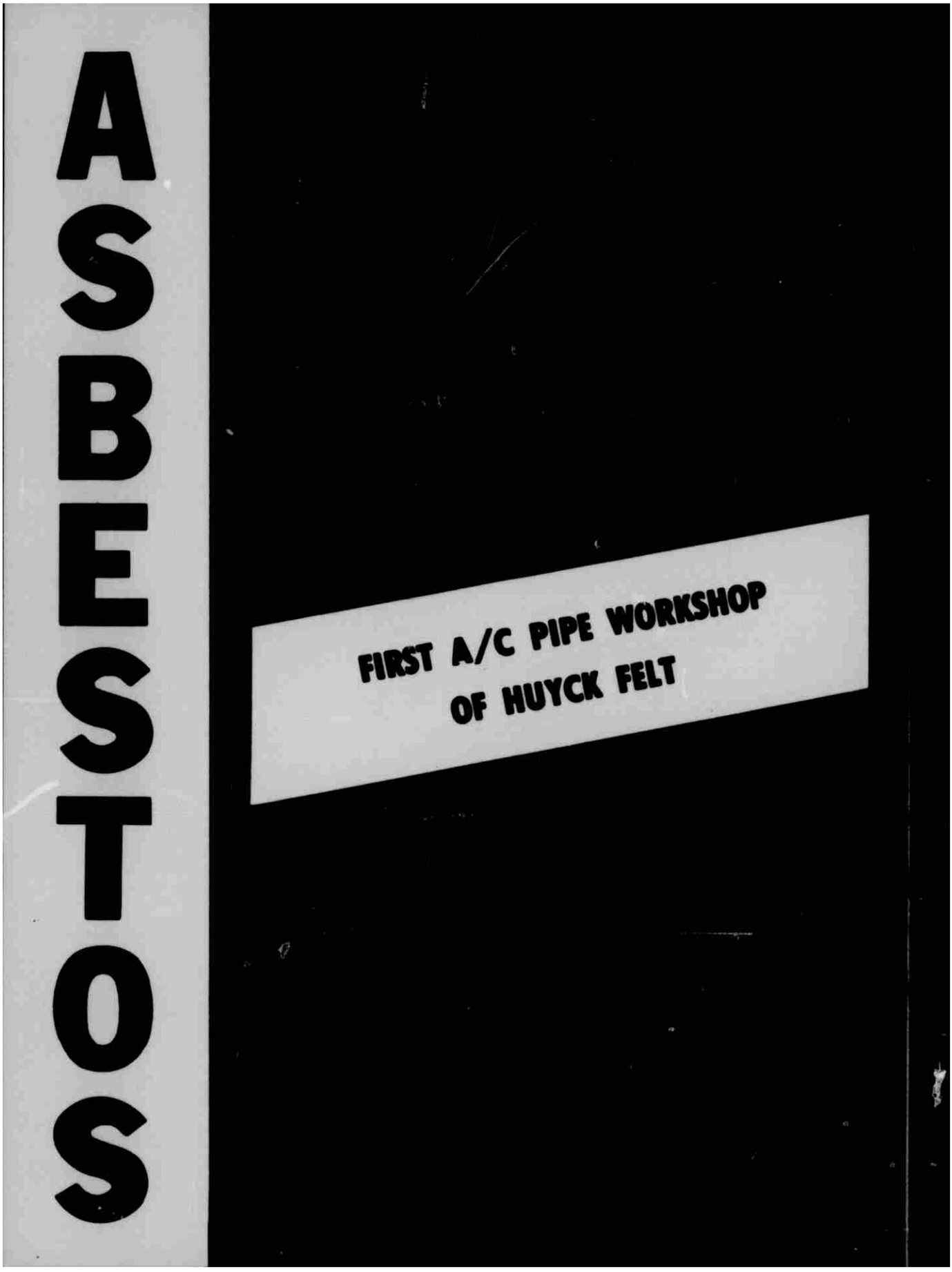
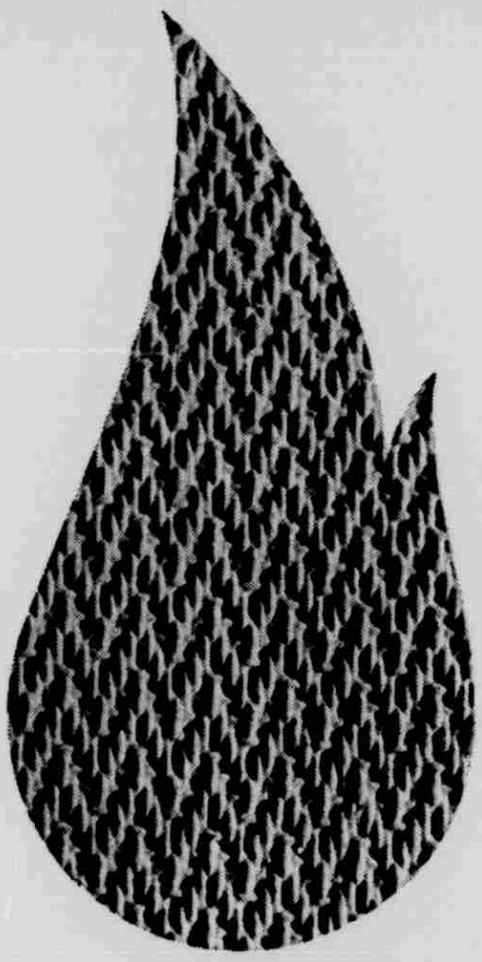


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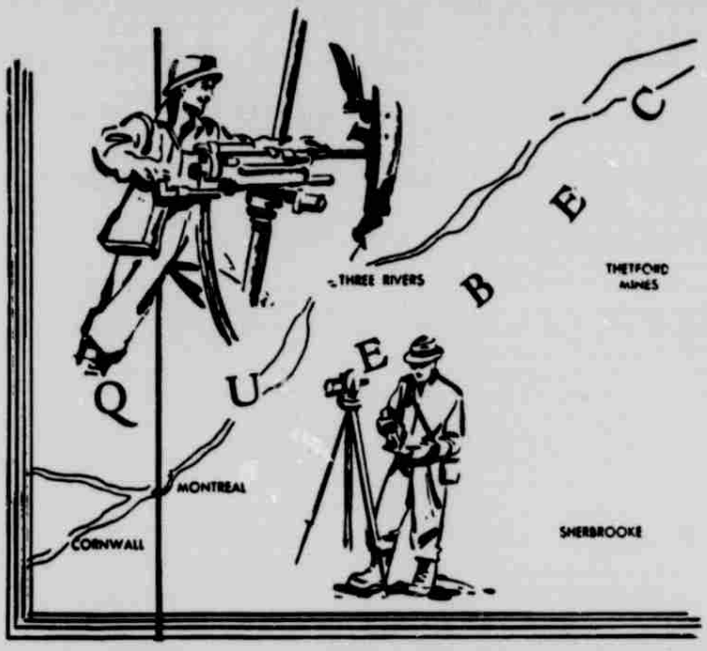


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ASBESTOS

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HUYCK FELT DIVISION
First A/C Pipe Workshop

By: R. A. Jensen

(Mr. Jensen is an Asbestos Cement Pipe Technical Service Engineer with Huyck Felt, Division of Huyck Corporation, Rensselaer, New York.)

Huyck Felt, Division of Huyck Corporation, hosted the industry's First Asbestos-Cement Pipe Manufacturers Workshop at Rensselaer, New York, April 17-18, 1975.

Over the years the Huyck Felt Workshop program has addressed itself to the needs of its customers, with over 1,700 people having participated in the informative and timely sessions. As a vehicle of communications, the program provides a method for customers to discuss both problems and opportunities with their clothing supplier and with fellow manufacturers.

The Asbestos-Cement Pipe Workshop was no exception to this tradition. A first for the industry, the program agenda covered numerous topics ranging from the design and manufacture of asbestos cement felts, to pipe machine operational problems. Presentations and discussions were conducted by Huyck Felt personnel on the following subjects.

TRADELINE & SEAM DISTORTION

Basic principles involved in felt guiding and control of tradeline distortion were reviewed. The two factors that influence tradeline configuration (speed and distance producing effects) were discussed, as were how these factors influence optimum bottom felt performance.

WHAT HAPPENS IN THE NIP

Huyck Felt has shown that the use of a piezoelectric crystal embedded in the top roll of a press section (analogous to the mandrel and anvil assembly) allows measurement of the

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pressure developed at each point in the nip as the crystal proceeds through this region. The interpretation of the resulting pressure gradient allows measurement of nip width, rubber roll deformation and shape of pressure gradient. The role that the felt plays in helping to control stock crushing at the area of the mandrel was discussed in some detail.

ASBESTOS-CEMENT PIPE FELTS

The evolution of asbestos-cement pipe felts was traced from initial woven constructions of cotton and wool, to woven constructions of low synthetic levels, to today's needled felts of various synthetic contents above 50%. The features of the advanced HUYMESH® felt designs, and their operational benefits, were reviewed.

HIGH-PRESSURE SHOWERS

A detailed presentation was made showing the effects of high-pressure shower operation on various asbestos-cement pipe felt constructions. Material gathered from an in-depth testing program (conducted exclusively for the Workshop) was used to compare felt samples which had been showered under various modes of shower operation, with an identical group of control felts showered under constant control conditions. General guidelines for effective high-pressure showering were presented.

MANUFACTURING TOUR

Workshop attendees were conducted on a tour of the Huyck Felt manufacturing facilities at Rensselaer. The tour included seeing asbestos-cement pipe bottom felts at various stages of completion throughout manufacturing, finishing and final inspection.

THE FUTURE

Comments by those who attended the Workshop indicated that Huyck Felt was very successful in making available material dealing with topics of prime interest—at a time when it could be of most benefit to their industry.

Huyck Felt will continue its Workshop programs in the future. An up-dated, topical Workshop for the asbestos-cement pipe market is currently being planned in an effort to satisfy customers' needs in a changing market.

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SOUTHERN'S "COLORFUL WORLD"

Its research and development experience has enabled Southern Asbestos Company, Charlotte, North Carolina, to offer a clean and colorful line of *Gardian* asbestos textiles which help the user comply with OSHA regulations and which require no health hazard label. The line of textiles, tapes, yarn, tubing and rope is made clean, flexible and easy-to-handle via a special combination blend which is impregnated into each product via Southern's *Cleangard* process. A colorful world of asbestos is made possible by the bright, highly-visible colors which have been added to the Gardian line for quick safety identification: *fiery orange Weldgard* for asbestos welding curtains and welder safety garments; *green Splashgard* to protect workers from molten metal, water, steam or dangerous sparks; *blue Flamegard* for fire protection in safety products such as mattress covers and smoker's bibs; *beige Covergard* for asbestos lagging (with the adhesive built-in); *white Insigard* insulating felt for high-temperature equipment; *black Soundgard* sound barrier for application directly to the source of noise or as an isolating curtain; and *silver Thermagard* asbestos cloth to warn workers that heat is being shielded. By using Gardian asbestos yarn, a manufacturer can put color in whatever he weaves to quickly identify his name, his products or the job the products are designed to do.

A/C HEAVY-DUTY WALLBOARD

James Hardie & Co. Pty. Ltd., a major building products maker in Australia, has released a decorative wallboard designed especially for heavy wear such as in reception areas and family recreation rooms. It can also be used as infill panels in exterior cladding work. The compressed asbestos-cement sheet, *Hardigrain,* is decorated on one side with a woodgrain pattern that requires no polish or other surface coating and is said to be twice as strong as traditional a/c wallboards of like thickness.

NEW ADHESIVE FOR TILES

A new adhesive for vinyl-asbestos floor tile is being made and marketed in South Africa. Called *Vyn-a-Paste,* it is said to be more economical and easier, cleaner and safer to use than conventional adhesives. Its buttery consistency facilitates spreading and does not alter with temperature changes. *Vyn-a-Paste* is a product of Isar-Rakoll, a large European adhesive manufacturer, and is made under license in South Africa by Adhesion Chemicals (Pty) Ltd., Johannesburg.

