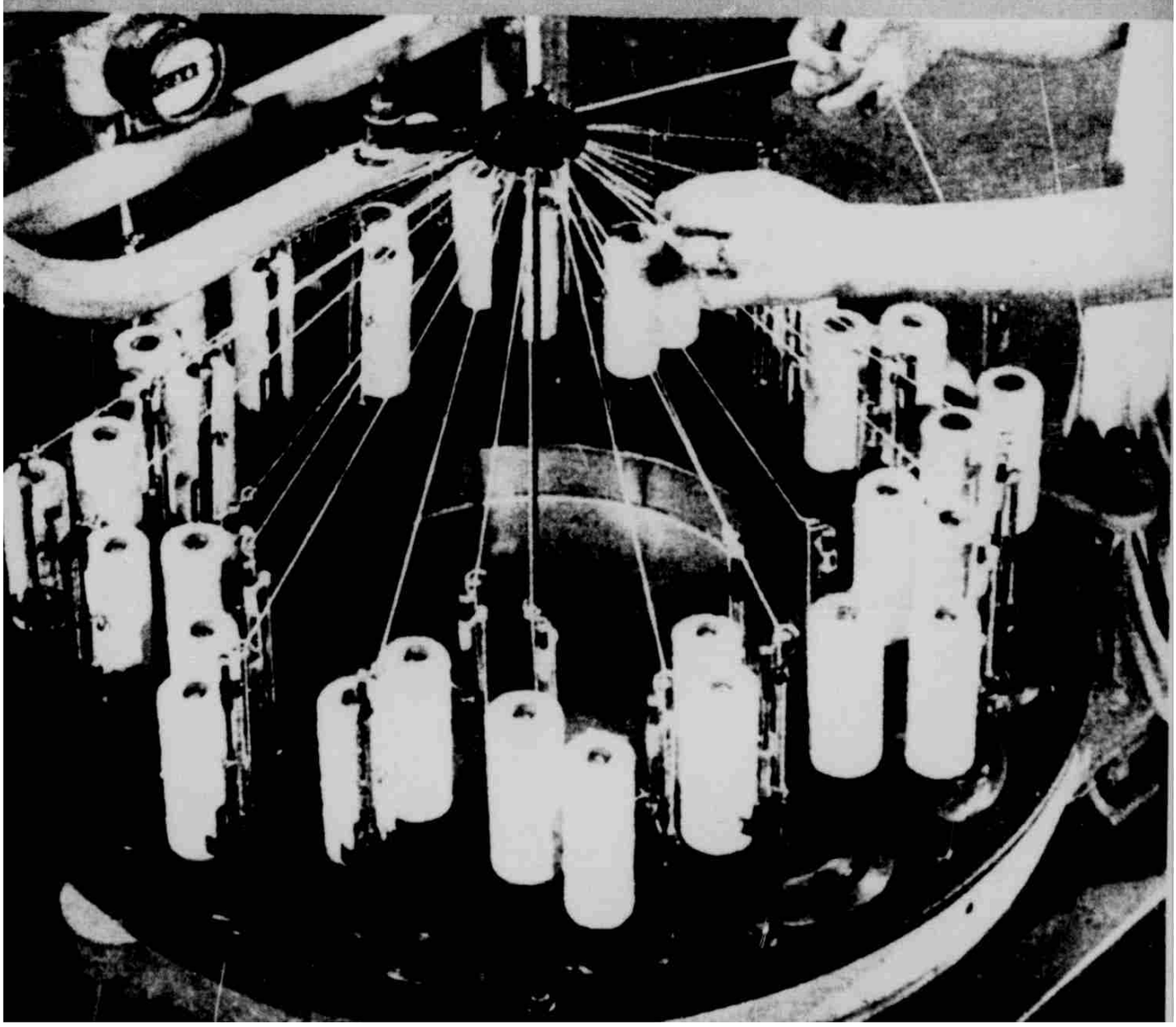
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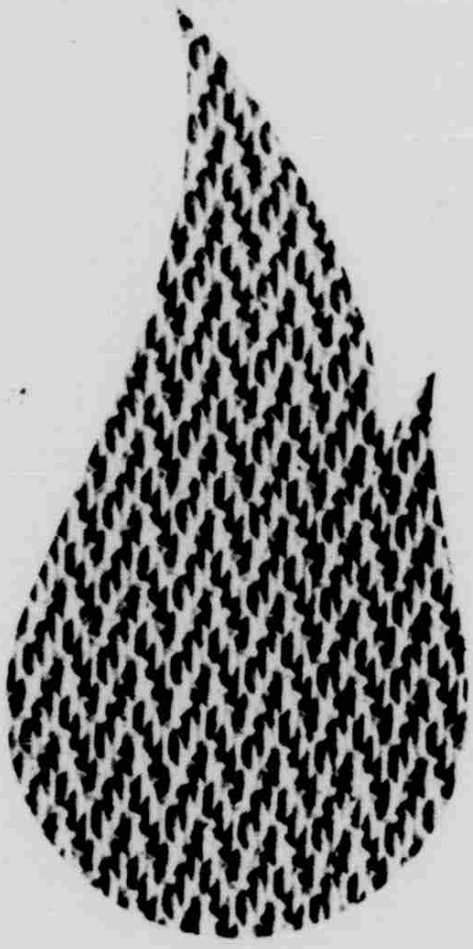
Asbestos Textile History of
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ASBESTOS

