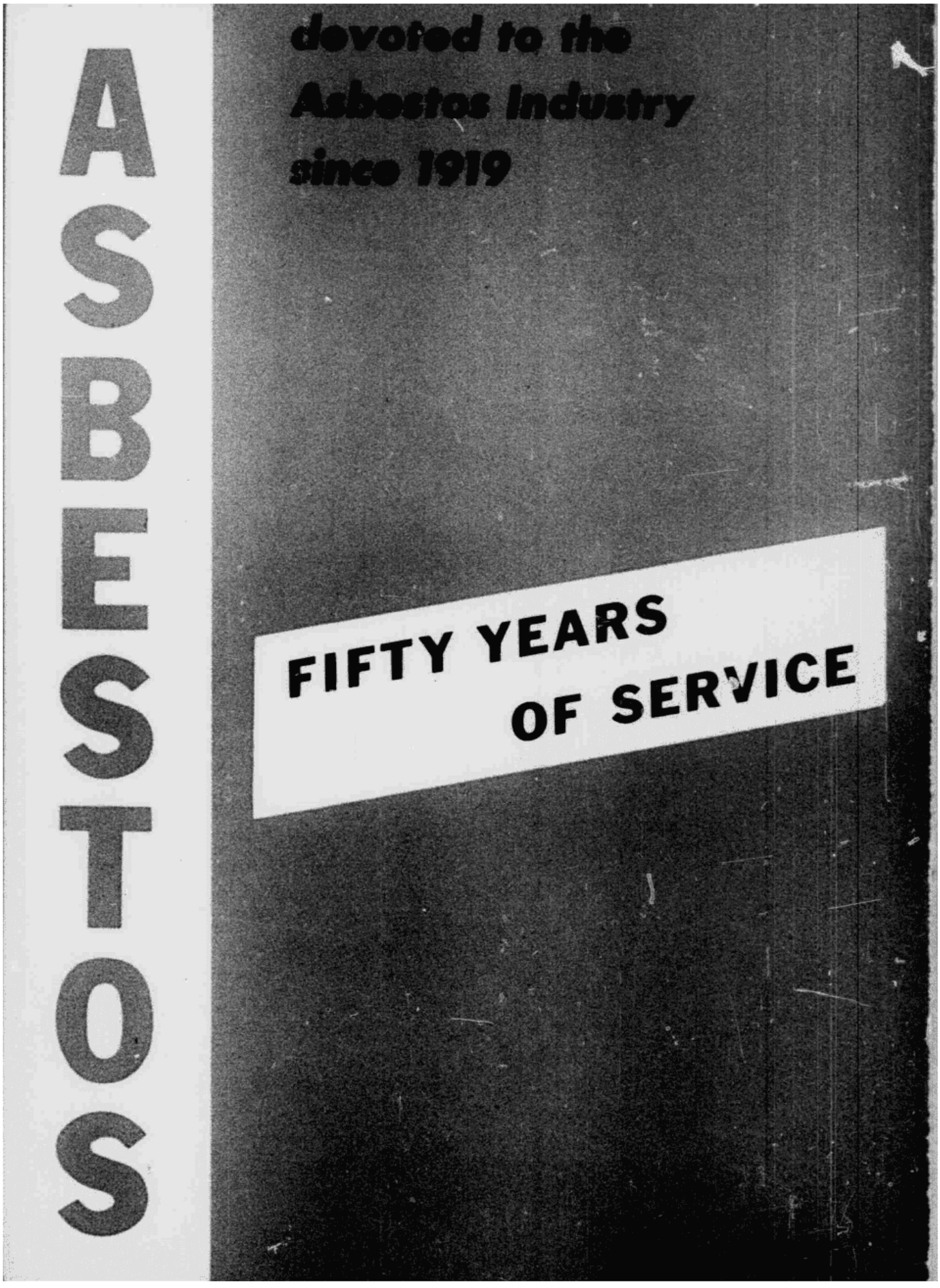


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Raybestos-Manhattan

ASBESTOS

VOLUME 51 MAY 1970 NUMBER 11

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THE INFLUENCE OF ASBESTOS ON HEALTH

Three-Year Survey

The results of a three-year survey by a research team from the Medical Faculty of McGill University into the health of workers in Quebec's asbestos mining industry suggest that, at present levels of dust exposure in modern asbestos mills, even 30 years employment would probably not carry any measurable risk of lung cancer.

The influence of asbestos on health has been the subject of intensive research in many parts of the world mainly because of the discovery that, in certain circumstances, exposure to the mineral fiber may be related to cancer of the lung and to mesothelioma, a cancer of the covering of the lung.

Supported by substantial grants from the Institute of Occupational and Environmental Health of the Quebec Asbestos Mining Association as well as from the U.S. Public Health Service, the epidemiological studies formed part of an international research program coordinated by the Union Internationale Contre le Cancer.

Headed by Dr. J. C. McDonald, of McGill University's Department of Epidemiology and Health, the international research team's investigations were aimed at assessing the risks of lung cancer to persons exposed to Canadian Chrysotile asbestos. Another primary purpose was to review all aspects of the health of workers in Quebec's asbestos mines and mills to ensure that it is efficiently protected.

Dr. McDonald reported on the findings of a study of mortality and causes of death in some 12,000 industry employees born between 1890 and 1920. The survey showed that the 10% of these employees who belonged to the highest dust-exposure group had an overall death rate about 12% higher than the others, mainly due to asbestosis, lung cancer and other respiratory complaints. The lung cancer death rate in this same group was about three times higher than that of employees with minimal dust exposure. Seventy per cent of this group of employees who belonged to the lowest dust-exposure categories had little or no increased mortality from these diseases.

"Two points must be emphasized," declared Dr. McDonald. "First, that the dust exposure experienced by these

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ditions in the asbestos mills were poorly controlled, and, second, that the total number of respiratory diseases attributable to asbestos was very small."

Dr. McDonald then reported on the results of findings from surveys throughout Canada of deaths due to mesothelioma. During the 1960-63 period only 165 fatal cases had been recorded by pathologists throughout the entire country. Field inquiries confirmed that in a minority of cases there was a definite history of having worked with asbestos. Almost all the histories were of exposure in the manufacture and industrial application of the mineral, rather than in the production of asbestos fiber. There was no increased number of cases whose contact was limited to residence in the neighborhood of asbestos mines or mills.

The two sets of results confirm the association between occupational exposure to asbestos and these two varieties of respiratory cancer. The results are nevertheless encouraging in that they suggest the risk is virtually confined to levels of dust exposure which are controllable, if not already controlled, in most Canadian asbestos mines and mills.

In light of the researchers' findings, it has been decided to continue the research program, with Asbestos Industry support, for a further five years. The extended research program into the health of Quebec's 6,000 asbestos workers will have these main objectives:

(1) To record and analyze deaths and their cause to enable the present approximate estimation of what constitutes a safe level of dust concentration to be more accurately defined.

(2) Close surveillance over the occurrence of suspected mesotheliomas in Canada, so as better to understand their cause. ["Asbestos exposure has failed to explain most of them and is probably not the only factor when present," Dr. McDonald commented.]

(3) In collaboration with the Industry's industrial clinics in Thetford Mines and Asbestos, it is planned to introduce new procedures for the regular periodic medical supervision of asbestos workers, based on the lessons learned during the three-year study just completed.

DECISION-MAKING SYMPOSIUM—The 9th International Symposium on *Techniques for Decision Making in the Mineral Industry* will be held in Montreal, Canada

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Specialized Promotion

The June 1969 issue of ASBESTOS presented a new feature entitled "Specialized Promotion" to give our readers an opportunity to relate to the Industry special campaigns undertaken to promote a specific asbestos product or a particular process.

The first article in the series was a description of National Gypsum Company's promotion of its prefinished siding, "Woodrock."

While reading through the December 1969 issue of "Cape News," we came upon the story of the dramatic and unique way Cape Universal Building Products Limited presented its products at the International Building Exhibition. This "method of display" fits into the "Specialized Promotion" category and is described below.

CAPE UNIVERSAL'S CONTEMPORARY EXHIBIT

At the International Building Exhibition which opened last November at Olympia, England, the unconventional way Cape Universal displayed its products drew many visitors to the Stand.

In contrast to the usual simple display presentation, each main product of Cape Universal was fashioned into an abstract sculpture. The sculptures were grouped on the floor of the Stand which was carpeted with Uxbridge Flint Bricks in a wide range of colors.

Colored lights played upon each piece of sculpture and sound-sensitive switches caused the lights to change color when subjected to various noises, including the sounds of approaching footsteps.

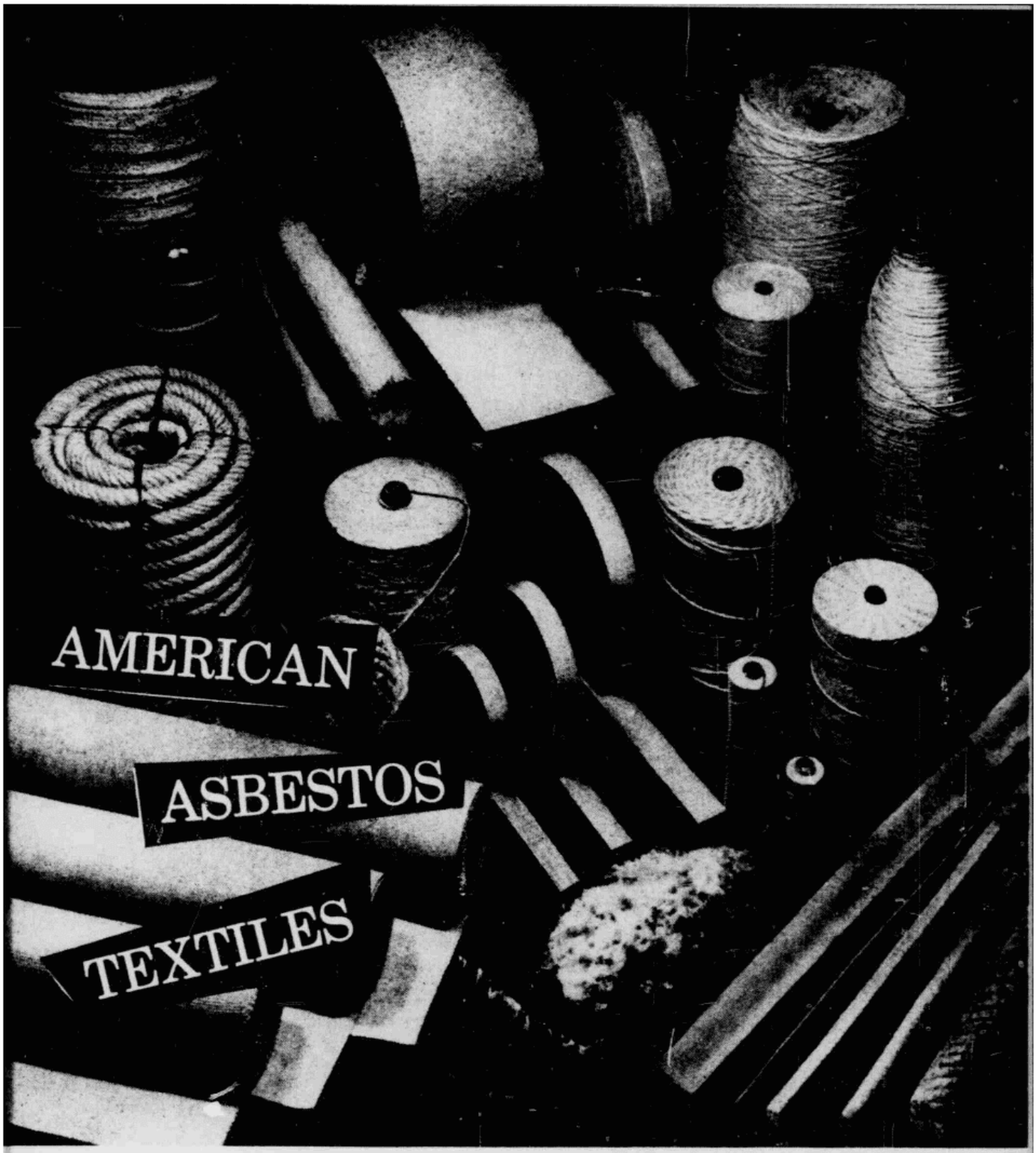
The large Stand was open on three sides but, at the rear, a colorful back-drop cloth showed the names of the company products.