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LIQUIDATION

Sale of A/C Manufacturing Equipment from National Gypsum's Plant in Millington, New Jersey

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THRU THE ENVIRONMENTAL MAZE

AIA/NA MATTERS

The following literature is still available from the Asbestos Information Association/North America, 1660 L Street, Washington, D. C. 20036: Asbestos in the Atmosphere—A Hazard to Health? (15¢); What You Should Know About Asbestos and Health (15¢); and a six-poster series giving Asbestos Health Hints For The Workplace (40¢ each) . . . . For those of our readers who could not attend the 2nd Annual AIA/NA Industry-Government Conference, a report on that event will be printed in the next issue of ASBESTOS.

EPA PLANS & PROPOSALS

President Ford approved the addition of 300 new positions to strengthen the management and conduct of the sewage treatment grant program. It is estimated by the U.S. Environmental Protection Agency that the present program accounts for 125,000 jobs nationwide and is expected to grow to 200,000 jobs by the end of Fiscal Year 1977 . . . . EPA Administrator Russell E. Train approved recommendations of a special Task Force which will make important changes in the procedures for administering the $18-billion water pollution construction grant program. The changes are said to be necessary if EPA is to obligate the remaining $12.8-billion of the $18-billion authorized by Congress for use by September 1977 in building sewage treatment facilities. The report confirms earlier findings that manpower in the program at the regional level is inadequate . . . . An amendment effective August 20, 1975, to the Federal Procurement Regulations adds a new Subpart 1-1.23—Environmental Protection, prescribing policies and procedures for implementing the Clean Air Act, the Federal Water Pollution Control Act and related EPA regulations. Comments are invited during the 60-day period to October 20th.

OSHA HAPPENINGS

From its inception April 28, 1971, through June 1975 the U.S. Occupational Safety and Health Administration conducted 249,110 workplace inspections resulting in 173,946 citations alleging 901,299 violations and proposing penalties of $22,888,569 . . . . $29-million has been allocated to 21 states and one territory as the federal share (50%) of the cost of their

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OSHA-approved job safety and health programs for the Fiscal Year that began July 1, 1975 . . . . New rules issued by the U.S. Department of Labor permit states without OSHA-approved plans to enter into contracts with OSHA, on a 50-50 cost basis, under which state experts will visit employers' establishments at their request to advise on how to comply with OSHA standards. Top priority initially will be given to employers with small businesses and to those with particularly hazardous operations. (FR 5/20/75) . . . . 29 CFR Part 1910.184 has been changed by OSHA, effective July 28, 1975. The amendments cover the five major types of industrial slings used to lift material in general industry. (FR 6/27/75 & 7/28/75).

ASA TO APPEAL

Encouraged by the Third Circuit Court of Appeals' close, although adverse, 6-4 ruling in a second hearing of a test case challenging the constitutionality of OSHA '70, M. Stokes, general counsel for the American Subcontractors Association, announced the decision will be appealed to the U.S. Supreme Court. In arguing the case of *Frank Irey, Jr., Inc.* v. *The Occupational Safety and Health Review Commission,* Mr. Stokes stated the Court majority's recognition that "there is a line beyond which Congress may not transfer traditional remedies from the courts to administrative agencies" without affording a jury trial is a significant development. "As pointed out by the four dissenting judges, the majority's conclusion that this line has not been crossed—when the majority failed to define where the line falls—cannot be accepted," Mr. Stokes said.

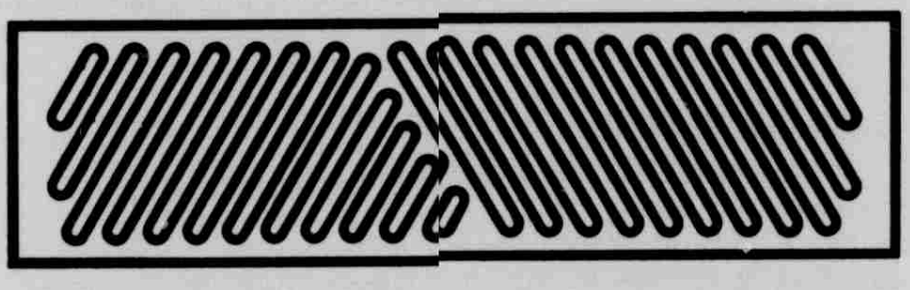
MT. SINAI REPORT

Residents of an entire household and neighbors in the same building where repair workers use commercial spackling, patching and joint compounds can inhale or otherwise be exposed to disease-producing levels of asbestos, according to environmental scientists at the Mount Sinai School of Medicine. It was urged that potentially toxic or hazardous materials be eliminated from the consumer products as soon as feasible. As an interim measure it was suggested that labels be required on packages clearly stating their content and providing instructions for how the user might minimize the asbestos hazard by protecting people in the work area with appropriate respirator gear. The doctors based their conclusions and recommendations on the mineral analysis of 15 representative samples of consumer spackling and patching compounds bought at hardware stores in New York City between 1972 and 1974.

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AIRPOL DUST COLLECTOR

Air Pollution Industries, Inc., Englewood, New Jersey, describes its high-efficiency, bag-filter, dust collector in a color brochure titled "Fabri-Cell Dust Collectors." Said to produce longer bag life and to minimize maintenance, the unique method has been used at processing operations where fine dust must be removed from exhaust gas. When fibrous dust such as asbestos is involved, the use of a classifier chamber in conjunction with the dust collector has proven effective in operation.

AQUADYNE SYSTEM

Aquadyne, a division of Motomco, Inc., Clark, New Jersey, announced a custom-engineered, wet-water system that suppresses primary and fugitive dust where and when it originates by utilizing a series of small-capacity spray nozzles placed and sequenced at the source points of dust emission. All elements of the system are fully-engineered including specifications as to water requirements and pressure, nozzle-sizing and placement, and custom-built electronic controls.

HARSHAW PROCESS

Powdery materials become essentially dustless when treated with a process developed by *The Harshaw Chemical Company, a division of Kewanee Oil Company*, Cleveland, Ohio. The process is unique in that it neither coats the product, nor adds reactive materials, nor generally changes the physical or chemical properties of the treated material. The technology offers a way to make saleable products out of materials which previously had to be discarded as unusable fines. Limited work has led Harshaw to conclude that the process does decrease the dustiness of asbestos. According to a spokesman for Harshaw, the system has been studied by asbestos producers and processors.

PEABODY SERVICES

"Total Environmental and Combustion Project Contracting" is the title of a brochure issued by *Peabody Engineering Corporation*, Stamford, Connecticut, to outline its capabilities and experience in environmental and combustion project contracting and turnkey systems. Services defined in the literature are air pollution control, industrial and utility fuel conversions, industrial boiler plant construction, commercial heating, mobile/emergency boilers and marine tanker inerting systems. Also covered are system design and engineering, project management, fabrication and construction, start-up and training.

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ASBESTOS R & D

The Ontario Research Foundation has provided services to the asbestos industry on a fee or contract basis for the past 12 years. These services include:

- testing and evaluation of asbestos fibers at any stage of milling or processing;
- research and development on asbestos products such as asbestos cement, composites, textiles;
- environmental impact studies and industrial hygiene surveys of mines, mills and plants.

ONTARIO RESEARCH FOUNDATION
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ONTARIO RESEARCH

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MARKET CONDITIONS

GENERAL BUSINESS

Based on available economic data there is almost unanimous opinion that the recession has ended and recovery has begun. While there has been no pronounced upsurge in general business activity, and the recovery so far has been rather shaky, the downtrends in most industries have terminated and there seems no way to go from here but up.

As might be expected, due to tax rebates, Social Security bonuses and other increases in personal income, consumers are spending more freely and retail sales are moving up at a fairly healthy rate. Thus far this apparent renewal of consumer confidence has not resulted in improved new car sales. Much of the hesitancy can be attributed to the high cost of new cars and higher prices are a certainty for the 1976 models. In addition, there is a feeling that the 1977 models will incorporate many desirable changes making them more economical in first cost and in fuel consumption. Working on this assumption many users will try to "make do" with their present cars for another year. This presages a continuing low level of new car sales for some time to come.

Housing is another key area where high prices are acting as a deterrent to sales. Even though mortgage money may be plentiful at fairly reasonable rates, the high costs of houses result in monthly charges for interest and amortization which are beyond the reach of many prospective buyers. Thus a strong recovery in this industry seems unlikely for the immediate future, although the rate of housing starts showed a strong increase in July as did the number of housing permits issued.

Interest rates have been moving up recently and in mid-August the prime rate at many banks stood at 7¾%. Likewise both retail and wholesale prices have been pushing upward over the past few months, renewing fears of high-level inflation. These coincident developments, coupled with the usual mid-summer lull in activity, have resulted in a drifting stock market with a distinct downward bias.

Congress and the President have yet to agree on a national energy policy and their views on the correct course to follow remain widely divergent. Considering the fact that the energy problem is the most serious one facing this nation today, it is nothing short of a national disgrace that our elected officials have been unable or unwilling to come to grips with the problem

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and at least make a start toward solving it. Two years is much too long to dawdle over a problem that calls for quick and firm remedial action.

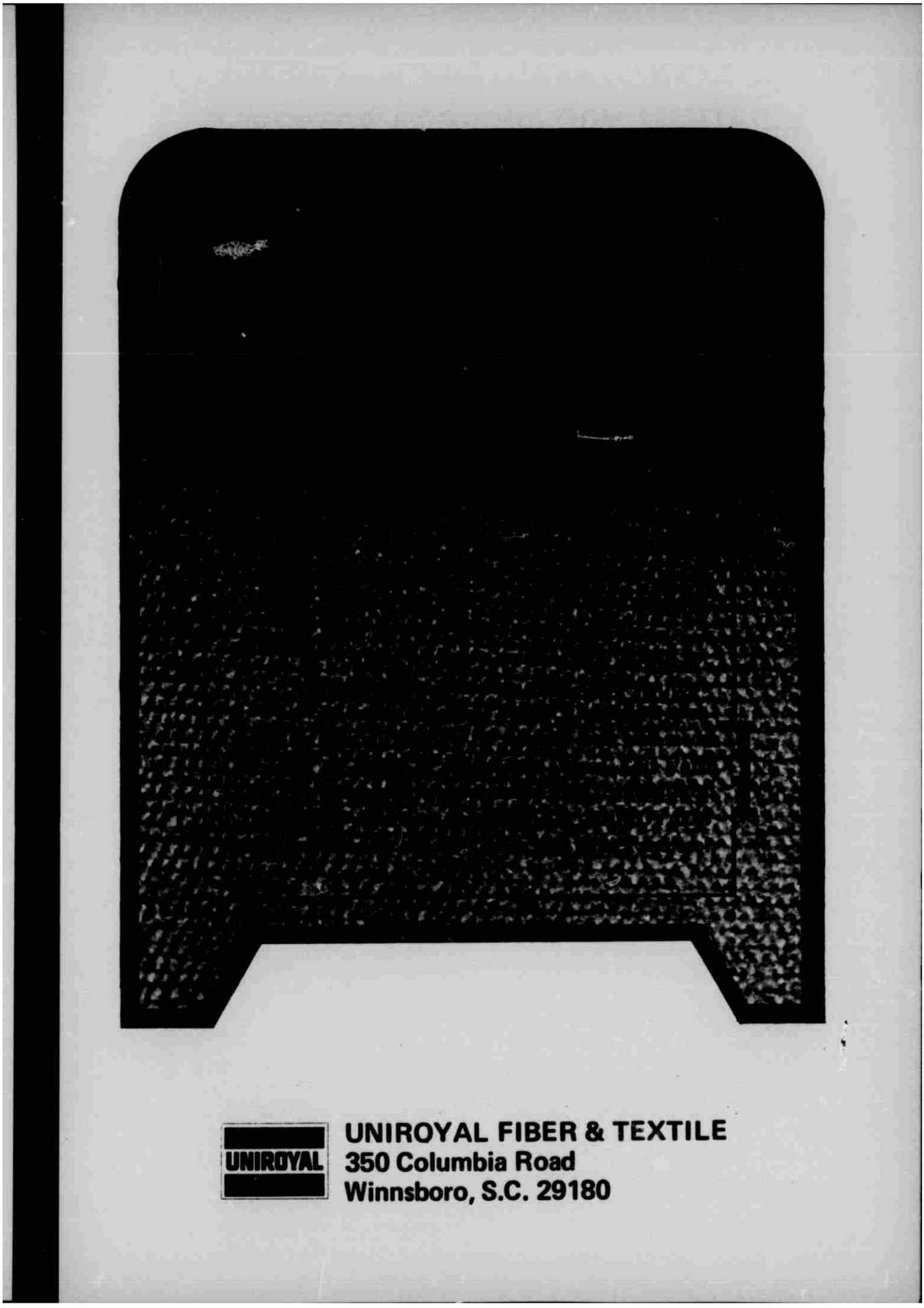
CONSTRUCTION CONTRACTS

For the First Half of 1975, contracts for future construction totaled $44.4-billion, just 4% below the same period in 1974. The seasonally-adjusted Dodge Index of total construction (1967 = 100) averaged 182 in the second quarter, a 29% gain over the depressed average of 141 for the first three months. More importantly it marks the end of a six-quarter decline in construction contract total values. . . . *Nonresidential* contracts came to $15.7-billion, a 2% decrease from last year. Strong gains in contracting for schools, hospitals and public buildings were noted during the month of June. . . . *Residential* construction contracts totaled $14.6-billion, off 23% from a year ago. While single-family housing has caught up to and surpassed its year-ago level (due to improved mortgage availability), it is apartment construction (still only half its 1974 level) that is responsible for the sluggish recovery in the housing industry. . . . *Nonbuilding*—After a weak first quarter, contracting for highways and sewers showed substantial pick-up during the latest three months. Now that the federal government has waived state payments of matching funds for highways and sewer projects, more and more states have started to make use of the federal public works appropriations released earlier this year by the Ford Administration for such projects. For the first half of 1975, the nonbuilding total was $14.1-billion, up 24% compared to the first six months of 1974. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