VOLUME 53 MARCH 1972 NUMBER 9

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

CONTENTS

HISTORY OF U.S. ASBESTOS TEXTILE INDUSTRY—
CHAPTER XX: RAYBESTOS-MANHATTAN, INC. 2
CHAPTER XXI: CAROLINA ASBESTOS CO. 6
FEDERAL REGISTER LISTINGS 14
CERTAIN-TEED AGREEMENTS 14
THE COVER 14
FACTORY EXPANSIONS 16
INDUSTRIAL HEALTH/POLLUTION CONTROL 18
MARKET CONDITIONS—GENERAL BUSINESS 20
CONSTRUCTION NEWS 22
MOTOR VEHICLE FACTORY SALES 22
PRODUCTION—IMPORTS—EXPORTS 24
LATEST ASBESTOS PRICES 34
NOTES FROM 1971 ANNUAL REPORTS 36
BIRTHDAY GREETINGS 38
ASTM STANDARDS 40
ASBESTOS STOCK QUOTATIONS 42
MEN ON THE MOVE 44
REPORTS & ARTICLES 46
NEW ASBESTOS PATENTS 48
CALENDAR OF EVENTS 50
REMEMBER WHEN? 52
WELCOME TO NEW ADVERTISERS 52

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter XX: Raybestos-Manhattan, Inc.

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

The history of three of the major manufacturing divisions of Raybestos-Manhattan, Inc., has been covered in individual chapters of this History of the U.S. Asbestos Textile Industry. It will no doubt be of interest to the reader to learn why these several companies banded together to form Raybestos-Manhattan, Inc.

The company was incorporated July 5, 1929. The four original manufacturing units were: The Raybestos Company, Bridgeport, Connecticut; General Asbestos & Rubber Company, Charleston, South Carolina; The Manhattan Rubber Manufacturing Company, Passaic, New Jersey; and United States Asbestos Company, Manheim, Pennsylvania.

Sumner S. Simpson was President of The Raybestos Co. in 1929. It was largely his executive ability which had built Raybestos during the prior 20 years. Sumner Simpson was the prime mover in working out the mutual arrangements which led to the formation of R/M, Inc.

General Asbestos & Rubber was founded July 18, 1895. Raybestos purchased controlling interest in Garco in August 1921 to assure a continuing supply of asbestos yarn for its brake lining looms. Complete control was purchased in April 1924. Garco, therefore, entered the corporation as a subsidiary of Raybestos.