The stately monolith was made from Asbestolux; the fire-resistant board. A smaller totem pole was composed of and decorated with Colorbestos, in its six available colors.

On close examination, a slowly-revolving, two-foot cube proved to be constructed of various Rocksil panels and the organ pipes were, in actuality, Universal asbestos-cement pipes formed in a cluster of different lengths and diameters.

Colored lights glowed beneath the two Dominaire dome-

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resembled a group of mushrooms. Union pitch-fiber pipes may not seem to lend themselves to display but the simple line of black pipes on the Stand bent gracefully to one side and proved to be quite dramatic.

Described as a 'Son et Lumiere' display, a modern art exhibition, or a Japanese water garden, the exhibit was the first showing of the entire range of Cape Universal products at Olympia so it was appropriate they be displayed in this impressive and unusual manner.

This is indeed a modern, advanced method of exhibiting and it is an indication the Asbestos Industry is contemporary in its thinking, will grow and progress with "change" and will continue in its efforts to find new uses for asbestos and to improve the effectiveness of asbestos-based products now in production.

NEW SIMPLICITY TRADEMARK—Simplicity Engineering Company, Durand, Michigan, a subsidiary of General Steel Industries, has changed its trademark for the first time since its founding in 1922. According to President Robert L. Pierce the new trademark is modern, yet simple in design, and is emblematic of the efficient simplicity of design of the company's vibratory equipment for the aggregate, foundry, mining, food and other basic industries. The new trademark will appear on Simplicity's machine decals, in trade show displays, in advertisements and on the company's forms and letterhead. The new letterhead will also incorporate a "screen" design as an overall pattern, again representative of Simplicity manufactured equipment.

The new trademark can be seen in Simplicity Engineering's advertisement on page 51 of this issue of ASBESTOS.

THE NATIONAL CONFERENCE OF STANDARDS LABORATORIES (NCSL) will hold its biennial meeting, June 15-17, 1970, at the National Bureau of Standards, Gaithersburg, Maryland. The theme of the Con-

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AMMANN Asbestos Mill



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

U. AMMANN Ltd.

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Asbestos Magazine, 1970, May 1970
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UNIROOF Roofing System

Uniroof is a single-layer roof-covering system, based on a flexible synthetic rubber sheet backed with asbestos paper. It is manufactured by Uni-Tubes Limited, Slough, Bucks, England (a subsidiary of Smiths Industries Limited), and marketed by Uni-Tubes Limited, Cricklewood Works, London. The material is intended for use as a one-layer roof covering on limited access flat and pitched roofs and for application to all normal forms of decking. The system is also suitable for fascia finishing and sealing roof drains, ventilation pipes, etc. It is self-extinguishing (as defined in British Standard 2782, 1965) and when used on appropriate decks the roof will achieve an EXT. AA fire rating.

The Uniroof roofing system is based on Hypalon (chlorosulphonated polyethylene), a synthetic rubber compound manufactured by Du Pont Company (United Kingdom) Limited. The system comprises Uniroof laminate, unbacked flashing, wire-reinforced flashing, joint sealing tape, adhesives and a Uniroof remedial kit.

The laminate is a Hypalon sheet backed with Neoprene-bonded asbestos paper. It weighs only two pounds per square yard and is supplied with or without a selvedge in 25-yard rolls and in 36″, 42″ and 48″ widths. It will stretch and recover without stress to accommodate all the normal structural movements caused by drying out and settling. The system will conform to the contours of any roof.

Hypalon sheet is produced by calendering and is then continuously laminated to pre-cut asbestos paper to produce Uniroof laminate and to wire mesh to produce wire-reinforced flashing. The hot, tacky surface of Hypalon provides adequate adhesion for this purpose.

Installation is simple and quick. The adhesive is easily applied. The laminate is then rolled on and the joints are weather-proofed with Hypalon tape which is heat-welded to the laminate.

Extensive research and testing have proved the laminate has exceptional resistance to wind, rain, frost, ice, sunlight, ozone and corrosive industrial atmospheres. It has been exposed to extreme temperatures for over ten years with no signs of crazing, blistering or ply separation. A life expectancy of over twenty years has been confirmed after 5,000 hours of

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minimal if the covering is not subjected to abnormal movements of the structure or other unusual circumstances. Foot traffic and light, concentrated loads associated with installation and maintenance operations do not damage the roof covering.

MINERAL PROCESSES COURSE—As a result of the success of a similar joint venture last year, a Summer School on "Mineral Processes: Their Analysis, Optimization and Control" will be jointly sponsored by The Departments of Metallurgical Engineering of The Colorado School of Mines and Queen's University. The course will be held May 31-June 12, 1970, at Queen's University, Kingston, Ontario, Canada, and August 16-28, 1970, at the Colorado School of Mines, Golden, Colorado.

The subjects to be discussed during the Course are (1) Introduction, Purpose and Scope; (2) Empirical Steady State Modelling including Multiple Regression (Filtration, Rake Classifier) and Factorial Design and Fractional Factorial Design; (3) Mathematical Steady State Modelling and Simulation including Cyclone Classification, Comminution and Flotation and Optimal Circuit Design; (4) Dynamic Modelling (Mill-Cyclone Unit); (5) Empirical Optimization including Response Surface Exploration, EVOP and SSDEVOP; (6) Mathematical Optimization including Search Methods and Mathematical Programming (Linear, Dynamic); and (8) Process Control including Measuring Devices, Instruments, Regulating Devices, Control Valves, Automatic Control Loops, Transfer Functions and System Dynamics and Process Control Computer.

Registration is $375.00 and includes cost of the comprehensive training manual and other aids such as the remote terminal.

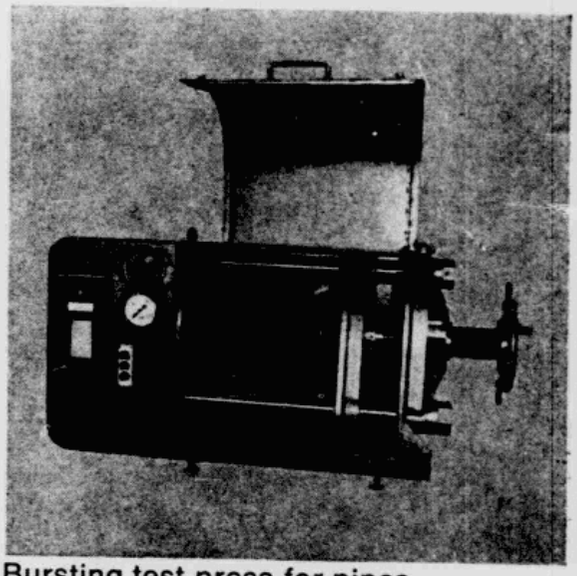
For further information contact Professor A. L. Mular at Queen's University or Professor W. R. Bull at the Colorado School of Mines.

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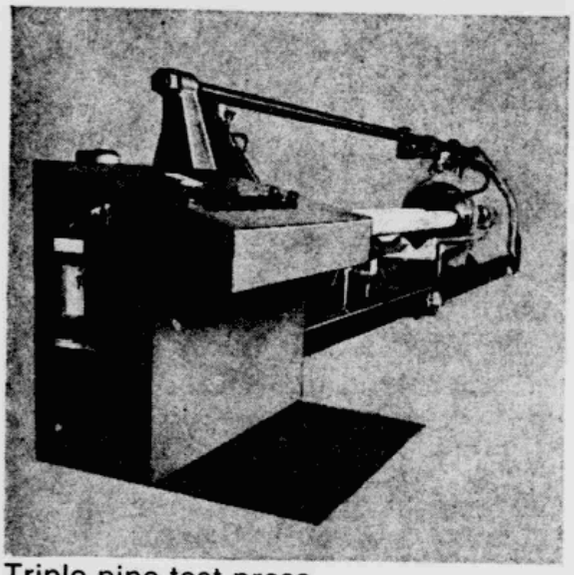
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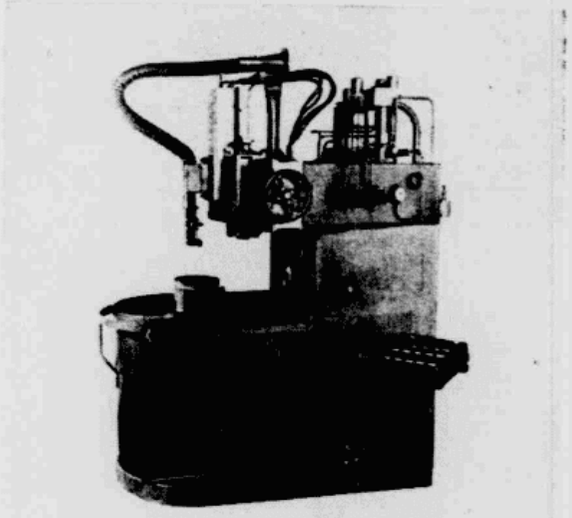
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In Memoriam



Robert E. Cryor

1911 - 1970

ROBERT E. CRYOR, President of North American Asbestos Corporation, died April 21, 1970, at St. Josephs Hospital, Savannah, Georgia. A resident of Hinsdale, Illinois, Mr. Cryor had been temporarily residing at nearby Hilton Head Island, South Carolina.

Born on February 23, 1911, in Dixon, Illinois, Mr. Cryor began his career in the Asbestos Industry in 1929 when he joined the Union Asbestos and Rubber Company (now Unarco Industries, Inc.). While with Unarco, he served as President of the Asbestos Textile Institute (1951-52).

Mr. Cryor founded North American Asbestos Corporation in 1953 and had guided the growth of the firm to its present position as the largest distributor of Amosite and Crocidolite (Blue) asbestos in the Western Hemisphere. North American Asbestos is a member of The Cape Asbestos Group of Companies.

At the time of his death, Mr. Cryor also was President of Cape Asbestos (Canada) Ltd. and a Director of certain other companies in the United States, Canada and Mexico. He was a recognized authority on asbestos mining, milling and manufacturing and held a number of patents and authored many technical articles on the use of the fiber. He was the only member of the Asbestos Industry to serve on the National Executive Reserve Board.

In memoriam donations may be made to the American Cancer Society, 37 South Wabash, Chicago.

*Photograph by Fabian Bachrach

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BAUER HURRICANE PULVERIZER-CLASSIFIER



Resists Abrasion: Bauer's versatile Hurricane Pulverizer-Classifier is now available with a new optional feature . . . a 2" thick, high strength, high density Coors alumina ceramic lining. This exclusive Bauer lining far outlasts high alloy metals . . . is especially recommended when processing abrasive chemicals or minerals. It is your protection against downtime and inferior product quality.

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BAUER

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CAREY/BRIGGS MERGER—Stockholders of Briggs Manufacturing Company, on April 9, 1970, approved an agreement providing for the merger of Philip Carey Corporation into Briggs. The agreement, announced in March 1970 ASBESTOS, had been previously ratified by Glen Alden Corporation of which Philip Carey was, prior to the merger, a wholly-owned subsidiary. The merger was effective immediately and the surviving corporation was designated *"Panacon Corporation."* Panacon will manufacture and market a broad line of materials and products for construction and industrial uses. It will headquarter in Cincinnati, Ohio, and its stock will be initially listed on the Detroit Stock Exchange.