MOTOR VEHICLE FACTORY SALES

Motor vehicle factory sales from plants in the *United States* totaled 4,188,004 during the *First Half of 1975*, 1,136,852 less than during the initial six months of 1974. The breakdown for the latest period is 3,125,837 passenger cars (down 729,543) and 1,062,167 trucks and buses (down 407,309). . . . Factory sales from plants in *Canada* totaled 730,836 in January-June 1975 against 868,317 for the like 1974 period. [Motor Vehicle Manufacturers Association of the U.S., Inc.]

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:		MAY 1975	
Amosite, South Africa	s.tons	544	$ 211,583
Crocidolite (Blue), South Africa	s.tons	393	210,734
Chrysotile, Crudes, Canada	s.tons	51	7,387
Rhodesia	s.tons	200	185,536
Chrysotile, Spinning Fibers, Canada	s.tons	360	366,012
Chrysotile, Other, Canada	s.tons	39,517	6,948,899
Mexico	s.tons	6	1,230
Other Crudes & Fibers, Canada	s.tons	144	14,257
Finland	s.tons	64	7,016
Rhodesia	s.tons	321	268,183
South Africa	s.tons	34	9,130
		41,634	$ 8,229,967
Manufactured Asbestos Products:			
Asbestos yarn, cloth, tape, etc.	Lb	744,658	$ 1,190,569
A-C pipes, tubes & fittings	Lb	944,157	102,197
Other a-c articles	Lb	1,610,744	279,367
Other asbestos articles		..	678,082
			$ 2,250,215

Unmanufactured Asbestos:		JANUARY-MAY 1975	
Amosite, South Africa	s.tons	2,816	$ 1,071,798
Crocidolite (Blue), South Africa	s.tons	4,343	1,695,724
Chrysotile, Crudes, Canada	s.tons	51	7,387
Rhodesia	s.tons	899	797,970
South Africa	s.tons	625	310,524
Swaziland	s.tons	2,756	952,544
United Kingdom	s.tons	277	82,982
USSR	s.tons	2,223	512,860
Chrysotile, Spinning Fibers, Canada	s.tons	3,998	2,743,770
Rhodesia	s.tons	20	19,110
Chrysotile, Other, Canada	s.tons	203,996	39.625,875
Gaza Strip	s.tons	152	25,914
Mexico	s.tons	39	7,907
Rhodesia	s.tons	32	22,871
Other Crudes & Fibers, Canada	s.tons	2,166	392,802
Finland	s.tons	184	17,759
Italy	s.tons	1	4,550
Rhodesia	s.tons	421	303,271
South Africa	s.tons	122	34,378
		225,121	$48,629,996

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4-5 Akasaka 2-Chome, Minato-Ku,
Tokyo 107

KOREA
Bookuk Asbestos Company, Ltd.,
K.1.P.O. Box 1101, Seoul

NETHERLANDS
Th. J. Verwaaijen & Co. N.V.
Graafstroomstraat 51, Rotterdam-8

NORWAY
Beijer (Oslo) A/S,
Drammensvn, 840, 1370 Asker

PORTUGAL
Mundial Export Corporation,
500 Fifth Ave.,
New York, N.Y., 10036, U.S.A.

SPAIN
Ceamconsult S.A.
Juan Ramon Jimenez, 47, Madrid 16

SOUTH VIETNAM, HONG KONG, INDONESIA, MALAYSIA, CAMBODIA, EAST PAKISTAN AND SINGAPORE
International Import-Export Ltd.,
G.P.O. Box 2584, Singapore

SWEDEN
Beijer Kemikalie AB,
Bjurogatan 43, S-211 24, Malmo

TAIWAN
Yah Sheng Chong Yung Kee Co. Ltd.,
198 Nanking East Road,
Section 2, Taipei

UNITED KINGDOM
A.A. Brazier & Co. (Asbestos) Ltd.,
Newby House,
309 Chase Road, London N. 14, 6 JE.

VENEZUELA
Importquim, S.A.
Apartado 61,649, Caracas

WEST PAKISTAN, INDIA AND AFGHANISTAN
G. Williams & Co., Private Ltd.,
1/1 Kimber St., Calcutta 17, India

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U.S. IMPORTS—CONTINUED

Manufactured Asbestos Products:

Asbestos yarn, cloth, tape, etc.	Lb	4,203,761	$ 5,400,676
A-C pipes, tubes & fittings	Lb	6,506,532	631,315
Other a-c articles	Lb	23,445,351	3,219,071
Other asbestos articles		..	2,439,219
			$11,690,281

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 76,709 short tons in *May 1975* and 72,627 tons in *June 1975*. Cumulative total shipments for *January-June 1975*, at 543,345 tons, were down 38.69% from the 886,292 tons reported for the first half of 1974. The breakdown for the 1975 six-month period is 410,245 tons from Quebec plants (down 45.95%) and 133,100 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon (up 4.57%). [Statistics Canada, Ottawa]

ASBESTOS DISTRIBUTION—1974
By End Use, Grade & Type

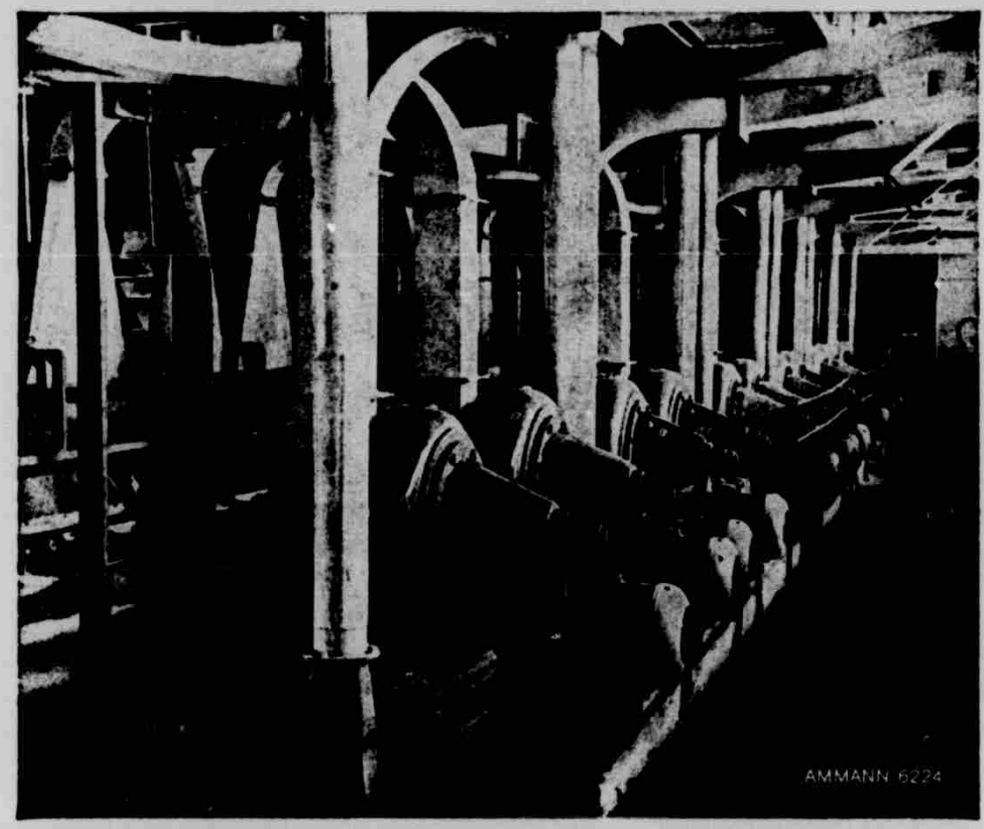
[Presented August 18, 1975, at the Third International Conference on the Chemistry and Physics of Asbestos Minerals, Quebec, by Robert A. Clifton, Division of Nonmetallic Minerals, U.S. Bureau of Mines. A breakdown of the distribution of Chrysotile, by Grade, is available from either Mr. Clifton or this Magazine.]

Short Tons (Includes Reductions in the Stockpile)

	Chrysotile	Crocidolite	Amosite	Anthophyllite	Total
Asbestos-Cement Pipe	185,200	36,400	1,100	200	222,900
Asbestos-Cement Sheet	90,500	..	4,300	..	94,800
Flooring Products	153,500	..	..	..	153,500
Roofing Products	73,800	..	1,700	..	75,500
Packing & Gaskets	28,700	100	..	..	28,800
Thermal Insulation	7,300	..	1,800	..	9,100
Elec. Insulation	4,700	..	..	..	4,700
Friction Materials	79,600	..	..	200	79,800
Coatings & Compounds	37,900	..	..	..	37,900
Plastics	16,900	200	..	700	17,800
Textiles	20,400	..	..	..	20,400
Paper	63,100	200	..	..	63,300
Other	36,400	400	500	..	37,300
Totals	798,000	37,300	9,400	1,100	845,800

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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 Asbestos Mines of the whole world.

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

U. AMMANN Ltd.

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

Cables: Ammannag Langenthal — Telex: Nr. 68446

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EXPORTS FROM THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:			MAY 1975
Fibers not further processed than beaten, washed or graded to length	s.tons	683	$ 216,529
Waste and refuse	s.tons	1,368	268,777
		2,051	$ 485,303
Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	2,434,280	$ 414,138
Other a-c fiber-cement articles	Lb	1,796,700	448,485
Gaskets	Lb	50,523	180,069
Packing	Lb	308,746	928,512
Heat or sound insulation		..	533,755
Textiles & yarns	Lb	547,130	548,074
Protective clothing		..	65,208
Mfrs. other than friction materials		..	1,304,382
Clutch facings & linings for auto. use	No	31,976	41,297
Other clutch facings & linings	No	36,390	27,567
Brake linings for automotive use	Lb	677,264	561,769
Other brake linings	Lb	179,435	357,022
			$ 5,410,278

Unmanufactured Asbestos:			JANUARY-MAY 1975
Fibers not further processed than beaten, washed or graded to length	s.tons	6,122	$ 2,739,895
Waste and refuse	s.tons	6,452	1,514,132
		12,574	$ 4,254,027
Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	10,440,641	$ 1,665,990
Other a-c fiber-cement articles	Lb	22,479,505	3,963,625
Gaskets	Lb	258,683	900,204
Packing	Lb	2,078,668	5,123,856
Heat or sound insulation		..	2,216,649
Textiles & yarns	Lb	3,711,494	2,916,023
Protective clothing		..	216,717
Mfrs. other than friction materials		..	4,727,802
Clutch facings & linings for auto. use	No	408,005	661,914
Other clutch facings & linings	No	388,895	198,962
Brake linings for automotive use	Lb	2,970,202	2,717,567
Other brake linings	Lb	895,655	1,316,407
			$26,625,716

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If we stick our hands into your business

. . . we may be able to improve your asbestos fibre handling, conveying, processing, or safety.