Manhattan Rubber was by far the largest of the original R/M units. The business was incorporated October 28, 1893. Prior to 1924 the company made a folded and stitched brake lining that was marketed under the CARDINAL brand name. It consisted of two layers of red rubberized asbestos cloth and a back-up layer of cotton duck. The product was manufactured in Manhattan's Belting Department, of which John Harry Matthews was Manager. (Later, Matty Matthews was elected Executive Vice President of R/M). Buick Motor-Company was a major user of CARDINAL brake lining in 1919.

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Johns-Manville JM



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In 1920 the U.S. Post Office Department invited all friction materials manufacturers to a conference in Washington, D.C. The purpose of the meeting was to establish brake lining standards that could be used as a purchasing department specification. Johns-Manville Corporation used the PRONY brake at the conference to demonstrate that meaningful test results could be developed as a basis for a specification. As Manager of the Belting Department, Matty Matthews represented Manhattan Rubber at the conference. He returned to Passaic and convinced General Manager Arthur F. Townsend that Manhattan needed to embark on a brake lining development program. A dynamometer and other essential equipment were procured and a development program was initiated. The end result was HYCOE brake lining, a frictioned asbestos cloth, folded to size and stitched.

HYCOE brake lining was introduced to the trade in 1924. In the following five years it captured a large portion of the original equipment brake lining business, a field that had been dominated by The Raybestos Co. for some years. HYCOE brake lining, therefore, was an important reason for the formation of Raybestos-Manhattan.

U.S. Asbestos was a major supplier of asbestos cloth to Manhattan Rubber and of asbestos yarn to Raybestos. It was this long-established buyer-seller relationship which prompted the formation of the corporation. George R. Weber was President of U.S. Asbestos in 1929 and S. R. Zimmerman, a corporation lawyer and a former President of U.S. Asbestos, was a Director.

Both U.S. Asbestos and Garco produced a complete line of asbestos packings in 1929. Manhattan Rubber made many styles of rubber packings. The eventual consolidation of these three lines was a third reason for the merger of the four mills.

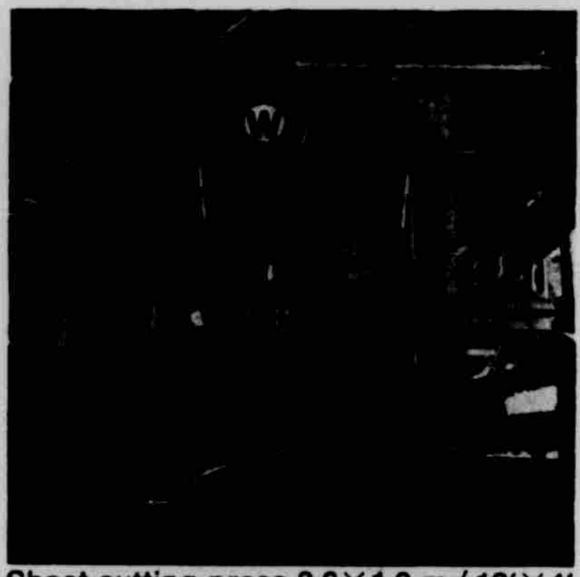
The executive heads of the several mills which joined together to form Raybestos-Manhattan, Inc., logically became the executives of the new corporation. The original slate of officers consisted of: Chairman—Arthur Farragut Townsend (Manhattan), President—Sumner S. Simpson (Raybestos), Vice Presidents—Henderson M. Green (Manhattan), George R. Weber (U.S. Asbestos) and S. R. Zimmerman (U.S. Asbestos), Secretary—Morton F. Judd (Raybestos), Treasurer—Fred L. Curtis (Manhattan), and Assistant Treasurer