Paul A. Johnston, former Briggs Chairman, was elected Chairman of the Board of Panacon, *Charles E. Tennesson, Jr.* was named President and Chief Executive Officer and *Sash A. Spencer* became Executive Vice President. Mr. Tennesson had been President of Philip Carey since September 1967 and a Vice President of Glen Alden since 1966. Mr. Spencer had been President of Briggs since August 1966.

Initially the operating divisions of Briggs and Carey will continue to operate as divisions of Panacon. Based on combined sales of Briggs and Carey, Panacon had sales in excess of $150 million in 1969. The company employs approximately 6000 people and operates 18 manufacturing plants and 30 distribution warehouses throughout the United States and Canada.

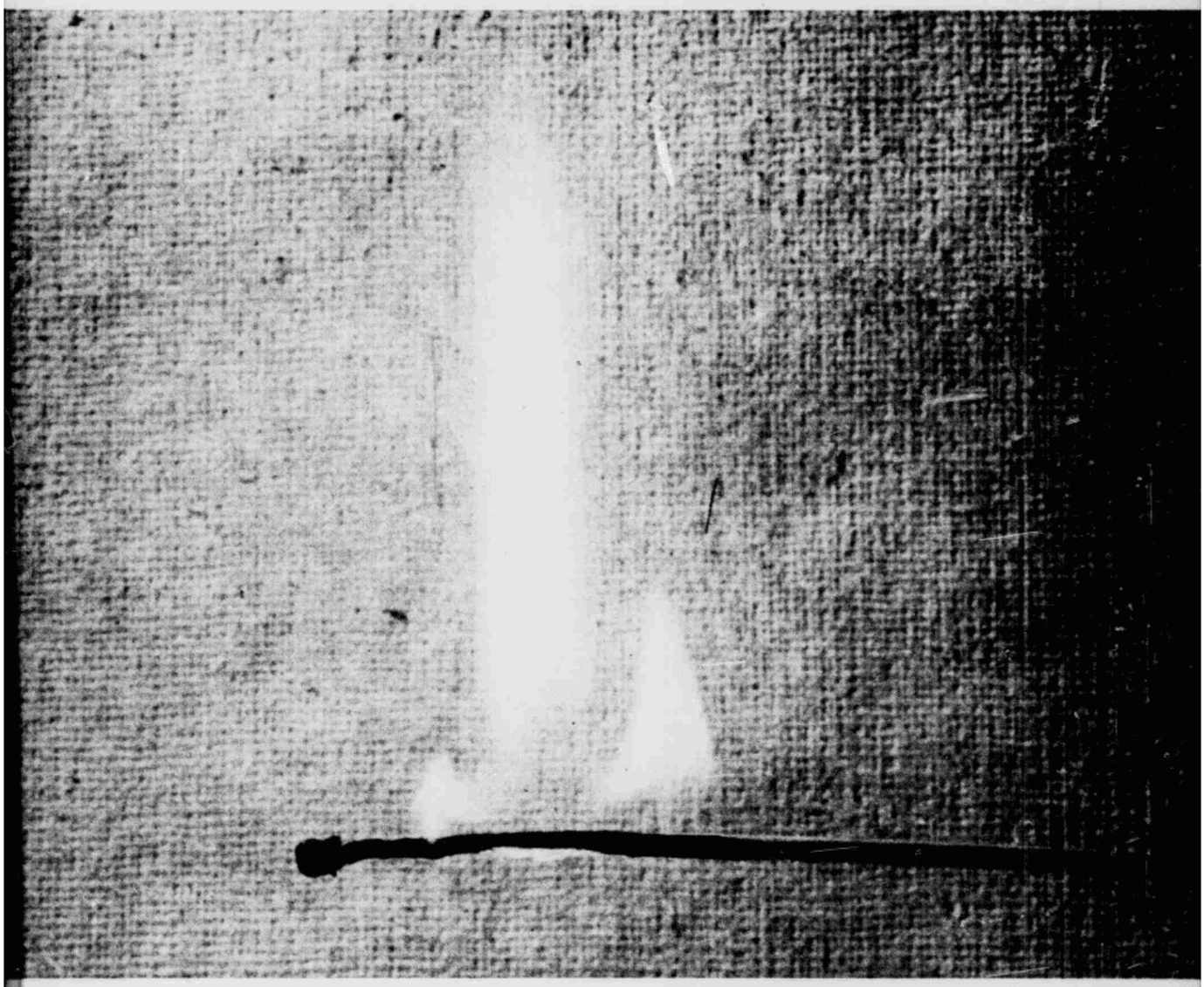
THE BAUER HURRICANE PULVERIZER-CLASSIFIER, an air attrition mill with integral clarifier, is now available with a high density Coors alumina ceramic lining. The ceramic material outlasts high alloy metals and provides positive protection against iron contamination and discoloration during the grinding-classification operation.

Manufactured by *The Bauer Bros. Co.*, a subsidiary of Combustion Engineering, Inc., the Hurricane is ruggedly constructed for continuous, heavy-duty operation and is used in processing functions where precisely-controlled pulverization, classification and positive extraction of impurities are required.

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Building

From: McGraw-Hill Information Systems Company

MARCH 1970 brought another heavy flow of new projects to the nation's construction industry, sustaining the Dodge Index at a near-record high. Rising costs and a continuing volume of very large projects were major factors in the surge of construction during the opening months of 1970. The value of contracts in March totaled $6,140,111,000, a 19% increase over the same month a year ago.

Nonbuilding construction provided the major thrust in March. Total contract value, at $1,974,865,000, was 39% above last March. The heavy construction category was the only one to show a seasonally-adjusted gain over February's rate, an increase of 10%. A few big projects made most of the difference in March, including a water-supply system and two electric generating facilities.

Nonresidential building contracts, valued at $2,191,-077,000, were 24% above their weak year-ago total. On a seasonally-adjusted basis, however, nonresidential building declined sharply in March from its record rate in February 1970. Commercial building held steady while industrial construction contracting fell back sharply from the surge in February. Institutional building also eased after a strong February showing.

Residential contracts showed no improvement over the previous month, after seasonal adjustment. However, both months ran slightly ahead of January, the weakest month in over two years for the contracting of new dwelling units. Contract value in March was $1,974,169,000 and exceeded the year-ago March total by 1% due to a sizeable increase in nonhousekeeping building.

FIRST QUARTER 1970 — Nonresidential, $6,620,-107,000, up 15%; Residential, $4,889,622,000, down 11%; Nonbuilding, $4,656,171,000, up 23% = Total Construction, $16,165,900,000, up 7% over the $15,060,147,000 reported for the first quarter of 1969. The 7% "gain" reflects little more than the increase in construction costs since this period a year ago.

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Executive Changes at R/M

Following the annual stockholders' meeting on April 7, 1970, the following changes in key executive positions were announced by William S. Simpson, President and Chief Executive Officer, Raybestos-Manhattan, Inc.: *S. Ralph Zimmerman, Jr.*, Chairman of the Board; *David F. Calliari*, Vice President of Finance and Treasurer; and *Dr. Eugene P. Stefl*, Director (Dr. Stefl is Group Vice President of Operations for Raybestos).

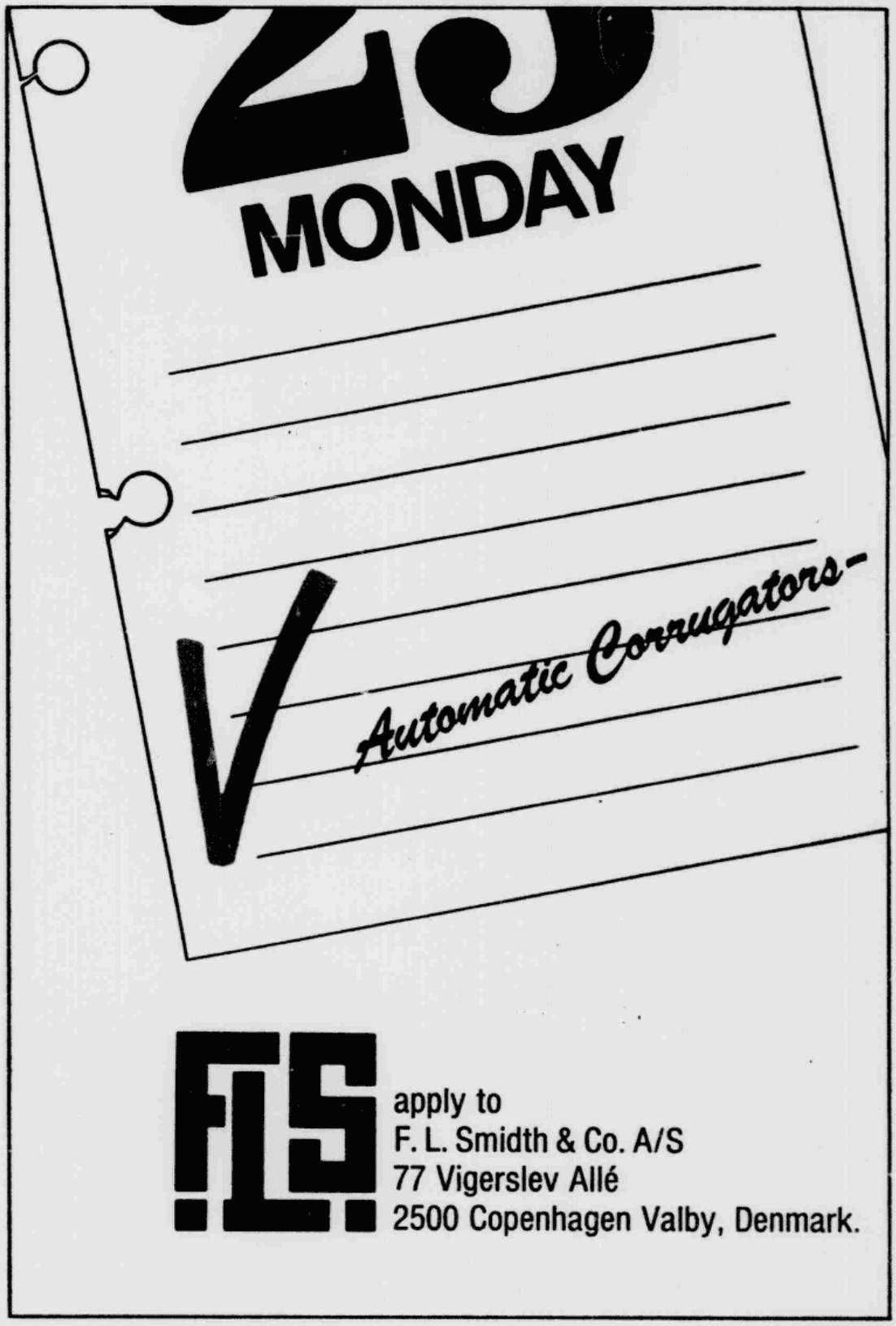
Mr. Zimmerman had been Executive Vice President at R/M since 1961. Mr. Calliari was formerly Treasurer and Chief Financial Officer.

All incumbent directors were returned to the Board with the exception of *John H. Matthews, William H. White and Joseph N. Kuzmick*, all of whom reached mandatory retirement age.

FREIGHT RATE INCREASES—The filing with the Canadian Transport Commission of selective increases in rail freight rates for traffic carried within most of Canada under normal and competitive tariffs was announced, December 29, 1969, by the *Railway Association of Canada*. The new rates, which do apply to *asbestos commodities* moved within Canada, became effective March 1, 1970, and were applied by 15 railways including Canadian National and CP Rail. The new rates superseded the temporary increases of 2% and 4% that were applied to competitive and normal tariffs last September and that expired February 28, 1970.

The adjustments are designed to have a relatively lower impact on long-haul shipments than on short-haul shipments. Compared with the levels in effect in December, the new rates represent an average increase of 3% to shippers. This is expected to produce an additional yield to the railways of approximately $13 million or 1% of their total annual freight revenue. The new rates will affect about 35% of all freight traffic moved by Canadian railways and were established to help offset higher operating costs.

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MARKET CONDITIONS

General Business.