Our Mining and Milling Departments specialize in all aspects of asbestos. They helped develop and refine many of today's techniques of processing asbestos fibre. They also assisted in the design of equipment for modern processing.

Our asbestos experts are always ready to share their know-how with you. Write or call Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Or get in touch with the sales representative in your area.

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Jensen-Souders Associates, Inc.
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Holanda Colombia, S.A.—Bogota

MEXICO
Asarco Mexicana, S.A.—Mexico City

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EXPORTS FROM CANADA

FROM: STATISTICS CANADA

MAY 1975

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	54	352	10,784	4,979
Eastern Europe	. .	. .	780	. .
Middle East	. .	. .	399	317
Africa	. .	. .	. .	80
Asia	2	18	8,083	2,270
Oceania	. .	. .	2,568	360
So. & Cen. America & Antilles	. .	. .	5,875	1,980
United States	. .	273	11,341	28,758
	56	643	39,830	38,744

The total amount of unmanufactured asbestos exported in *May 1975* was 79,273 short tons, valued at $19,244,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 293,000
Asbestos brake linings & facings	262,000
Asbestos-Cement building materials	789,000
Other basic asbestos products	366,000
	$ 1,710,000

JANUARY-MAY 1975

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	54	4,566	81,532	58,440
Eastern Europe	. .	430	6,451	1,069
Middle East	. .	40	5,812	2,366
Africa	. .	. .	4,330	359
Asia	45	530	28,469	37,367
Oceania	. .	11	12,382	1,603
So. & Cen. America & Antilles	. .	1,133	34,428	16,820
United States	1	3,377	74,203	132,290
	100	10,087	247,607	250,314

The total amount of unmanufactured asbestos exported in *January-May 1975* was 508,108 short tons, valued at $122,717,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 1,274,000
Asbestos brake linings & facings	1,224,000
Asbestos-Cement building materials	2,505,000
Other basic asbestos products	1,498,000
	$ 6,501,000

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BAZZI

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

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

— Production of special sheets up to 9 mt length.

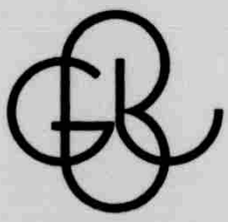
— Auxiliary machines for special sheet profiles.

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

— Special plants for preparation of wet and dry Asbestos.

— Machines for finishing pipes.

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



Officine Meccaniche

BAZZI G. & L. s.n.c.

Corso Indipendenza n. 33
Telefono (0142) 72444
Telex 22114 BAZZI I
15033 CASALE MONFERRATO (Italia)

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 January 1, 1975 *Canadian Dollars*

No. 1—Crude	$ . . $2842.00
No. 2—Crude	. . 1544.00
No. 3—Spinning Fiber	685.00— 1190.00
No. 4—Asbestos Cement Fiber	380.00— 675.00
No. 5—Paper Fiber	255.00— 340.00
No. 6—Paper and Shingle Fiber	186.00— 211.00
No. 7—Shorts	77.00— 171.00

CASSIAR *Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of August 1, 1975 *Canadian Dollars*

Cassiar Mine

C-1	$2916.00
AAA Grade—Nonferrous Spinning Fiber/Canadian Group 3	1685.00
AA Grade—Nonferrous Spinning Fiber/Canadian Group 3	1340.00
A Grade—Nonferrous Spinning Fiber/Canadian Group 3	1020.00
AC Grade—Nonferrous Spinning Fiber/Canadian Group 3	735.00
AK Grade—Asbestos Cement Fiber/Canadian Group 4	524.00
AS Grade—Asbestos Cement Fiber/Canadian Group 4	454.00
AX Grade—Asbestos Cement Fiber/Canadian Group 5	416.00
AY Grade—Asbestos Cement Fiber/Canadian Group 5	292.00
AZ Grade—Asbestos Cement Fiber/Canadian Group 6	216.00

Clinton Mine

CP Grade—Asbestos Cement Fiber/Canadian Group 4	492.00
CT Grade—Asbestos Cement Fiber/Canadian Group 4	445.00
CY Grade—Asbestos Cement Fiber/Canadian Group 5	292.00
CZ Grade—Asbestos Cement Fiber/Canadian Group 6	216.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of June 16, 1975 *U.S. Dollars*

Grades 4A thru 4T—Fiber	$360.00—$ 608.00
Grades 5D thru 5R—Fiber	238.00— 280.00
Grade 6D—Waste	. . 173.00
Grades 7D thru 7T—Shorts	77.00— 150.00
Grade 7TF—Floats (Shorts)	. . 66.00
Grade 8S—Shorts	. . 53.00
Hooker No. 1—packaged in 50-lb. woven poly. bags	850.00
Hooker No. 2—packaged in 100-lb. woven poly. bags	425.00

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We've served the worldwide asbestos industry for 30 years

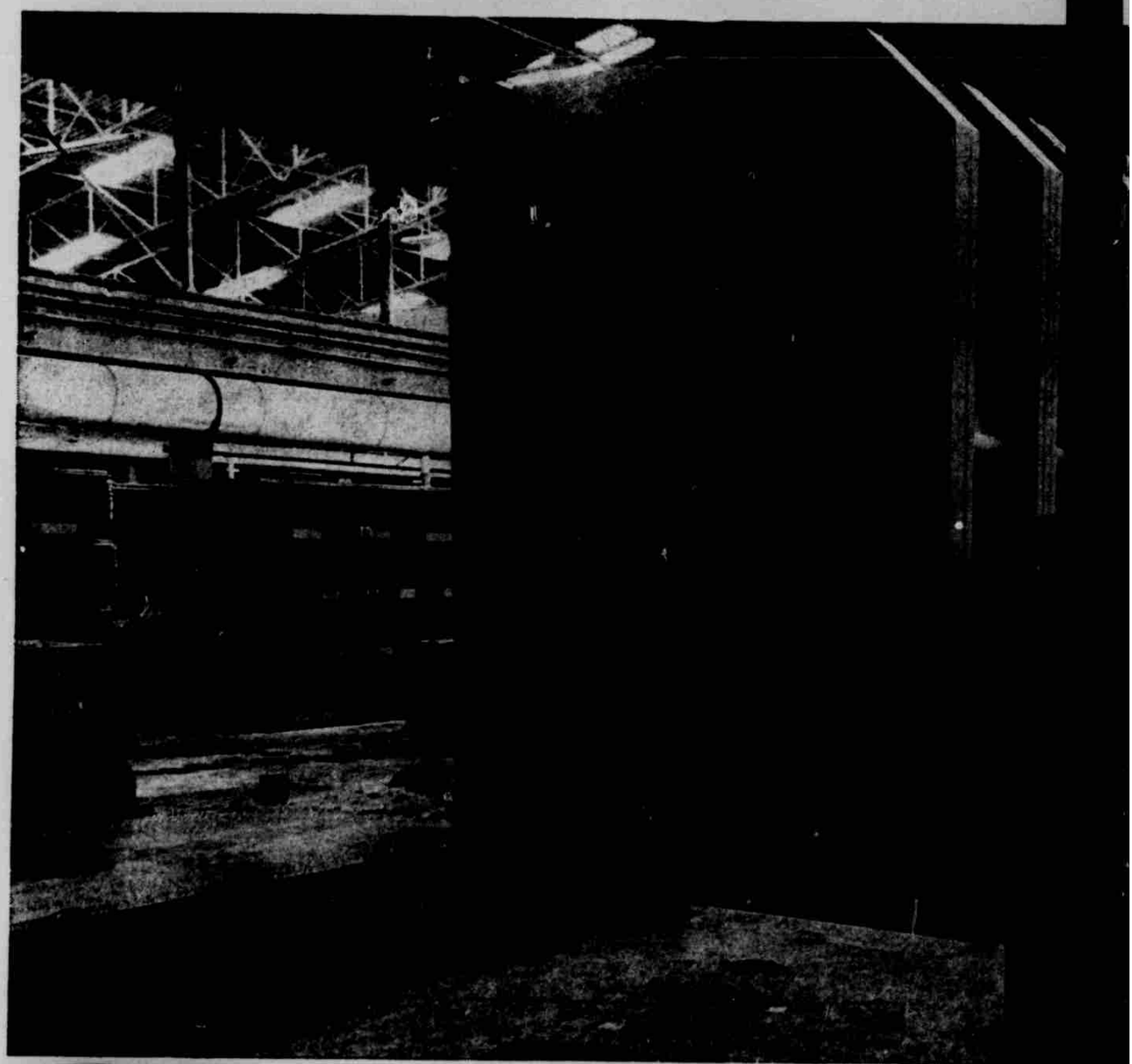


In fact we've grown up with the asbestos industry. In Canada first and then in Africa, Australia, Bolivia, Germany, Greece, Mexico, Turkey and Yugoslavia.
Few consulting firms can match our years of experience, our track record for successful projects.
Just to name a few: Johns-Manville's mill in Asbestos, Advocate's Baie Verte mill in Newfoundland, Carey Canadian's East Broughton plant, the Msauli mill in Barberton, South Africa, Asbestos Corporation's plant in Nordenham, West Germany and United Asbestos in Midlothian Township, Ontario.
From feasibility studies through engineering design, to full project management, we know asbestos.
Consult the firm that knows.

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Our Program
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Industry

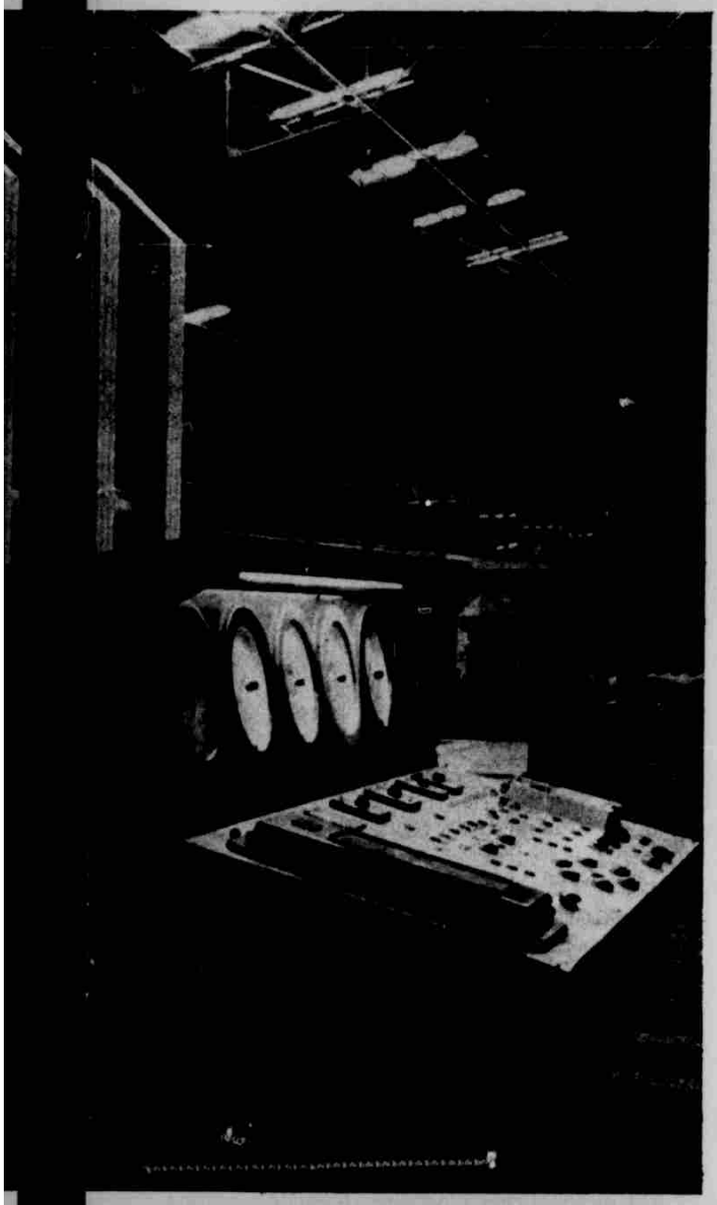
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12 000 tons press for the production of asbestos-cement sheets size of finished sheets: 1600 x 4000 mm

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THE MINING SCENE

QUEBEC STRIKE LINGERS ON

Up to press time, we have heard nothing to indicate that a strike settlement is in the offing between the asbestos workers at Thetford Mines, Quebec, and their five employers. The *Asbestos Bulletin*, printed in Guildford, England, by Astex Publishing Company, expressed the hope that a satisfactory solution to the dispute will soon be found as the strike is affecting the employment situation in many branches of modern industry outside Canada. Numerous plants are being compelled to adopt shorter work-weeks and, in some instances, have temporarily ceased production altogether.

