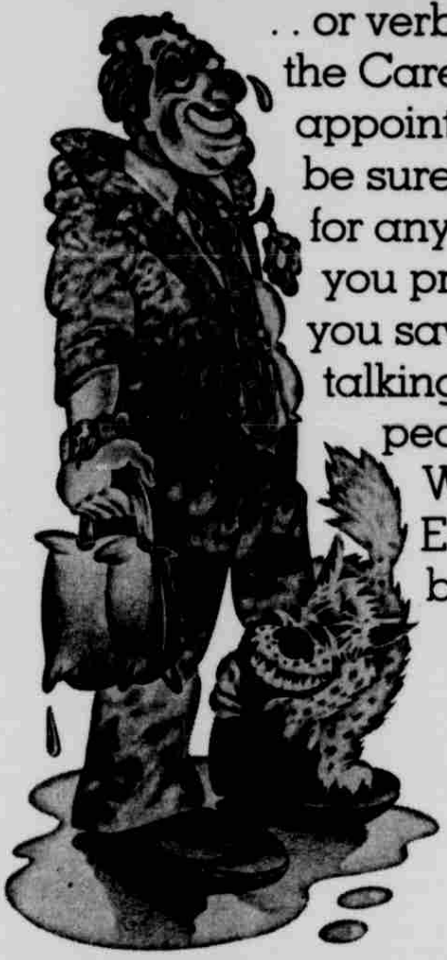
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