The world political situation shows little or no change for the better. The successful orbiting of a satellite by Red China indicates that, within a matter of years, that country will develop a nuclear weapons capability which could threaten the entire world.

Considering the current situation where so many "limited" wars are in progress or threatened, the specter of an all-out nuclear holocaust is a bit too much to bear at this point.

First quarter earnings reports of many corporations reflect, all too clearly, the growing squeeze on profits now being experienced. While lower sales of many companies are the order of the day, even those fortunate enough to have achieved sales increases are, in general, reporting lower profits.

As general business slacks off, there are increasing pressures for Government to relax some of the fiscal and monetary measures which are contributing directly to the cooling of the economy. However, as previously noted, upward pressure on prices continues almost unabated and, in many industries, where new labor contracts call for substantial wage increases there seems no choice but to pass these increased costs along to the customer in the form of higher prices.

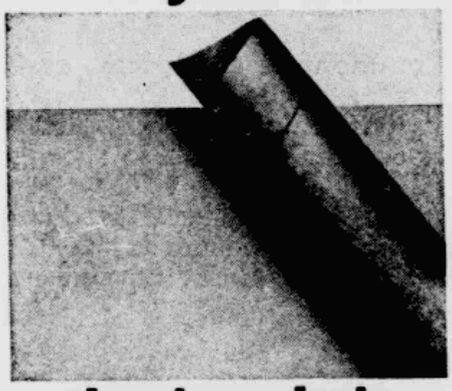
Automobile Sales

FEBRUARY 1970 motor vehicle factory sales from plants in the *United States* totaled 687,305 (passenger cars, 555,174; trucks and buses, 132,131). The total for February 1969 was 864,740.

Motor vehicle factory sales from plants in *Canada* totaled 101,994 for FEBRUARY 1970 compared to 99,084 in February 1969.

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E. B. Taylor Company

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Holanda, Colombia, S.A.

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PRODUCTION - IMPORTS - EXPORTS

Australia—According to the Commonwealth Bureau of Census and Statistics, Canberra, imports of asbestos for the *First Nine Months of 1969* totaled 44,823 short tons, valued at $5,547,000. The figures for the same period the previous year were 47,223 short tons, valued $5,923,000.

The amount of non-acoustic, asbestos-cement sheets produced in Australia during the *First Nine Months of 1969* reached 29,025,000 square yards, compared to 28,487,000 square yards for the like period in 1968.

Canada—Producers' shipments of asbestos during *December 1969* totaled 169,260 short tons (138,354 tons from Quebec plants and 30,906 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for December 1968 was 166,524.

Total shipments for the *Year 1969* reached 1,576,876 short tons (1,343,207 tons from plants in Quebec and 233,669 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The Year 1968 total was 1,509,699 tons.

The list of reporting firms include Advocate Mines Ltd., Asbestos Corporation Ltd., Bell Asbestos Mines Ltd., Canadian Johns-Manville Co. Ltd., Canadian Refractories Ltd., Carey-Canadian Mines Ltd., Cassiar Asbestos Corporation Ltd., Flintkote Mines Ltd., Hedman Mines Ltd., Lake Asbestos of Quebec Ltd., National Asbestos Mines Ltd., and Nicolet Asbestos Mines Ltd.

Canada imported 1,929,897 square feet of vinyl-asbestos floor and wall tile, valued at $126,000, for the *Year 1969*. The figures for the Year 1968 were 434,763 square feet, valued at $41,000.

The December 1969 issue of ASBESTOS published erroneous import figures for the *First Half of 1969*. The correct amount of vinyl-asbestos floor and wall tile imported should have read 1,134,801 square feet, valued at $69,000.

(The above quoted figures on producers' shipments of Canadian asbestos fiber and Canadian tile imports were supplied by the Dominion Bureau of Statistics, Ottawa.)

Italy—The following data concerning asbestos was excerpted from a report titled "The Italian Mining Industry 1968" from the American Embassy, Rome, to the U. S. Department of State.

During recent years there has been a substantial increase in the production of asbestos. In 1968 output rose 2.6% to 103,437 metric tons. However, the increase was not sufficient to fill the domestic demand and significant increases in imports were recorded—51,272 tons, up 13% from the previous year, principally from the Republic of South Africa, Canada and the USSR. Exports of asbestos in 1968 totaled 41,828 tons (mostly to West Germany, France and the Netherlands), compared to 34,026 tons in 1967.

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Imports Into U.S.A.

(Figures from U.S. Bureau of the Census)

Short Tons

Unmanufactured Asbestos:	NOV. '69	DEC. '69
Amosite, South Africa	750	1,797
Crocidolite (Blue), South Africa	370	1,033
Chrysotile, Crude, Canada	..	56
South Africa	410	250
Chrysotile, Spinning Fibers, Canada	910	1,538
Chrysotile, Other, Canada	44,220	58,973
Portugal	..	30
United Kingdom	..	205
Other Crudes & Fibers, Canada	381	475
Finland	424	242
Portugal	5	..
South Africa	131	..
	47,601	64,599

November unmanufactured asbestos imports were valued at $5,154,865.

December unmanufactured asbestos imports were valued at $7,922,133.

Manufactured Asbestos Goods:		NOVEMBER 1969	
Asbestos Yarn, Slivers, etc.	Lb	186,137	$104,927
A-C Pipes, Tubes & Fittings	Lb	3,939,955	174,051
Asbestos-Cement Articles, Other	Lb	1,568,182	198,826
Asbestos Articles, Other		..	119,429
			$597,233

		DECEMBER 1969	
Asbestos Yarn, Slivers, etc.	Lb	198,486	$150,766
A-C Pipes, Tubes & Fittings	Lb	1,680,633	78,593
Asbestos-Cement Articles, Other	Lb	1,185,494	197,736
Asbestos Articles, Other		..	152,465
			$579,560

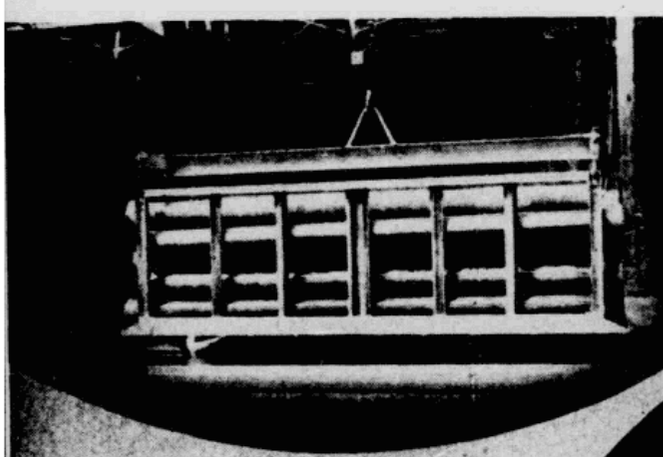
Anthophyllite in South Africa—According to the March 1970 issue of "Mineral Trade Notes," *Valley Asbestos (Pty.) Ltd.*, Johannesburg, has discovered an Anthophyllite asbestos deposit in the northern area of the Transvaal, Republic of South Africa. Drilling has commenced and the company expects to reach a decision, within the next two months, as to developing the property.

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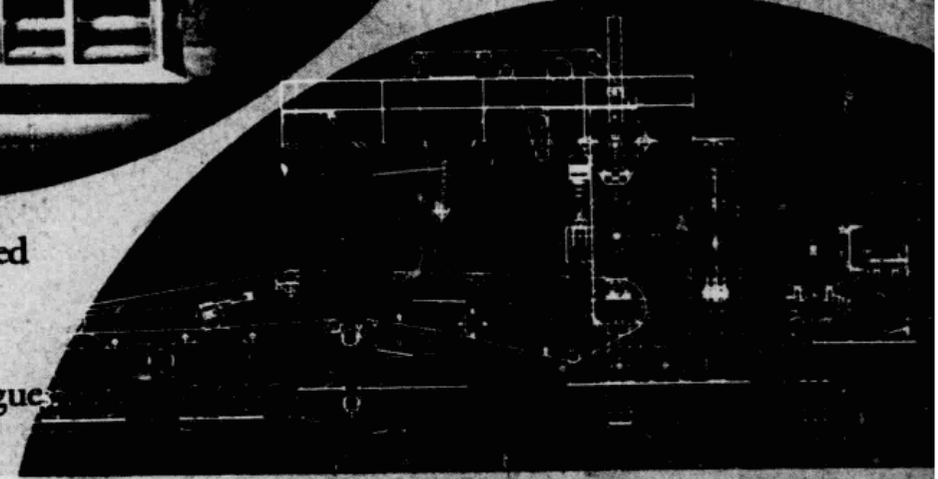


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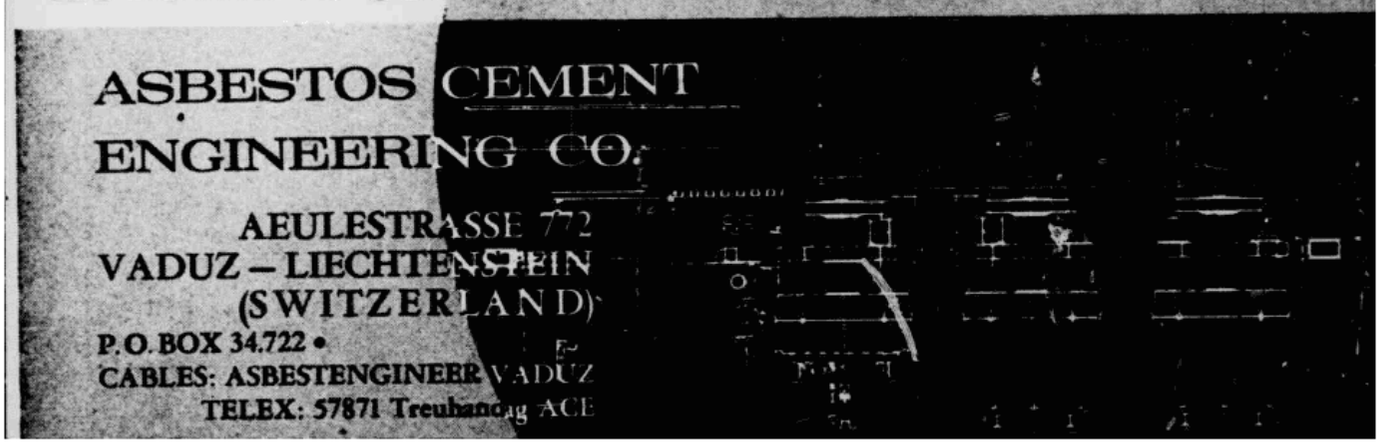