Another interesting observation noted in the *Asbestos Bulletin* is that the effect of the world shortage of asbestos, coupled with the vast expenses incurred in complying with environmental standards and legislation, will result in the permanent closure of some plants, especially those that use short asbestos fibers and floats as a filler in various materials. It was further stated that non-toxic silicon, dust-washed mineral wool and glass fibers are being evaluated and may eventually replace asbestos in some applications.

A wire issued by *Reuter's* on August 20 reported that the Provincial Minister of Natural Resources believes that based on current rates of growth in demand, Quebec's asbestos supply is sufficient to handle traditional export markets for the next 40 years. He said the main problems are penetration of specialized markets, transportation costs and industrial health.

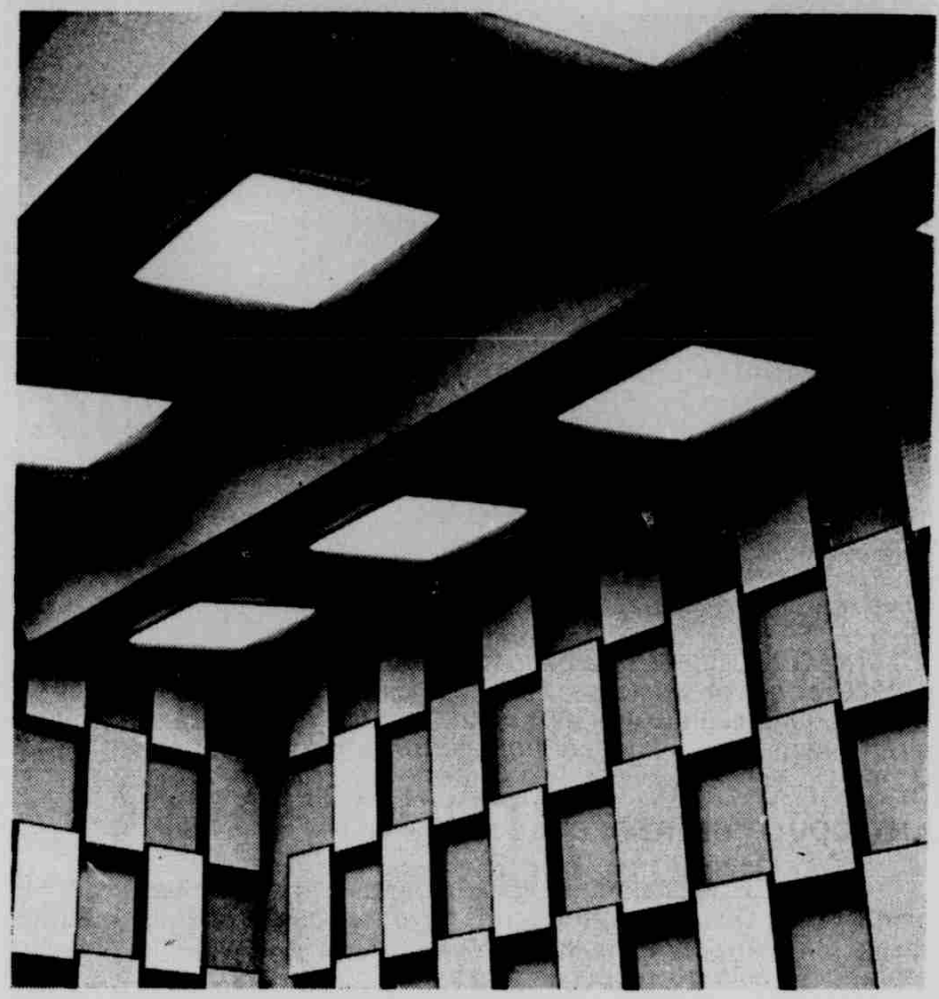
NEW EQUIPMENT AT CASSIAR

A new primary concentrator and aerial tramline are expected to effect substantial improvement in operations at the Cassiar Mine of *Cassiar Asbestos Corporation Ltd.* The 15,370-foot-long tramline, which has a 2,130-foot vertical drop, can feed the concentrator at an approximate hourly rate of 300 tons. It will automatically load and discharge while moving, acting much the same as a conveyor belt. The concentrator will permit the rejection of up to 30% of the waste from the ore before the treatment process. The operation is located in northern British Columbia, 100 miles south of Watson Lake, in the Yukon Territory. According to Marcel De Rouin, Mine Manager, ore extends beneath the horizon of the open-pit and there is a possibility of operating underground in years to come. [*The Northern Miner*]

DRILLING IN QUEBEC

Consolidated Midvale Explorations Ltd. completed a drilling program at its asbestos-bearing property at Tring Junction, Beauce Township, Northwest Quebec. A total of 1,003 lineal feet of drilling was done at four holes. There were no indications of asbestos fiber content in Hole No. 1. Work was abandoned on Hole No. 2 when it became apparent the

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Fire resistant, acoustic ceiling and wall panels containing amosite asbestos are used in the NHK Radio & Television Centre, Tokyo.

Cape Asbestos Fibres Ltd.
Iver Lane
Cowley, Uxbridge
Middlesex, England
Telex: 23471/UXB

N.American Asbestos Corp.
Suite 2950
150 N. Wacker Drive
Chicago, Illinois 60606
Telephone: (312) 726 8515

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peridotite dyke had taken a near-vertical dip attitude locally. Drilling at Hole No. 3 visually showed several narrow zones of good quality, cross-fiber asbestos. Several narrow zones of cross-fiber were also found in Hole No. 4. Samples from Holes 3 and 4 have been taken to the Quebec Department of Natural Resources for pilot plant testing.

BUSINESS BOOM IN VERMONT

Because of a sense of personal pride by the new worker-owners at the Vermont Asbestos Mine at Lowell, formerly owned by GAF Corporation, equipment repair costs have dropped dramatically, production has been at maximum rate and costs are declining rapidly. A rather stable labor situation exists since not only are the employees also the stockholders but seven members of the local union, including two officers, sit on the Board of Directors of the new company—*Vermont Asbestos Group, Inc.* The Directors include a shovel operator, a mechanic, a yard man, a warehouseman, two ore testers and a shift mechanic. News reports confirm that VAG has netted over $500,000 in just five months and expects to break the $1-million mark before March 1976.

The Group hopes to expand its operation by finding more uses for the 2,300 acres of waste rock tailings now covering the side of Mt. Belvedere. One such use is as a road surface, an application which is receiving some consideration from surrounding communities.

PLANT COULD BE REOPENED?

California legislators, engineers and representatives from the Regional Water Quality Control Board have expressed optimism that the asbestos plant at Copperopolis, formerly operated by *Pacific Asbestos Corporation*, could be reopened and operate without causing a water pollution problem. The $5-million operation was closed in April 1974. It was reported in the Stockton, California, *Record* that two firms are considering leasing the plant and a foreign company is interested in buying and operating the installation—but all are wary of the cost of meeting state and federal water quality standards. An engineering firm has been employed to study the situation and suggest a way to overcome the pollution problem.

SPECIAL PACKAGING

Special Asbestos Co., Inc., Milwaukee, Wisconsin, is offering in the United States Blue asbestos fiber via a newly-developed baling operation which reduces to almost one-half the cubic feet per ton. This makes the use of containers more economical and saves storage space on ships. Special Asbestos handles 18 standard grades of Crocidolite as the sole agent in the U.S. for *Central Asbestos Co. Ltd.*, London, England, a wholly-owned subsidiary of *GEFCO*, Kuruman, Cape Province, Republic of South Africa.

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ANNUAL REPORTS, 1974

GAF CORPORATION

GAF Corporation reported record sales, income and earnings per share for the year 1974. Net income was $32.5-million on sales of $948.8-million compared with 1973 income of $28.9-million on sales of $848.9-million. Primary earnings per share were $2.13 as against $1.85 for the previous year. Fully diluted earnings per share were $1.84 versus $1.58. Record sales for 1974 were achieved in all three of GAF's world-wide product sales groups—Chemicals, Photo & Repro, and Building Materials.

GAF's international business continued to grow in 1974. Sales of all products made abroad or exported from the U.S. totaled $160.4-million, a 19% increase over 1973. Each of the company's major sales groups showed appreciably-increased sales outside the U.S. despite shortages and adverse economic conditions in many parts of the world.

Building Materials Group—Sales of roofing, siding and insulation, at $360.6-million, rose 19% in 1974. Direct operating profits rose 12% to $43.6-million. The cost of major raw materials, especially asphalt and polyvinyl chloride, increased substantially throughout the year. Although new housing starts dropped sharply, sales volume of building materials did not suffer a corresponding decline due to the continuing strength of the renovation market. Improvement in sales revenue was primarily the result of higher prices. Sales of automotive sound deadeners and insulation continued strong. One important reason is that small cars, which the automakers are building in large numbers, generally require a larger sound-deadening package for quiet operation. Also, a new GAF laminated product has found wide acceptance among automobile manufacturers faced with problems of heat build-up caused by new emission-control devices. The versatile product combines asphalt mastic for sound deadening and fibrous padding for heat insulation.

GARLOCK INC.

Garlock Inc. was organized in 1887 to manufacture devices used to control leakage. Through acquisitions and internal product development programs, the company has continually added other engineered components primarily for piping, machinery and transportation applications. Sales are made to over 35,000 industrial customers, the major markets being machinery, pumps and compressors; passenger cars;

WHEN WRITING TO THIS MAGAZINE, please be certain to include "P. O. Box 471" in the mailing address and position it immediately above "Willow Grove, Pa. 19090." This is a new ruling announced by the U.S. Postal Service, effective December 1, 1975.

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FLINTKOTE ASBESTOS



Take it from our very best customer

That's us. The Flintkote Company. We recommend it to you too. After all, we use Flintkote asbestos in many Flintkote products. Like floor tile; roofing shingles; felts and building papers; industrial coatings; and pipe.

Flintkote asbestos makes lots of things better. Perhaps *your* products. Asbestos is inert, fireproof, non-oxidizing, moisture-proof, bug-proof. And inexpensive. Flintkote can meet and control production to exacting specifications.

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THETFORD MINES, QUE.
CANADA

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transportation equipment; distributors; and government. Garlock's manufacturing processes involve plastics, rubber, metal, textiles, asbestos, chemicals, leather or combinations of these. Its plants are producing at between 75% and 85% of capacity.

The year 1974 was the 14th consecutive year of earnings growth. Net income rose 15% to $6.4-million or $2.70 per share, after adopting the LIFO (Last-In, First-Out) method of valuation for certain domestic inventories. Sales of $151-million increased 20% over 1973. Had the LIFO accounting method not been adopted, Garlock's 1974 earnings would have been 28% higher than in 1973.

Business outside the U.S. continued its dramatic expansion and in 1974 represented 35% of corporate sales and 45% of total earnings. It is expected that sales outside the U.S. will continue to grow at a faster rate than domestic sales.

NATIONAL GYPSUM COMPANY

Net sales for National Gypsum Company in 1974 totaled $584-million against $554.5-million in 1973, $398.4-million in 1970 and $336.4-million in 1965. Net income was $27.6-million in 1974, $31.3-million in 1973, $13.6-million in 1970 and $17.2-million in 1965. The ratio of current assets to liabilities at December 31, 1974, was 3.6-1, down from 4.1-1 at the end of 1973. The 5% increase in sales and the dollar earnings decrease of 12% compared with record levels in 1973 reflect the continued upward trend in buying prices for materials, supplies and energy occurring at a faster pace than the upward trend in selling prices for goods sold.