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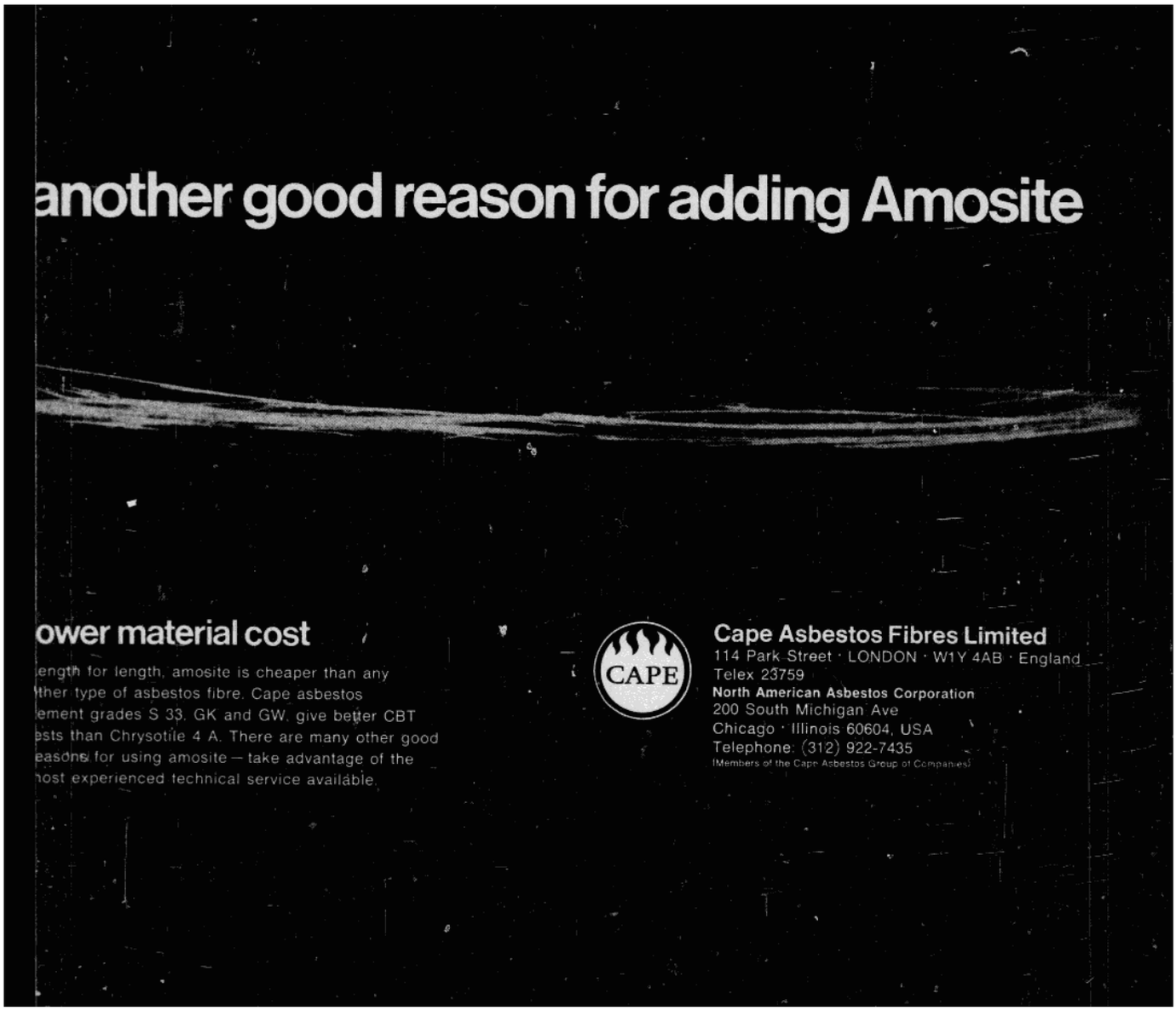
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Exports From U.S.A.

(Figures from U.S. Bureau of the Census)

		DECEMBER 1969	
Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	100	$ 23,155
Non-Spinning Fibers	s. tons	618	81,070
Waste & Refuse	s. tons	1,020	94,409
		1,738	$ 198,634
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,866,738	$ 167,322
Other Asbestos-Cement Articles	Lb	204,415	53,714
Gaskets & Packing	Lb	323,105	543,697
Textiles & Yarns	Lb	951,289	205,559
Mfrs. Other than Friction Materials		..	675,223
Cl. Facings & Linings for Auto. Use	No	150,502	171,724
Clutch Facings & Linings, Other	No	35,565	30,079
Brake Linings for Automotive Use	Lb	506,333	330,834
Brake Linings, Other	Lb	185,091	171,211
			$ 2,349,353
Unmanufactured Asbestos:			YEAR 1969
Crude & Spinning Fibers	s. tons	1,419	$ 313,878
Non-Spinning Fibers	s. tons	14,407	2,273,525
Waste & Refuse	s. tons	18,696	2,038,444
		34,522	$ 4,625,847
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	17,211,442	$ 1,598,591
Other Asbestos-Cement Articles	Lb	10,329,410	1,778,900
Gaskets & Packing	Lb	5,038,530	6,917,260
Textiles & Yarns	Lb	8,804,973	2,419,516
Mfrs. Other than Friction Materials		..	5,673,491
Cl. Facings & Linings for Auto. Use	No	2,833,561	2,459,037
Clutch Facings & Linings, Other	No	915,474	506,912
Brake Linings for Automotive Use	Lb	6,642,556	4,862,881
Brake Linings, Other	Lb	2,396,714	1,941,162
			$28,157,750

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Du PONT OF CANADA LIMITED, pages 46-47

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The Mineral Industry of Other Near East Areas—The import tables contain the only reference to asbestos. *Lebanon* imported 5,024 metric tons of asbestos in 1967 compared with 4,517 tons in 1966. The *Syrian Arab Republic* imported 1,108 metric tons of asbestos in 1967. The import figure for 1966 was 5,100 tons.

The Mineral Industry of Taiwan—Lacking extensive mineral resources, Taiwan's mineral industry has concentrated increasingly on processing imported raw materials to meet national needs. The fourth 4-year plan was successfully completed in 1968 with a gross national product preliminarily estimated at $3,809 million. This represented a 10.3% increase over 1967 and brought the average annual rate of expansion under the plan to about 10.5%, appreciably above the projected rate of 7% per annum. Mining and mineral-related manufacturing contributed production values of $89 million and $361 million, respectively, to the economy in 1968. Asbestos produced amounted to an estimated 1,200 metric tons in 1968, compared to 572 tons the previous year. Imports of asbestos reached 2,682 tons in 1967, principally from Canada and the Republic of South Africa.

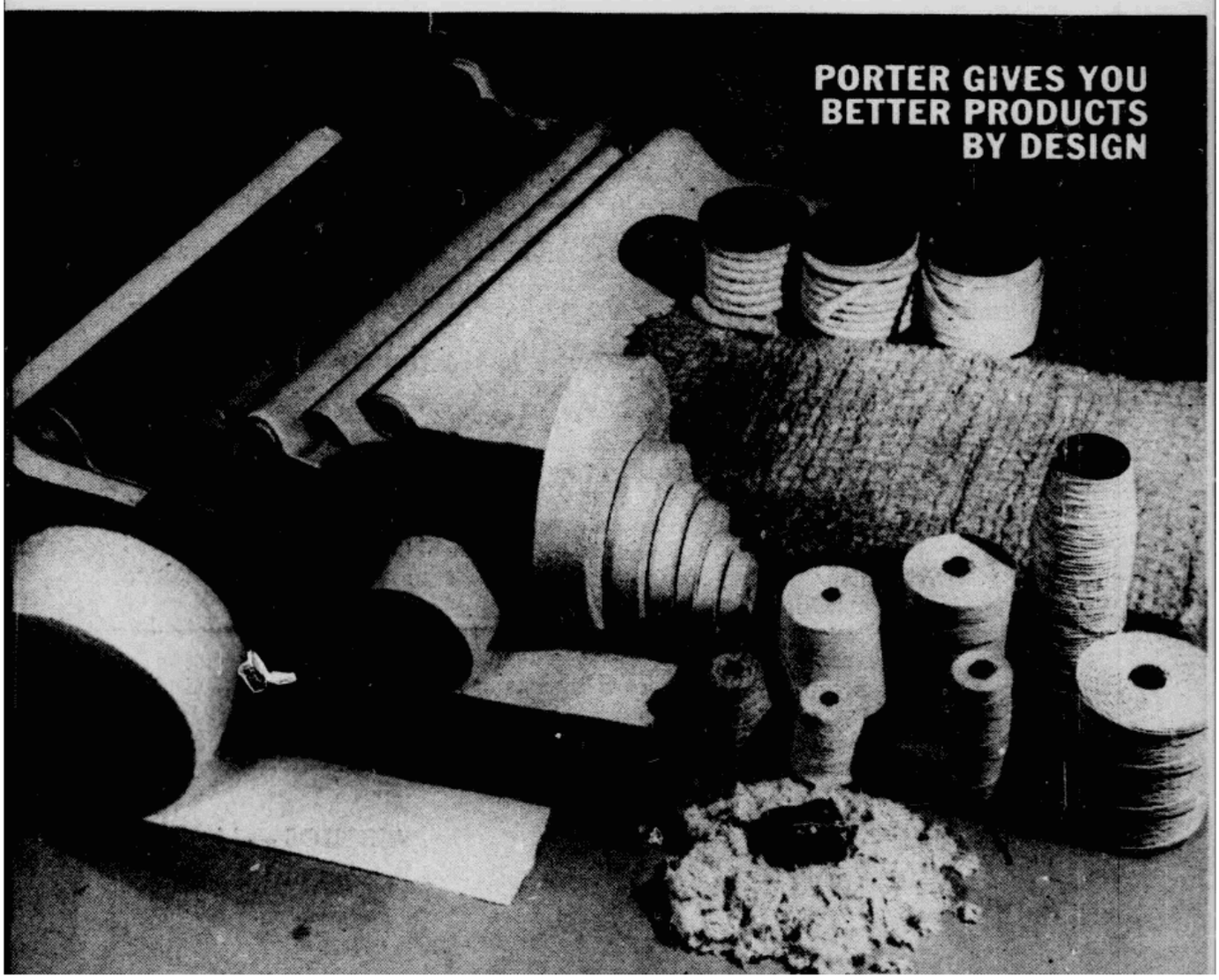
The Mineral Industry of Mainland China—By world standards, Mainland China continued to be an important mineral producer. Production of asbestos, mainly long fiber chrysotile, has been increasing in recent years. The Cultural Revolution, however, has held down production temporarily to possibly 150,000 metric tons per year. Nonetheless, Mainland China probably ranked within the first five world producers in 1968, providing possibly 4% of the world total. The bulk of the output came from Shihmien in Szechuan, where a dozen new projects were completed recently and a new large and high grade orebody was reportedly discovered. Normally a small exporter, the country made inquiries in 1968 about importation of Canadian asbestos. Chinese and Canadian asbestos experts have exchanged visits and the Chinese were interested in purchasing Canadian beneficiation equipment for Shihmien.

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INDUSTRY NEWS

HAPPY BIRTHDAY

John B. Jobe, Vice President for Industrial Divisions, Johns-Manville Corporation, New York City, June 16.

Gordon D. Parker, Chairman & Managing Director, British Uralite Ltd., Higham, Rochester, Kent, England, June 17.

William S. English, Vice President & Assistant General Manager, Sturtevant Mill Co., Dorchester, Massachusetts, June 19.

Erwin C. Gutzwiller, Corporate Director of Industrial Engineering, GAF Corporation, New York City, June 20.

Michael Prus, Vice President of Operations, Carey-Canadian Mines Ltd., East Broughton Station, P.Q., Canada, June 21.

Lee R. Anderson, President, Asbestos Products, Inc., St. Paul, Minnesota, June 22.

Frederick S. Daly, Vice President of Manufacturing, Raybestos-Manhattan, Inc., Bridgeport, Connectitcut, June 22.

J. W. Weber, President & Treasurer, American Asbestos Textile Corporation, Norristown, Pennsylvania, June 22.

C. Branton Wheatley, President & Treasurer, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, June 22.

Malcolm Meyer, Chairman & President, Certain-teed Products Corporation, Ardmore, Pennsylvania, June 23.

F. Pearson, Chairman, BBA Group Limited, Cleckheaton, Yorkshire, England, June 26.

Dr. Gordon Taylor, Executive Director, The Flintkote Co. Ltd., London, England, June 26.

Edward F. Briggs, General Marketing Manager-Aerospace, Industrial Insulations Division, Johns-Manville Corporation, New York City, June 27.

J. W. McCarvill, Vice President-Administration, Asbestos Corporation Ltd., Thetford Mines, P.Q., Canada, June 27.

Louis B. Stocks, Marketing Manager-Felt & Asbestos Products, GAF Corporation, New York City, June 27.

Julien O. Heppes, Vice President, Floor Products Division, GAF Corporation, New York City, June 28.

M. F. Howe, Managing Director, Turners Asbestos Fibres Ltd., Manchester, England, June 28.

G. A. F. Brink, Manager, Product Research & Development Dept., Asbestos Corporation Ltd., Thetford Mines, P.Q., Canada, July 2.

I. C. Campbell, Vice President & Secretary-Treasurer, Asbestos Corporation Ltd., Thetford Mines, P.Q., Canada, July 3.

D. L. Monroe, Mine Project Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, P.Q., Canada, July 3.

Arthur I. Rank, Jr., President, Universal Insulation Co., Philadelphia, Pennsylvania, July 3.

Donald H. Lyons, Director of Purchasing, Johns-Manville Corporation, New York City, July 5.

Howard E. Walker, Director of Research, The Flintkote Co., White Plains, New York, July 5.

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Frank T. Campagna, Director of Marketing, Industrial Products Division, GAF Corporation, New York City, July 6.
S. David Skinner, Vice President-Engineering, National Gypsum Co., Buffalo, New York, July 6.
Gordon Read, Vice President & Director for Far Eastern Operations, Johns-Manville Corporation, New York City, July 7.
B. Kovacs, Production Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, July 9.
Donald L. Andrew, Assistant Secretary, Philadelphia Asbestos Corporation, Philadelphia, Pennsylvania, July 11.
Jack R. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, July 11.
W. L. Giachino, Mine Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, B.C., Canada, July 13.
John F. Sullivan, Jr., President & Treasurer, Asbestos & Magnesia Materials Co., Chicago, Illinois, July 13.
Carlo M. Weber, Product Manager, Asbestos-Cement Products, Philip Carey Company, Cincinnati, Ohio, July 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

A Research Task Group has been organized by ASTM Committee D-30's *Subcommittee III on Asbestos and Naturally Occurring Fibers*. The Group is under the Chairmanship of Dr. J. W. Axelson and is charged with the task of investigating the degree of fiberization of asbestos and promoting the advancement of knowledge in this area. Those interested should communicate with Dr. Axelson at the Johns-Manville Research Center, Manville, New Jersey 08835.

Index of Standards and Specifications as of January 1970 is now available from the *Canadian Government Specifications Board*, Ottawa, Canada. Included among the listings are Standards and Specifications for "Asbestos-Cement Products," (Group No. 34-GP) and for "Thermal Insulation for Boilers, Piping, Machinery and Associated Uses," (Group No. 51-GP).

Canadian Standards—The following Standards, effective February 1970, are available from the *Canadian Government Specifications Board*, Ottawa, Canada: No. 51-GP-9a, Standard for Thermal Insulation, Mineral Fiber, Sleeving for Piping and Round Ducting; No. 51-GP-10, Standard for Thermal Insulation, Mineral Fiber, Block or Board, for Ducting, Machinery and Boilers; and No. 51-GP-11, Standard for Thermal Insulation, Mineral Fiber, Blanket, for Piping, Ducting, Machinery and Boilers.

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ASBESTOS FIBRES

Asbestos Magazine, 1970, May 1970
ACL Doc 12637 · Page 38 of 59
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Abitibi Asbestos Mining Co. Ltd., in a letter to its shareholders in March, advised that test work is continuing at the Pilot Plant of the Department of Natural Resources, Quebec City, on bulk samples taken from underground at its asbestos property in Northwestern Quebec, Canada. To date, test results have been received on a total of 5 samples. Prior issues of ASBESTOS reported on test results of Samples 1, 2 and 3.

Sample No. 4, taken for 100 feet east of the north-south cross-cut, has a value of $9.32 per ton of rock. Sample No. 5, taken for 150 feet west of the north-south cross-cut has a value of $8.91 per ton of rock. Bulk sample test results to date, while not conclusive, indicate an increase in ore grade and value over drill hole results in the area from which the samples were taken.

With completion of the test work on Samples No. 6 and 7, sufficient information will be available to establish a reliable index factor, which will be applied to the diamond drill core results to arrive at the true rock value in terms of mill expectancy.

Golden Gate Report—The following information was excerpted from a Report by *Peter H. Sevensma Consultants Limited*, Supervisors of the 1969 exploration program undertaken on *Golden Gate Explorations Limited's* asbestos property at Haines Junction, Yukon Territory, Canada. The property is located six miles from the Haines Highway at a point less than 160 miles from the deep-water port of Haines, Alaska.

Cross fiber Chrysotile asbestos of excellent quality is found in what appears to be a fault block which offsets a tabular zone of serpentinized peridotite. The sub-outcrop area is shown to be somewhat limited although the absence of outcrop and the shallow hole data provide insufficient information on the shape, structure and lateral extent of the serpentinized zone. The higher fiber grades and substantially higher values obtained in the most recent test of the No. 2 anomaly (main zone) suggests that deeper testing be carried out.

Lateral limits of the serpentinized zone have now been established between 6+00 S and 3+00 N. While contacts appear gradational and fiber content is variable, it is within this zone that the known potential exists. The structure is open at both ends and the nature of the lower contact is unknown.

The most recent test and prevailing fiber prices suggest that at least part of the zone would prove economic if adequate tonnage could be established. A bulk sample from the fiber-bearing zone was taken from drill cores and submitted for analysis.

Preliminary results from the Quebec Standard Test of 128-lb. Sample No. 610-1 are: No. 1 fiber at $326.00, 1.39% or $4.53 per ton; No. 2 fiber at $195.00, 3.43% or $6.69 per ton; and No. 3 fiber at $63.00, 1.58% or 99¢ per ton. The total value per ton of rock is $12.21 based on the initial test and deeper testing will be required to obtain a representative sample.

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NOTES FROM 1969 ANNUAL REPORTS

ADVOCATE MINES LIMITED

The consolidated financial statements combine the accounts of Advocate Mines Limited with those of its wholly-owned subsidiary, Advocate Concessions Exploration Co. Ltd. Net income was $1,500,000 or 12¢ per common share after providing for preference dividends of $805,000 earned in 1969. This compares with 1968 net income of $1,257,000 or 8¢ per common share. Cash from operations was $2,805,000. After providing for fixed asset additions and for preference dividends, net cash flow was $1,375,000 or 23¢ per common share. Additions to plant and equipment amounted to $525,000.

Under an agreement dated September 29, 1958, Canadian Johns-Manville Co. Ltd. and Amet Corporation, Inc., receive, for management and other services, 6% and 3%, respectively, of Advocate's gross revenue from the sale of all fiber during each year that such services are rendered.

During the year, 1,784,727 tons of ore, 6,915,599 tons of waste and overburden and 174,431 tons of road rock were mined. This provided a total of 8,874,757 tons, with a waste-to-ore ratio of 3.96:1, against 4.15:1 in 1968. 1,758,518 tons of dry ore were delivered to the crushing and drying plant, with a recovery of 3.23%. Due to a strike from May 22 to July 31, the mill operated only 256 days, resulting in production of 55,435 tons of A-25 fiber, valued at $10,345,000 or $186.61 per ton. Shipments totaled 58,513 tons of A-25 fiber, 15% less than in 1968.

To provide for increased tonnages, three additional 50-ton trucks, a rubber-tired bulldozer and a rubber-tired tractor-shovel were purchased during the year. In addition, both 6-yard shovels have now been converted to 8-yard machines and a third rotary drill has been ordered.

A project is in progress to produce a Group VI, A-35 fiber. Design has been completed and installation of equipment has begun. Production is expected to commence in July and sales of 3,500 tons of fiber are planned for 1970.

At December 31, 1969, ore reserves amounted to 61,564,000 tons. Although no development drilling was accomplished during the year, the program of geological mapping and sampling was maintained with further development drilling, utilizing the rotary machines, planned for 1970.

NATIONAL GYPSUM COMPANY

Significantly lower selling prices in some major product lines and substantially rising prices of labor, purchased materials and supplies are clearly indicated by the rise in 1969 sales with no appreciable change in net earnings over the previous year. Operations were favorably influenced by production and distribution economies, effective cost reduction, growing market acceptance of new products and an increase in physical quantities of products sold resulting from stepped-up sales and merchandising effort.

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Asbestos in the Arctic.

When the SS *Manhattan* explored a year 'round tanker route to the Alaskan North Slope oil fields, asbestos was aboard.

Asbestos fibers added increased strength and fire-safety to J-M Metal-On® (aluminum jacketed calcium silicate pipe insulation) used to protect the ship's external deck piping.

The excellent insulating characteristics of this asbestos-bonded insulation kept liquids flowing in the minus 50°F Arctic temperatures.

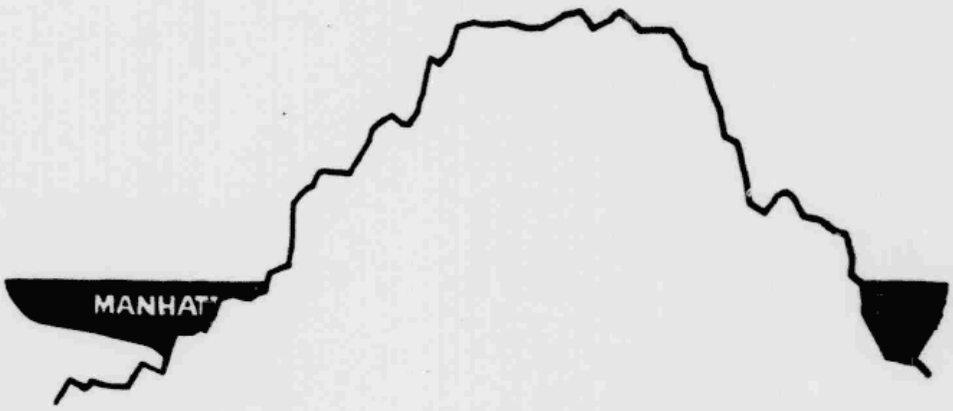
Chemically stable and resistant to water damage, asbestos will neither burn nor rot. And it easily withstands severe atmospheric changes.

J-M asbestos insulation is at work helping to solve many kinds of temperature control problems. Hot and cold.

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fiber Sales, Manville, N.J. 08835 U.S.A.

JM

Johns-Manville



Operations for 1969 resulted in consolidated net sales of $343,836,000, up from $316,660,000 in 1968. Net income of $20,418,000 or $1.36 on average shares outstanding compares with 1968 results of $20,423,000 or $1.37 per share on average shares outstanding. Cash flow from operations, including net income, depreciation, depletion and deferred taxes, amounted to $40,534,000 or $2.72 per share in 1969 compared with $41,095,000 or $2.80 per share in 1968. As the result of $20,230,000 worth of investments in other companies, working capital decreased $16,039,000. Capital expenditures for new plants and facilities modernization totalling in excess of $20 million were made during 1969 in preparation for anticipated higher product demand in the years ahead, as well as to increase efficiency, to improve profitability, and to capitalize on successful new products and broadened market opportunities.

Hamilton of Indiana, Inc., a manufacturer of tempered glass and mirrors, was acquired on February 3, 1970, and will be operated as a subsidiary of the Binswanger Glass Division. During the year National Gypsum purchased additional shares of the common stock of H. H. Robertson Company, resulting in ownership of 25.5% of the outstanding shares of such stock. H. H. Robertson Company manufactures, erects and sells metal building products used primarily in commercial, industrial and institutional construction.

Plant construction and expansion projects during the year included the start up of the new paper mill in Pennsylvania, added capacities at the Lansdale, Pennsylvania, and Lewisport, Kentucky, tile plants, increased capacity for the production of vinyl wallcoverings, installation of new facilities for improved customer service at the Fort Dodge, Iowa, and Long Beach, California, gypsum plants and detailed planning for additional distribution warehouses for gypsum products.

Regarding 1970—The national housing inventory of available living units has never been lower and the need for housing has never been greater. The unsatisfied demand continues to increase and will do so until the inflationary pressures ease and construction and mortgage money become more readily available. Significant challenges to be resolved in the years ahead include realistic national standards in building codes, adequate supply of skilled construction labor, capital expenditures for socially-desirable, but non-profit-producing, air and water pollution abatement facilities, rehabilitation of our inner cities and new methods and techniques for producing good quality, low-cost housing.