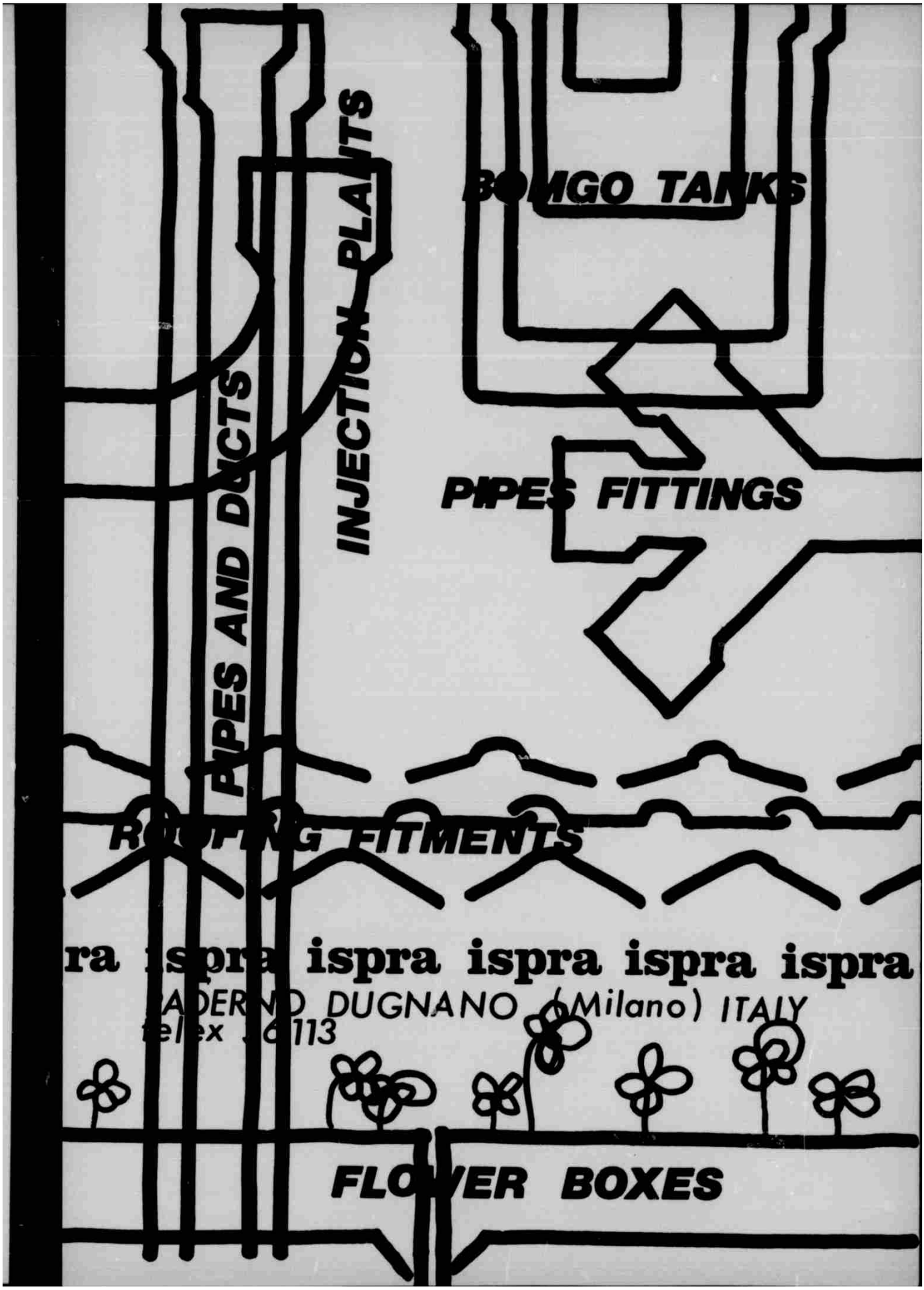
Because of uncertainties in the economy in general and the building industry specifically, certain planned major projects have been postponed. However, long-range plans remain unchanged, except for timing, and call for continued expansion to meet the demands expected in the future.

National Gypsum expanded its markets through the planned acquisition of companies in the shelter products industry. Two such firms are Binning's, Inc., a fabricator of aluminum and glass building products based at Lexington, North Carolina, and Thomas Strahan Company of Chelsea, Massachusetts, a recognized leader in the field of wallpaper and vinyl-acrylic wallcovering products.

Capital expenditures in 1974 totaled about $50-million and included pollution control projects required to fulfill the company's environmental obligations. Projects completed during the year under review resulted in capacity increases ranging up to 100% in certain product lines. National believes environmentalism need not always be a burden; in some instances, the social and legal obligation to "clean up" may be a blessing in disguise. Outdated production processes and equipment may not only pollute, they may also waste enormous quantities of valuable raw materials and energy.

At the Gold Bond Building Products plant at Mobile, Alabama, a modern wastewater treatment system is enabling the production facility to achieve "zero discharge," eliminating much of the expense of ob-

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taining large amounts of fresh water for use in production processes while eliminating pollution. Approximately one-million gallons of the water used by the plant each day is recycled from former wastewater.

RIO ALGOM LTD.

Consolidated net earnings of Rio Algom Ltd. for 1974 were $43.8-million compared with $52.1-million for 1973. Net earnings per common share were $3.52 against $4.19. Net expenditures on capital projects amounted to $14.3-million.

Additional investigative programs were carried out for the purpose of determining the feasibility of developing, for production, the coking coal prospect at Sage Creek in southeastern British Columbia and the asbestos prospect at Lac Roberge in northwestern Quebec. The results of the investigations continue to be encouraging and the programs are being continued this year.

ASBESTOS STOCK QUOTATIONS

Close—August 19, 1975

Abitibi Asbestos	*$1.35	G&W (pfd 3.87)	68¾
Advocate Mines	*$1.65	G&W (pfd 5.75)	69¾
Armstrong Cork	20¾	IC Industries	13⅝
Armst. Cork (pfd 3.75)	45½	IC Ind (pfd A-6)	66¼
Asarco	13⅝	IC Ind (pfd 3.50)	34
Asbestos Corporation	*$20.00	Jim Walter Corporation	35⅜
Bendix	39⅛	Jim Walter (pfd 1.60)	38½
Bendix (pfd 3)	58	Johns-Manville	20¾
Carlisle	9¾	Kennecott Copper	33
Cassiar Asbestos	*$6.75	Maremont	14⅜
Cerro Corporation	14	McAdam Mining	*42c
Certain-teed Products	11⅛	National Gypsum	12
Charter Consolidated	**180	Pathfinder	*15c Bid; 18c Asked
Conwest	*$3.25	Porter, H. K. (pfd 5.50)	65⅛
Flintkote	19⅞	Raybestos-Manhattan	26⅞
F-kote (pfd-A 4.50)	58¼	Rio Algom	*$32.50
F-kote (pfd-B 2.25)	27½	Royal Industries	5½
GAF Corporation	9⅞	Supradur	4⅝ Bid; 5⅛ Asked
GAF (pfd 1.20)	15	Union Carbide	60½
Garlock	20½	Uniroyal	7⅞
Gulf & Western	38⅞	Uniroyal (pfd 8)	73½
G&W (when issued)	19½	United Asbestos Inc.	4 11/16
G&W (when traded)	3¾	Woodsreef Minerals	*44¢

* Canadian Currency
** London—in pence
Sources: The Wall Street Journal & The Northern Miner

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MEN ON THE MOVE

CEMENT ASBESTOS PRODUCTS COMPANY

William R. Bond, Chairman, announced the appointment of *Albert E. Alpine* as Vice President of Operations for Cement Asbestos Products Company, Birmingham, Alabama. Prior to joining CAPCO, Mr. Alpine had been Director of Industrial Engineering with Johns-Manville Corporation and for ten years had served as Vice President of Operations for Certain-teed Products Corporation.

JOHNS-MANVILLE CORPORATION

William L. VanDerbeek, Senior Vice President of the Asbestos Fibre, Mining, Canadian Products and Pipe Divisions at Johns-Manville, announced two major appointments within the Mining Division: *James M. Fletcher* as General Manager and *H. Keith Conn* as Director of Exploration. A native of Sherbrooke, Quebec, who joined J-M in 1948, Mr. Fletcher will be responsible for the worldwide exploration and mining of metallic and non-metallic minerals. Mr. Conn, who will head the exploration arm of the division, was born in Toronto, Ontario, and entered the employ of J-M in 1951. Both men have relocated to the J-M corporate headquarters at Denver, Colorado.

NIPPON ASBESTOS CO. LTD.

K. Koshikawa was named President of Nippon Asbestos Co. Ltd., Tokyo, succeeding *Dr. T. Watanabe* who passed away May 26, 1975. Mr. Koshikawa is responsible for the adoption of the Sales Agent System, an effective method of promoting asbestos products sales in the Keihin (Tokyo-Yokohama) area of Japan. Immediately after graduating from Chuo University, he joined Nippon in 1925, was appointed a Member of the Board of Directors in 1942, Plant Manager of the Ohji Factory in 1943, a Member of the Board of Managing Directors in 1949 and Executive Vice President in 1963.

TURNER & NEWALL LTD.

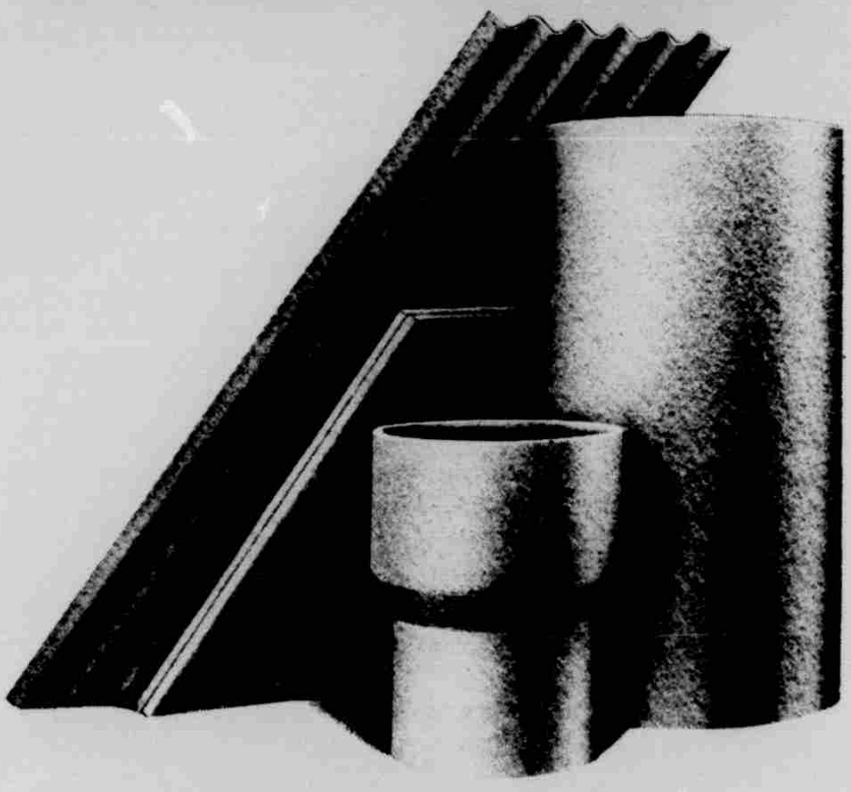
G. Ronald Bainbridge, as the new Energy Consultant, will advise the Turner & Newall Group on all matters appertaining to the generation, use and conservation of energy by T&N companies. He serves at the University of Newcastle as Professor of Energy Studies and Director of the Energy Center. . . . Promotions at T&N are *Martin A. Bell* to Group Finance Manager and *Norman J. Godden* to Controller of Group Pensions and Executive Services Designate.

UNIROYAL, INC.

Andrew J. McNeill was named Group Vice President for Uniroyal, Inc., with executive responsibility for the industrial, plastics and fiber and textile divisions. He is succeeded by *Joseph P. Flannery* as President of Uniroyal Chemical Company.

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BIRTHDAY GREETINGS to . . .

Frances E. Mett, President & Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.

J. G. Mooney, Industrial Relations Manager, Asbestos Corporation Ltd., Montreal, Quebec, October 18.

R. B. Draper, Managing Director, Trist, Draper Ltd., Bristol, Brislington, England, October 20.

Monroe Harris, Senior Vice President, Corporate Planning and Development Division, Johns-Manville, Denver, Colorado, October 22.

James H. Plummer, President, Pars Manufacturing Company, Ambler, Pennsylvania, October 22.

L. B. Petters, Chairman, Turners Asbestos Products Ltd., Jacobs, Durban, Natal, Republic of South Africa, October 27.

Buel E. Carden, Superintendent, Asbeston and Finishing Plants, Uniroyal Fiber & Textile, Hogansville, Georgia, October 28.

H. C. Morton, Senior Staff Engineer, Automotive Control Systems Group, The Bendix Corporation, Troy, New York, October 28.

J. R. Sim, Director, Cape Industries Ltd., London, England, October 30.

A. T. Reid, Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, October 31.

J. Conrad Lavigne, Vice President & a Director, Hedman Mines Ltd., Timmins, Ontario, November 2.

Milton Q. Scowcroft, Director-Textile Group, Raybestos Manhattan Industrial Products Co., N. Charleston, S. Carolina, November 3.

L. G. Stopford Sackville, Deputy Chairman, Cape Industries Ltd., London, England, November 4.

Dirk Salomons, Director & President of the Board, Asbest-cementindustrie Asbestona N.V., Harderwijk, Holland, November 5.

Robert J. Merrill, President, United Asbestos Inc., Montreal, Quebec, November 6.

Lawrence F. Dieringer, Corporate Industrial Hygienist, Uniroyal, Inc., Middlebury, Connecticut, November 8.

Melvin Berlund, Superintendent, Atlas Asbestos Company, Coalinga, California, November 9.

R. Gaze, Director, Cape Industries, London, England, November 9.

John A. McKinney, Senior Vice President-Legal Services, Secretary & a Director, Johns-Manville, Denver, Colorado, November 9.

Richard O. Moebius, Textile Mill Superintendent, RM Friction Products Company, Manheim, Pennsylvania, November 10.

Monte C. Carpenter, Executive Vice President, Building Products Group, The Flintkote Company, White Plains, New York, November 12.

Willis G. Sullivan, Secretary, A & M Insulation Company, Chicago, Illinois, November 12.

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BIRTHDAYS—CONTINUED

G. Parry Wiess, Vice President-Operational Staff Services, Garlock Inc., Rochester, New York, November 12.

W. B. Callan, Product Research and Development Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 14.

K. H. Dixon, Joint Managing Director, TBA Industrial Products Ltd., Spotland, Rochdale, Lancashire, England, November 14.

Karl V. Lindell, President, Karl V. Lindell Associates Ltd., Danville, Quebec, November 14.

George L. Romine, Vice President-Abex & President, Friction Products Group, Abex Corporation, New York City, November 14.

ASBESTOS/A REMARKABLE MINERAL FIBER—New reference book on asbestos, by Marion S. Badollet, that presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [Send your order and advance payment to Mr. Badollet, 563 E. Front Street, Apt. 589-B, Plainfield, N. J. 07062—U.S. $20.00 per copy including postage.]

CHRYSOTILE ASBESTOS TEST MANUAL—Prepared jointly by the Asbestos Textile Institute and the Quebec Asbestos Mining Association, this 3rd edition provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. Orders may be placed through this Magazine [$18.95 to U.S., Canada & Mexico; $20.95 to all other countries].

THE ASBESTOS FACTBOOK—Written in layman's language, this handy booklet offers useful information about the origin, locations and uses of asbestos, the chemical compositions of various types of the mineral, testing methods and grades. Your copy is available from this Magazine for just $1.00 [28 pages; 5" x 7½"; paper-bound].

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BOOKS ON POLLUTION & ENVIRONMENTAL LAW

POLLUTION CONTROL 1975 IN THE ASBESTOS, CEMENT, GLASS AND ALLIED MINERAL INDUSTRIES—Author M. Sittig discusses air and water pollution, dust reclamation, disposal problems and phenolic and stack gas emissions; reviews air separation, wet milling methods and emission control costs in asbestos mining and milling; and reports on proposed solutions to pertinent problems in specific asbestos products manufacturing industries. [333 pages; $36.00; Noyes Data Corporation]

ENVIRONMENTAL SOURCES AND EMISSIONS HANDBOOK 1975—Mr. Sittig traces the origins of the various modifications a given pollutant can assume; discusses intermedia transfers; deals briefly with asbestos emissions in air and in water; and lists emission factors for asbestos from mining, milling, processing and consumptive uses. [521 pages; $36.00; Noyes Data Corporation]

ENVIRONMENTAL LAW HANDBOOK/3RD EDITION—Presents views on the major pieces of Federal legislation which are considered environmental laws in the fields of air, water, noise pollution control, pesticides, toxic substances, solid waste disposal and land use; examines the rulings in laymen's terms as to the requirements of and ramifications on industry, government and the public. [320 pages; $29.50; Government Institutes, Inc.]

ASTM TECHNICAL BOOKS ON COMPOSITES

(When placing orders, please add 5% for shipments outside of the U.S., Canada and Mexico.)

FOREIGN OBJECT IMPACT DAMAGE TO COMPOSITES—Analyzes and studies the response of composite materials to impact and of composite structures and structural components to impact. [252 pages; $22.75; STP 568; American Society for Testing and Materials]

FATIGUE OF COMPOSITE MATERIALS—Focuses on the critical problem of fatigue failure in composites; discusses crack growth and interfaces, deformation and damage, fracture mechanisms and environmental effects, prediction, reliability and design. [340 pages; $31.00; STP 569; American Society for Testing and Materials]

A DIRECTORY OF THE U.S.

WASHINGTON IV—Lists names, titles, telephone numbers and addresses for governmental and judicial agencies, the communications media, businesses, trade and professional associations, cultural institutions, colleges and universities, hospitals and medical services, and for groups concerned with community affairs, research and development, banking and labor. [600 pages; $26.00, add $3.00 for deliveries outside the U.S., Canada and Mexico; Potomac Books, Inc.]

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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D. C. 20231, for 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittances should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be given.

British 1,393,246—An adhesive for high-temperature applications and particularly for use on vitreous enamel consists of 20-65% by weight of a solution of sodium silicate, 0-20% each of ball clay and zircon powder, up to 15% of Amosite asbestos, 10-60% of iron powder and 0-4% of a surface active agent; P. F. Hawthorne; assigned to Foseco International Ltd., May 7, 1975; 3 pages.

British 1,393,247—The reaction chamber of a gas converter is insulated with a preformed web of colloidal silica sol-bonded aluminum silicate fibers adhered with a sodium silicate solution containing Amosite asbestos, ball clay, zircon powder, iron powder and a surface active agent; H. R. Meumann; assigned to Foseco International Ltd., May 7, 1975; 3 pages.

British 1,393,291—A vinyl paste sealant for use on freshly-cured epoxy coatings or other substrates consists of a vinyl chloride dispersion resin, a vinyl chloride blending resin, a ketone-formaldehyde resin, an alkaline earth metal carbonate or sulfate, a silane adhesion promoter and asbestos fiber or limestone as a filler; assigned to Union Carbide Corporation, May 7, 1975; 6 pages.

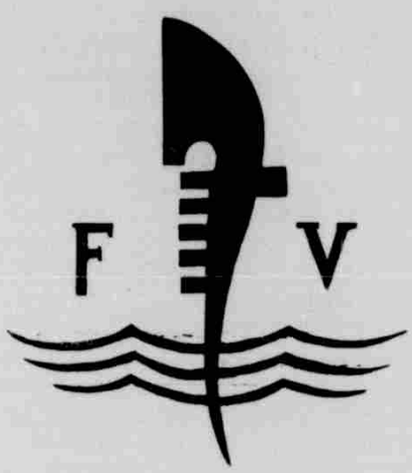
U.S. 3,878,142—Moulds used in the casting of iron, steel or non-ferrous metals are lined with a mixture of 60-90% by weight of aluminum waste metal, 1-19% of asbestos, 1-10% of phenolic resin, up to 1% of a wetting agent and up to 22.5% of exothermic materials, insulating materials and lightweight fillers; J. Tisza; assigned to Firma Tidd Chemischetechnische Produkte GmbH, April 15, 1975, 4 pages.

U.S. 3,879,338—Friction elements for auto brakes or the like are made from a batch consisting of (1) 30-60% by weight of asbestos, (2) up to 55% of other fillers and (3) a binder prepared by blending a nonoxyalkylated resole with either an oxyalkylate resole, alkylated resole, oxyalkylated novolac or alkylated novolac; F. S. Grazen, M. L. Buike & F. M. Bryzinsky; assigned to Hooker Chemicals and Plastics Corporation, April 22, 1975; 8 pages.

U.S. 3,879,831—A composition for forming seals in gas turbine engines consists essentially of 60-80% by weight of nickel, 2-12% of chromium, 1-10% of cobalt, 4-20% of aluminum, up to 3% of yttrium or hafnium and/or lanthanum and 3-15% of asbestos, graphite, mica, molybdenum disulfide or other suitable inert powder; D. V. Rigney & P. W. Schilke; assigned to United Aircraft Corporation, April 29, 1975; 5 pages.

U.S. 3,885,006—In the manufacture of improved brake shoes or clutch plates the shaped mixture of Chrysotile asbestos, a resin binder and re-

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quired fillers is cured in two stages, first at a temperature and pressure to drive off resin volatiles and pre-harden the binder and then at a higher temperature to effect post-curing; D. M. Hatch, G. M. Studdert, J. B. Williamson & R. W. Wycinowski; assigned to Hitco, May 20, 1975; 5 pages.

U.S. 3,885,068—A mat for preventing passage of liquid therethrough is made by coating a non-woven polyolefin fabric with a mixture of a stable asphalt emulsion and asbestos which has been pretreated with an alkylarylpolyether alcohol or comparable non-ionic surface-active agent; C. R. Bresson & F. D. Spaulding; assigned to Phillips Petroleum Company, May 20, 1975; 4 pages.

U.S. 3,887,462—In the disposition of asbestos-containing waste streams there is admixed with the stream sludge solids from a brine purifier and preferably with polyacrylamide as a flocculant and the mixture is pumped into an underground cavity for safe, permanent disposal of the fiber; T. F. Lagess & V. H. Maudlin; assigned to Dow Chemical Company, June 3, 1975; 4 pages.

U.S. 3,888,793—A synthetic Chrysotile for use in hydrocarbon conversion reactions is made by replacing a part of the usual magnesium, nickel and cobalt ions with lanthanum or other rare earth ions and optionally an additional part with vanadium, chromium or comparable metal ions; W. F. Arey, Jr., & W. H. Sawyer; assigned to Exxon Research and Engineering Company, June 10, 1975; 7 pages.

METRICATION—On July 16 the House Science and Technology Committee placed Bill HR8674 before the U.S. House of Representatives for its consideration. It calls for establishing a United States Metric Board to plan and coordinate the increasing usage of the metric system in the U.S. without any specific time frame for conversion. Action on the Bill was deferred until September at the earliest.