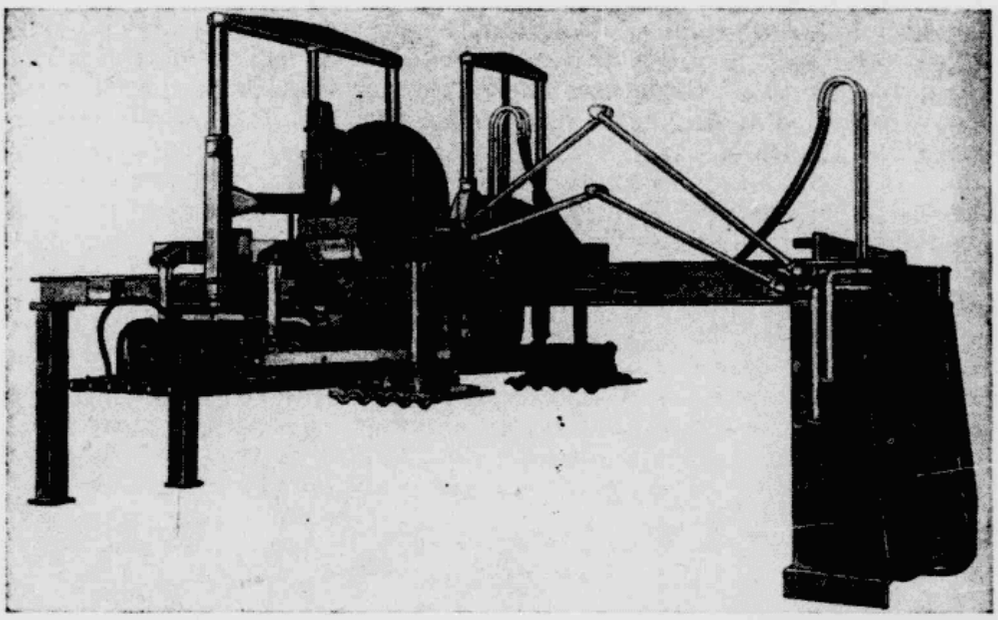
H. K. PORTER COMPANY, INC.

The severe cost squeeze continued through 1969. As a result, profits for the year were seriously depressed and certain of these problems are still present. Despite the reverses experienced, income from operations, before taxes, depreciation, and extraordinary items, was higher than in 1968. Net sales were $289,838,712 compared to $279,121,958 in 1968. Net earnings amounted to $4,113,231, including an extraordinary income credit, net of taxes, of $213,652. Net earnings in 1968 were $3,830,210.

In February, H. K. Porter acquired the Tallman-McCluskey As-

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bestos Fabrics Co., St. Louis, Missouri, thereby gaining a fully integrated asbestos yarn and cloth plant. The acquisition complements present lines of plants in the Thermoid Asbestos Group and, in addition, permits better customer service to the Gulf and West Coast regions.

H. K. Porter Company (Canada) Ltd. acquired the Cansfield Electrical Works Limited, Toronto, a manufacturer of distribution and power transformers, and Shurly-Dietrich-Atkins Company Limited, the only Canadian manufacturer of jig and reciprocating saw blades.

Within the Fabricated Metals Division, the Stuarts Draft copper tube mill was sold and the Prentiss Works ceased operation. Major equipment was transferred to the Alloy Works and to the Riverside Works. The Christy Works of the Refractories Division was also sold.

Capital expenditures for plant and equipment during 1969 totaled $9,350,000. Each domestic division as well as the international operations shared in the expenditures. The Bellefontaine, Ohio, plant of the Thermoid Division started up during 1969, and is manufacturing a number of hose products. Additional equipment for molded curing of open-cell sponge products was installed at Brown Rubber Works; Nephi Works added three new impulse testing units; and the Charlotte Works installed additional equipment for the manufacture and treating of various grades of cloth.

Asbestos Group, Thermoid Division—New products introduced in 1969 were rewettable lagging brattice cloth for the commercial insulation field; Therm-O-Guard aluminized asbestos for the safety clothing field; and Lint-Free Knitted Portersite Felt, a product that reduces lint and dust by up to 50%. In anticipation of increased demands for more sophisticated asbestos products, new equipment has been installed to increase manufacture and treating of certain cloth grades. Since a demand is expected for asbestos products in the shipbuilding, dryer felt, mechanical packing, and safety clothing industries, improvements are being made in the nationwide distribution system, and Research and Development programs are concentrating on key areas.

Survey of Mines, 1970, is now available, at $8.00 per copy, through ASBESTOS Magazine or direct from the publishers: The Financial Post, 481 University Avenue, Toronto 101, Ontario, Canada. Investors will find this 44th edition of the Survey contains authoritative information on nearly 3000 active mining companies. The producing companies are covered in ample detail; i.e., production, earnings, ore reserves, dividends paid, and exploration and development activities. Also included are valuable data on more than 4000 companies that are out of business, or have reorganized or merged into other firms. General statistical information includes price ranges of listed shares for the past 8 years, production and prices of metals and minerals in Canada, a listing of the principal milling plants, a 32-page map section and a 3-page professional directory.

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Suppliers of Raw Asbestos



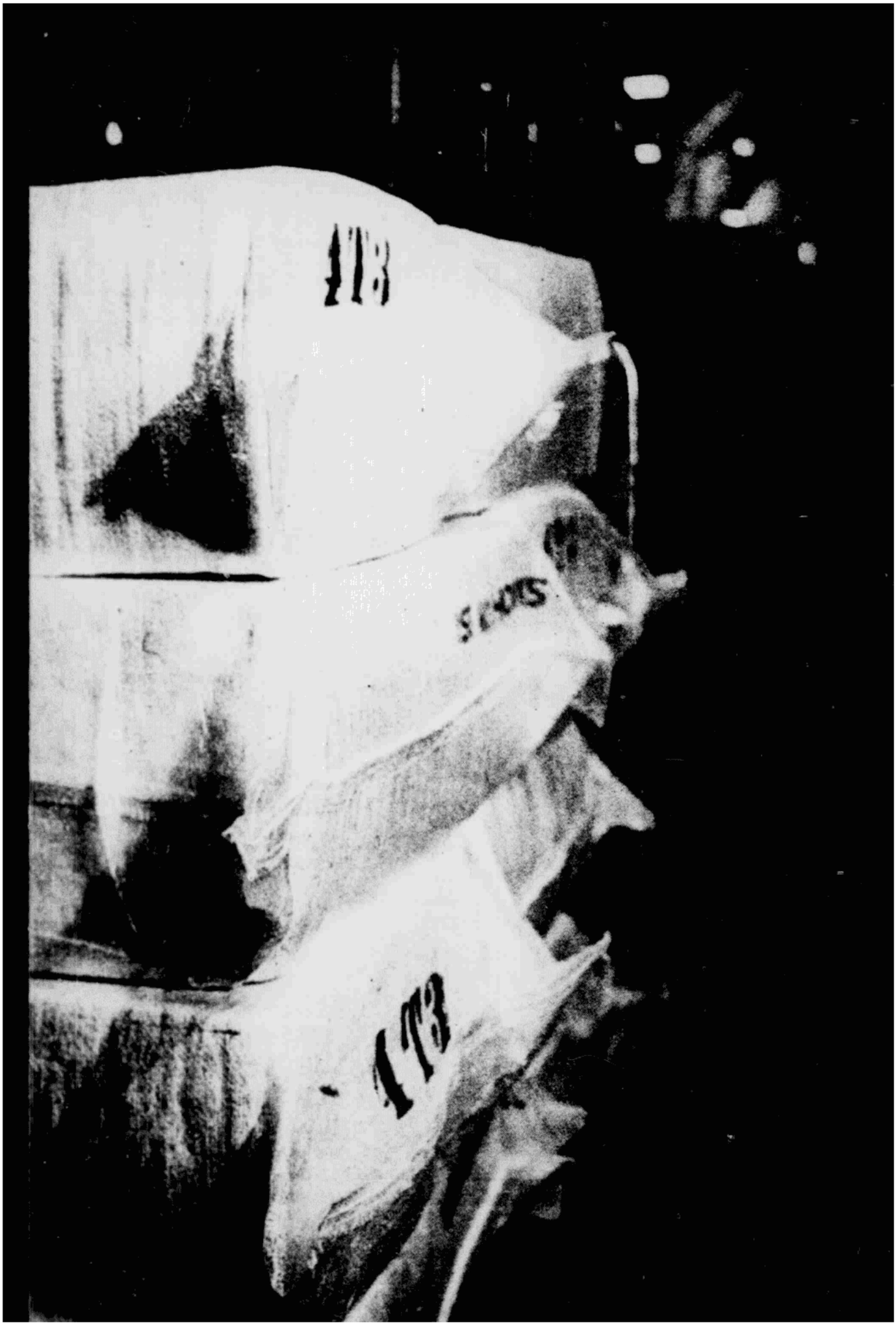
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173
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'FABRENE'
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PERSONNEL NEWS

CERTAIN-TEED PRODUCTS CORPORATION

H. W. McCurley was appointed Vice President of Operations for Certain-teed Badger Services, Inc., Beaumont, Texas. He was formerly President of Gulfline Constructors, Inc. and of Space Age Leasing Company.

NATIONAL GYPSUM COMPANY

Roswell C. Goerbing was elected Vice President-Corporate Controller. He joined National Gypsum in 1941.

Robert E. Scifres is now Corporate Vice President and Assistant to the Chairman of the Board. He joined National Gypsum in 1942 and served in a number of engineering, production and plant management assignments in the Building Products Division prior to his advancement in 1964 to Vice President-Manufacturing, Huron Cement Division. Since 1967 he has served as General Manager of a Government-owned plant in Parsons, Kansas, operated by National Gypsum for the U.S. Government.

NICOLET INDUSTRIES, INC.

Within the Gasketing Division, *Thomas M. Francis* was named Northeastern District Sales Manager and *Cecil S. Adams* is the new Southwest District Sales Manager. They will be responsible for the sales and distribution of Nicolet's line of gasketing products including compressed asbestos sheet packing and beater-addition asbestos gasketing materials.

H. K. PORTER COMPANY, INC.

Richard Hein is now District Manager of West Coast Textile and Friction Sales for the Thermoid Division. Based in Los Angeles, California, he is responsible for sales functions in eleven western States. He joined Porter in 1968 as a Sales Representative.

RAYBESTOS-MANHATTAN, INC.

Four new Divisional Managers were announced: *Robert L. Cleveland, Jr.,* General Manager of the Raybestos Division, Stratford, Connecticut; *Anthony R. Patterson,* General Manager of the Manhattan Rubber Division, Passaic, New Jersey; *Gregory Scripp,* General Manager of the Wabash Division, Crawfordsville, Indiana; and *Kenneth A. Gainer,* Assistant General Manager of the U. S. Asbestos Division, Manheim, Pennsylvania.

William A. Mitchell has been appointed to the new position of Market Development Manager, Asbestos Textile Division. He will be located at Corporate headquarters and will devote most of his time to the investigation and development of markets for the Division's new products.