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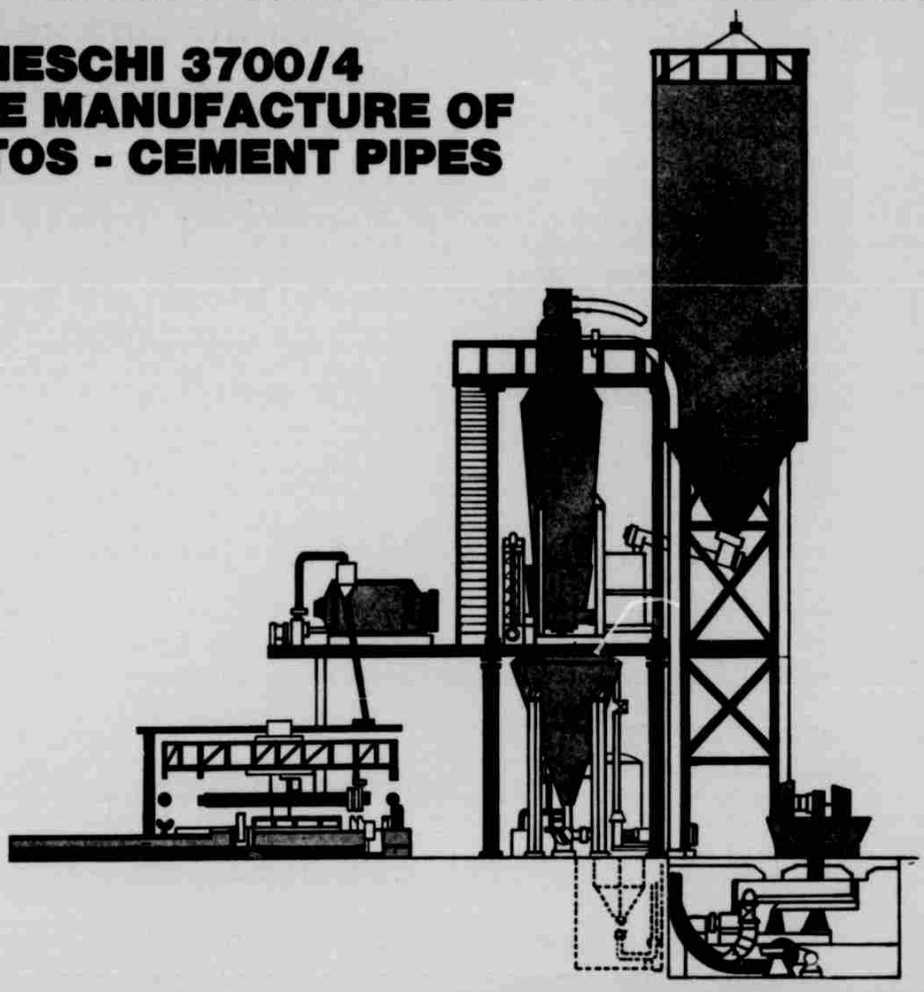
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Revue internationale d'amiante-ciment

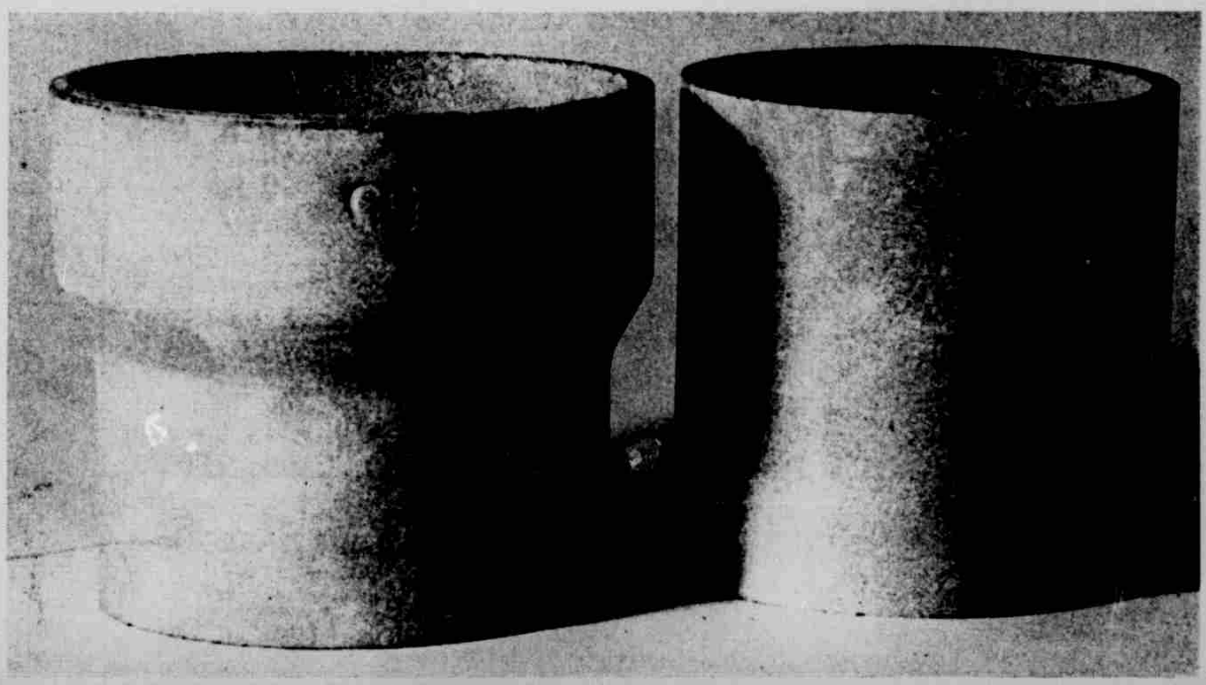
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CALENDAR OF EVENTS

AMERICAN SOCIETY FOR TESTING AND MATERIALS—Meetings of ASTM Committees to be held in *October* include: D-22 on Methods of Sampling and Analysis of Atmospheres, Sheraton Hotel, Philadelphia, Pennsylvania (*12-17*); E-40 on Technical Aspects of Product Liability Litigation, Sheraton Inn O'Hare South (Schiller Park), Chicago, Illinois (*15*); F-3 on Gaskets, Park Plaza Hotel, Toronto, Ontario (*15-17*). The following Committees will meet at the Statler Hilton, Boston, Massachusetts: D-9 on Electrical Insulating Materials (*20-22*); and C-3 on Chemical-Resistant Nonmetallic Materials (*22-24*).

NATO ADVANCED STUDY INSTITUTE ON GEOSTATISTICS—Cosponsored by Universita di Roma, Ecole des Mines de Paris and Ecole Polytechnique of Montreal; Rome, Italy, *October 13-25*.

ENVIRONMENTAL LAW—Practical Course presented by Government Institutes, Inc., in cooperation with Pollution Engineering Magazine; Fairmont Hotel, San Francisco, California, *October 16-17;* Statler Hilton Hotel, Washington, D. C., *November 13-14*.

MANAGING RESOURCES SEMINAR/SYMPOSIUM—Held by Project Management Institute; St. Francis Hotel, San Francisco, California, *October 19-22*.

SCANANALYSIS III—Technical Meeting on the fundamentals of scanning electron microscopy and microanalysis with applications in materials, microelectronics and biomedicine; held by EMV Associates, Inc. (formerly EMventions, Inc.) at Holiday Inn, Bethesda, Maryland, and the EMV Microanalysis Laboratory, Rockville, Maryland, *October 20-22*.

POLLUTION ENGINEERING—4th International Congress and Exposition—Convention Center, Cleveland, Ohio, *October 20-23*.

AIHA/NIOSH TRAINING COURSE—New course in industrial hygiene co-sponsored by American Industrial Hygiene Association and National Institute for Occupational Safety and Health; will be conducted in eight locations through June 1976 including the Queen Mary Hyatt, Long Beach, California, *October 20-24* and Washington University, St. Louis, Missouri, *November 3-7*.

CONTINUOUS AMBIENT AND SOURCE MONITORING INSTRUMENTATION—Short Course presented by Instrument Society of America and Environmental Protection Agency; Research Triangle Park and Durham, North Carolina, *October 20-24*.

ATME-I-1976—American Textile Machinery Exhibition International; sponsored by American Textile Machinery Association and Textile Hall Corporation; Textile Hall, Greenville, South Carolina, *October 25-29*.

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REMEMBER WHEN?

(August 1925 ASBESTOS)

New Advertiser: Asbestos Importers, Antwerp, Belgium.

ASBESTOS reported the death, on July 19, 1925, of Edmund W. Craft at the age of 44. Mr. Craft became Purchasing Agent of the Thermoid Rubber Company, Trenton, New Jersey, in 1909 and was elected a Director of that company in 1922 and served in those capacities until his death.

Also reported was the death on June 19, 1925, of Paul J. Krez, Founder and President of Paul J. Krez Company of Chicago, Illinois. Mr. Krez was a pioneer in the distribution and application of asbestos insulating and roofing materials.

The Asbestos Manufacturing Company, Huntingdon, Indiana, announced the start of production at its newly-opened plant and reported its sales were extremely satisfactory although limited due to the fact that installation and activation of machinery in the plant were not yet complete.

The Norristown Magnesia and Asbestos Company, Norristown, Pennsylvania, announced it had decided to voluntarily liquidate its assets, pay off its creditors and distribute any remaining funds to its stockholders. It had requested its suppliers to extend credit for a period of six months while liquidation was proceeding and practically all of them had agreed and were cooperating in formulating acceptable plans for an orderly liquidation.

From London came news of the merger of Turner Brothers Asbestos Company and Ferodo Ltd. which was effected through an exchange of eleven shares of Turner stock for each five shares of Ferodo.

Information from Belgium indicated the Court of Appeals in Brussels had ruled that the basic patents on the Hatschek process for manufacture of asbestos-cement products would expire in July 1926, shortening the expected life of the monopoly by six months.

(September 1925 ASBESTOS)

The September issue contained a rather extensive article on The Mining of Blue Asbestos in South Africa and a highly-detailed description of Asbestos Deposits in the Altai Highlands of Russia. The latter article was excerpted from the Gorny Journal, published in Moscow.

It was announced that C. M. Stokes, former Sales Manager for Norristown Magnesia and Asbestos Company, had become Sales Manager for American Covering Manufacturing Company, of Jersey City, New Jersey.

The Manhattan Rubber Manufacturing Company announced the start of major alterations and expansion of its plant at Passaic, New Jersey, at an estimated cost of $163,000. The company later became a key component of Raybestos-Manhattan, Inc.

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Coldfinger

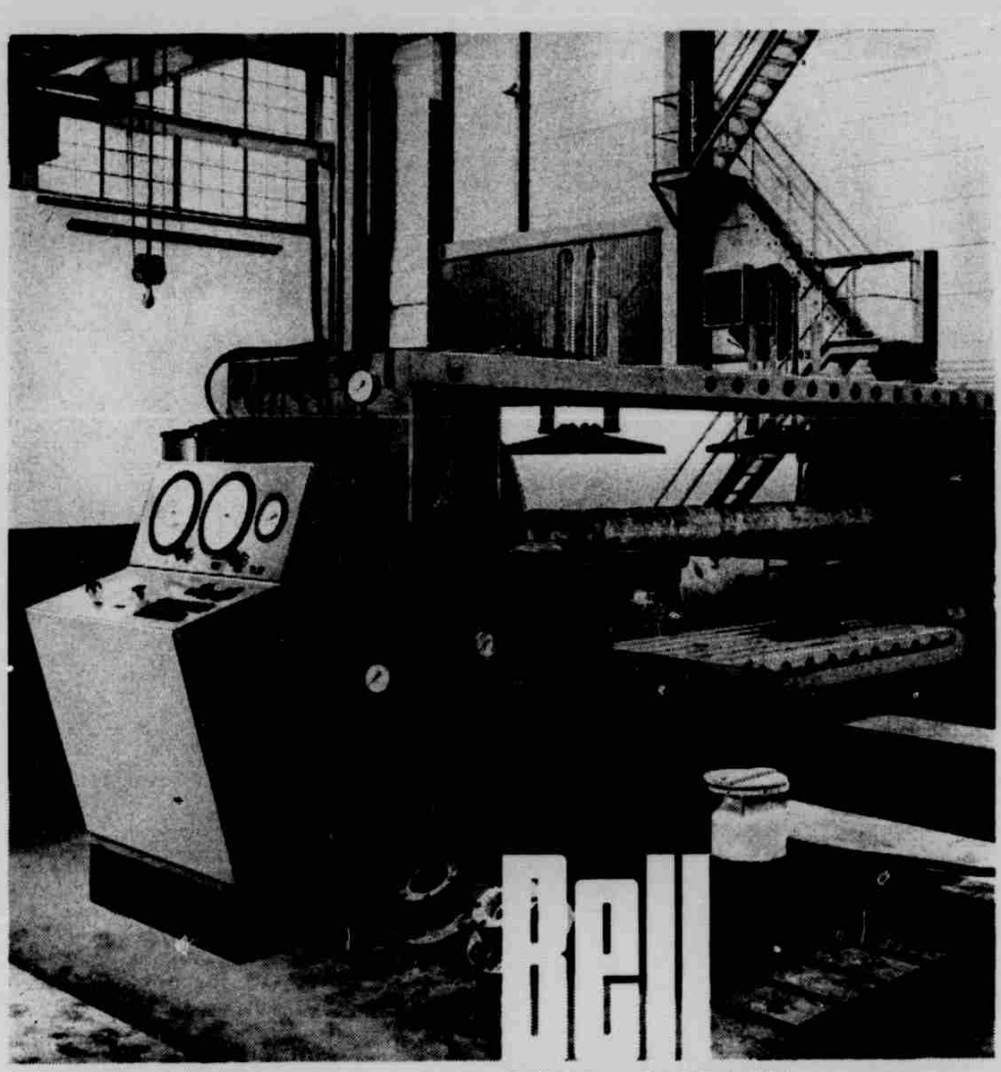
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