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ASBESTOS STOCK QUOTATIONS

Close—April 24, 1970

Abitibi Asbestos	*$5.70
Advocate	**$2.30
Asarco	28¼
Armstrong Cork	27⅞
Armst Cork (pfd 3.75)	53½
Asbestos Corporation	*$26.00
Bendix	25⅞
Bendix (pfd 3)	45
Carlisle	12½
Cassiar Asbestos	*$19.50
Certain-teed	20
C-teed (pfd .90)	21¾
Conwest	*$11.50
Flintkote	23
F-kote (pfd-A 4.50)	73¾
F-kote (pfd-B 2.25)	33
GAF	12⅛
GAF (pfd 1.20)	19¾
Garlock	17⅝
Glen-Alden	6⅞
G-Alden (pfd 3.15)	54¼
G-Alden (pfd 3)	51
G-Alden (pfd 2.25)	32
Grace	25
Gulf & Western	14⅜
G&W (pfd 1.75)	46½
G&W (pfd 3.50)	61
G&W (pfd 3.87)	43
G&W (pfd 5.75)	62⅞
Illinois Central	28½
Ill. Central (pfd 3.50)	51
Johns-Manville	30⅜
Maremont	10⅛
National Gypsum	20⅛
Natl Gypsum (pfd 4.50)	61
Panacon	3⅝
Patino	*$45.00
Porter (pfd 5.50)	66¼
Raybestos-Manhattan	41¾
Unarco	9⅞
Union Carbide	35
Uniroyal	15⅛
Uniroyal (pfd 8)	101
United Asbestos	3½

*Canadian currency

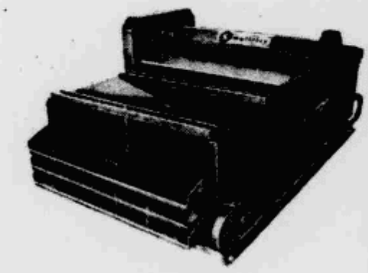
**Canadian currency; Close—April 28

(Source: The Wall Street Journal)

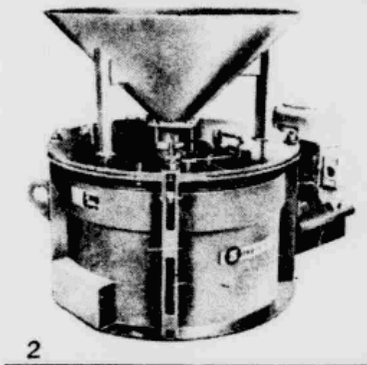
Licensing Opportunity—The American Consul, Brisbane, Australia, advises that *Pettigrew Engineering Co. Pty. Ltd.*, 35 Cavendish Road, Coorparoo, Brisbane, desires to manufacture package-type sewage treatment plants under license. The company presently manufactures and installs sewage and waste treatment equipment and has received an increasing number of requests for the supply and installation of package-type plants. Pettigrew indicated the cost of each plant might vary from $2,000 to $45,000 (in U.S. currency).

Cross-Licensing Opportunity—According to the American Consul, Marseille, France, *Somefi Fabrications*, 165 rue du Rouet 13, Marseille 8eme, is seeking a cross-licensing agreement with an American manufacturer. A manufacturer of material handling equipment, Somefi wishes to build chain conveyors of medium capacity and bucket elevators under American licenses. The firm also would like to obtain a U. S. licensee for its small chain conveyor (patented in July 1962 under U. S. Patent No. 3,015,808).

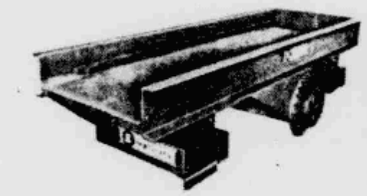
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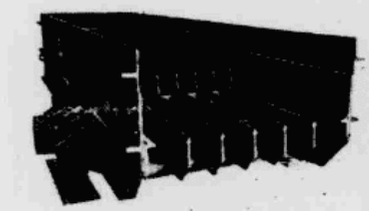
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Dealers and Licensees throughout the world

Asbestos Magazine, 1970, May 1970
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ASBESTOS PRICES

ARIZONA

Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of August 1, 1968) — U.S. Dollars

No. 1 Crude	$1,410.00 — $1,650.00
No. 2 Crude	700.00 — 950.00
AAA	.. 800.00
Group No. 3 (Non-Ferrous Filtering-Plastic)	425.00 — 700.00
Group No. 4 (Non-Ferrous Filtering-Plastic)	400.00 — 500.00
Group No. 5 (Non-Ferrous Filtering-Plastic)	385.00 — 425.00
Group No. 6 (Non-Ferrous Plastic)	.. 250.00
Group No. 7 (White Shorts)	65.00 — 90.00

CANADA

Per Ton of 2,000 lbs., f.o.b. Mine

(As of January 1, 1970) — Canadian Currency

Crude No. 1	$ .. $1,525.00
Crude No. 2	.. 825.00
No. 3 (Spinning Fiber)	397.00 — 650.00
No. 4 (Shingle Fiber)	218.00 — 369.00
No. 5 (Paper Fiber)	157.00 — 184.00
No. 6 (Waste)	.. 114.00
No. 7 (Refuse, Shorts)	48.00 — 95.00

CASSIAR

Per Ton of 2,000 lbs., f.o.b. North Vancouver, B.C.

(As of January 1, 1969) — Canadian Currency

AAA Grade (Non-Ferrous Spinning Fiber)	$ 845.00
AA Grade (Non-Ferrous Spinning Fiber)	673.00
A Grade (Non-Ferrous Spinning Fiber—Canadian Group 3)	508.00
AC Grade (Asbestos-Cement—Canadian Group 4)	363.00
AK Grade (Shingle Fiber—Canadian Group 4)	249.00
CP Grade (Shingle Fiber—Canadian Group 4)	234.00
AS Grade (Shingle Fiber—Canadian Group 4)	217.00
CT Grade (Shingle Fiber—Canadian Group 4)	211.00
AX Grade (Shingle Fiber—Canadian Group 5)	193.00
CY Grade (Shingle Fiber—Canadian Group 5)	136.00
AY Grade (Shingle Fiber—Canadian Group 5)	136.00

VERMONT

Per Ton of 2,000 lbs., f.o.b. Morrisville, Vermont

(As of January 1, 1970) — U. S. Dollars

Group No. 3 (Spinning & Filtering Fiber)	$ 366.50 — $ 393.50
Group No. 4 (Shingle Fiber)	201.00 — 341.00
Group No. 5 (Paper Fiber)	145.00 — 170.00
Group No. 6 (Waste)	.. 105.00
Group No. 7 (Shorts, Floats)	48.00 — 87.50
Hooker No. 1 (Packaged in 50-lb. Burlap Bags)	.. 402.00
Hooker No. 2 (Packaged in 100-lb. Burlap Bags)	.. 201.00

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of

Screens, Aspirators, Fiberizers, Willows, Dusters, Graders, Mixers, Pressure Packers, Samplers, Weigh Hoppers, Bag Tilters.

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Remittance should be in coin, currency, or check and the number of the patent, name of inventor and date of issue should be shown.

U.S. Patents issued from March 17 through April 7, 1970

3,503,841—Foamed Polystyrene Bonded to Fiber-Filled Polyvinyl Chloride Sheet, R. W. Sterrett (assigned to W. R. Grace & Co., New York City), March 31.

3,503,921—Polyester Premix Containing Polystyrene & Monomeric Styrene, A. Souza, Jr., A. R. Kurkowski & A. M. Thornton, Jr. (assigned to W. R. Grace & Co., New York City), March 31.

3,505,200—Anthophyllite Asbestos Diaphragm for Chlor-Alkali Electrolytic Cells, M. P. Grotheer (assigned to Hooker Chemical Corporation, Niagara Falls, New York), April 7.

U.S. Reports, as listed below, are available at $3.00 per paper copy and 65¢ per microfiche from the Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151. Prepayment is required.

AD 680 285—Static and Dynamic Viscoelastic Behavior of Fiber Reinforced Materials and Structures, by the Franklin Institute Research Laboratories, Philadelphia, Pa., for the U.S. Army.

AD 696 635—Combating Pollution Created by Oil Spills, Volume One: Methods, by Arthur D. Little, Inc. for the U.S. Coast Guard.

AD 695 876—The Spread of Oil Slicks on a Calm Sea, by the Massachusetts Institute of Technology, Cambridge, Massachusetts.

AD 697 690—Study of the Applications of Fibrous Composites to Deep Submergence Shell Structures, by General Electric Company, King of Prussia, Pa., for the U.S. Navy.

AD 697 956—Aerospace-AFML Conference on NDT of Plastic/Composite Structures, by the Air Force Materials Laboratory, Wright-Patterson Air Force Base, Ohio.

AD 698 031—The Fracture Energy of Composite Materials, by the University of Vermont, Burlington, for the U.S. Army.

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BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is *our* subject.

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Remember When?

(May 1920 ASBESTOS)

New Advertisers: Edward H. Garcin & Co., Inc.; John A. Hovey; E. Schaaf-Regelman.

ASBESTOS announced the death of Mr. Charles Francis Sloane which occurred, suddenly, in Globe, Arizona, where he was preparing to visit his extensive asbestos properties in that area. Mr. Sloane was recognized as the leading authority on the Arizona asbestos deposits.

In a short article on the value of group insurance it was pointed out that the *H. H. Robertson Co.* had instituted a plan, some five years previously, under which each employee, after one year of service, received a life insurance policy with a face value equal to one-year's salary.

A shortage of railroad cars was reported as seriously limiting shipments of asbestos from Canadian mines to users in the U.S. Average shipments from Canada to this country required from 600 to 700 cars per month and the mines were actually getting only about one fifth that number. Some American users were consigning carloads of coke, machinery and sometimes only junk, to Canadian mines so the cars could be loaded with asbestos and returned to the consignor. Expensive, but possibly better than being forced to shut down a manufacturing operation.

Consolidated Asbestos, Ltd., declared an initial quarterly dividend of 1¼ per cent on its common stock.

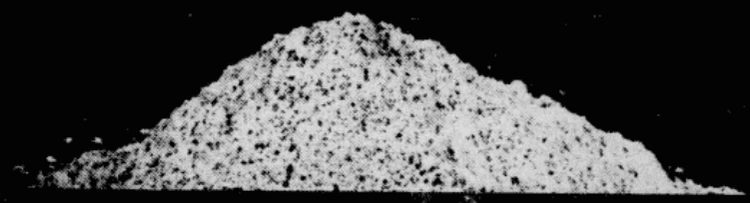
H. E. Peters, Secretary-Treasurer of Bennett-Martin Asbestos & Chrome Mines, Ltd., died on April 11.

Roy A. Smith, formerly connected with the manufacturing organization of Keasbey & Mattison Co. was assigned to handle sales for the company in Western New York, Ohio and parts of Canada.

It was reported that C. B. Manville of the H. W. Johns-Manville Co. was investigating mining properties in the Union Pass District of Arizona.

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Baltimore	A. B. Kohl Sales Co.
Birmingham	Thompson-Hayward Chem. Co.
Brooklyn	Smith Chem. & Color Co.
Buffalo	Commercial Chemicals, Inc.
Chicago	Chicago Firebrick Co.
Cleveland	Donald McKay Smith, Inc.
Dallas	Thompson-Hayward Chem. Co.
Davenport, Iowa	Thompson-Hayward Chem. Co.
Denver	Plateau Supply Co.
Des Moines	Thompson-Hayward Chem. Co.
Detroit	A. E. Fleming Co.
Hallandale, Fla.	Thompson-Hayward Chem. Co.
Houston	Thompson-Hayward Chem. Co.
Huntsville, Ala.	Thompson-Hayward Chem. Co.
Indianapolis	Thompson-Hayward Chem. Co.
Kans. City, Mo.	Thompson-Hayward Chem. Co.
Little Rock	Thompson-Hayward Chem. Co.
Los Angeles	E. S. Browning Co.
Memphis	Thompson-Hayward Chem. Co.
Minneapolis	Thompson-Hayward Chem. Co.
Mobile	Thompson-Hayward Chem. Co.
Montgomery, Ala.	Thompson-Hayward Chem. Co.
Nashville	Thompson-Hayward Chem. Co.
New Orleans	Thompson-Hayward Chem. Co.
Oklahoma City	Thompson-Hayward Chem. Co.
Omaha	Thompson-Hayward Chem. Co.
Philadelphia	George A. Rowley & Co., Inc.
Pittsburgh	McCann-Shields Paint Co.
Shreveport	Thompson-Hayward Chem. Co.
St. Louis	Thompson-Hayward Chem. Co.
San Francisco	E. S. Browning Co.
Tampa	Thompson-Hayward Chem. Co.
Trenton, N. J.	H. M. Royal, Inc.
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