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ACL Doc 12659 · Page 6 of 56
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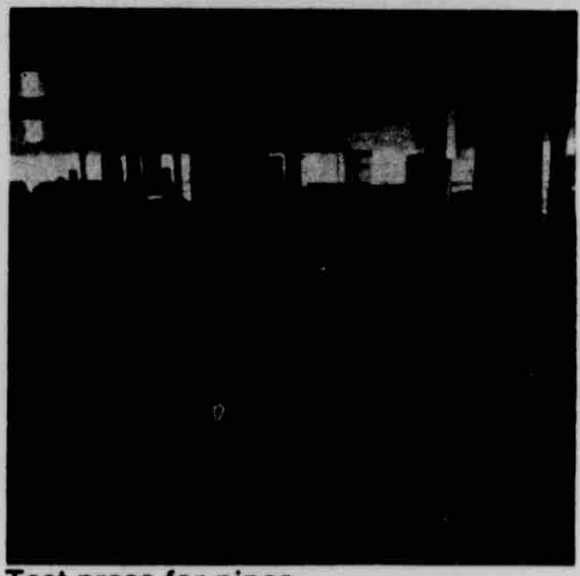
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Turbopulper with horz.-rotors and pump



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—William H. Dunn (Manhattan).

The original officers managed the company very successfully until 1939. Sumner Simpson had been in poor health and wished to be relieved of the burdens of the Presidency. None of the other officers wished to take over as they were all approaching retirement age. It was, therefore, mutually agreed to bring in John F. D. Rohrbach as Vice President. He already had a broad knowledge of R/M affairs when he accepted the offer in 1939 as he had been President of Lee Nicholson & Company, auditors for R/M, since 1916. Mr. Rohrbach served as President of Raybestos-Manhattan for 19 of the company's most successful years—from 1948 until 1967. In 1967 Mr. Rohrbach became Chairman of the Board of Directors. At that time, William S. Simpson, son of the founder, was elected President and Chief Executive Officer. Mr. Simpson is presently Chairman of the Board and President of Raybestos-Manhattan, Inc. Company headquarters are located at Bridgeport, Connecticut.

Chapter XXI: Carolina Asbestos Company

The Carolina Asbestos Company, Davidson, North Carolina, was founded in January 1930 with Clarence Herbert Carlough as President and principal stockholder. W. H. Truesdale, although Chairman of the Board, was never active in the day-to-day management of the company.

Carolina Asbestos was an offshoot of Southern Asbestos Company which, in turn, was an offshoot of General Asbestos & Rubber Company. The reader is requested to consider the accompanying history of Southern Asbestos in order to have a better understanding of the history of Carolina Asbestos and of the life-long relationship between Herb Carlough and his mentor, Bill Truesdale—a relationship much closer than just that of employer/employee. Through most of his business career Bill Truesdale depended on Herb Carlough as his principal assistant.

It would be difficult to find a less propitious year than 1930 in which to start a new business. The wheels of industry were slowly grinding to a halt. The period 1930-33 saw one of the most bitter depressions the United States has ever survived. These were the years of the bread lines and the

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soup kitchens. Hundreds of thousands of capable men could not find employment of any kind. The fellow with a job was a lucky man and he worked diligently to remain on the payroll. Most businesses that did manage to keep going drastically reduced salaries. It was not unusual to hear of worthy employees who had taken five 10% cuts in salary between 1930-32.

In 1933 a frightened nation voted President Herbert Hoover out of office and installed Franklin Delano Roosevelt as President. This was the start of the days of the "New Deal." Make-work programs and pump-priming were the order of the day. Men with college degrees were glad to cut tree limbs and rake leaves in the city park for 35c per hour. In the asebstos textile industry, experienced spinners earned 30c an hour and expert weavers worked for 40c per hour.

The price level in most industries had reached break-even or loss levels, causing the U.S. Government to take official action that was unprecedented in American history. President Roosevelt created the National Recovery Administration and appointed General Hugh Johnson, a greatly respected World War I hero, as Administrator. NRA established what was called the "Blue Eagle Program" encouraging all companies to cooperate by setting minimum price levels and agreeing not to sell below their established price schedules. Manufacturers who agreed to participate proudly pasted the "blue eagle" emblem at the lower left-hand corner of their letterheads. General Johnson proved to be a tough and resourceful Administrator. His Department deserves much of the credit for getting business in general back on the track and helping industry rise above loss levels.

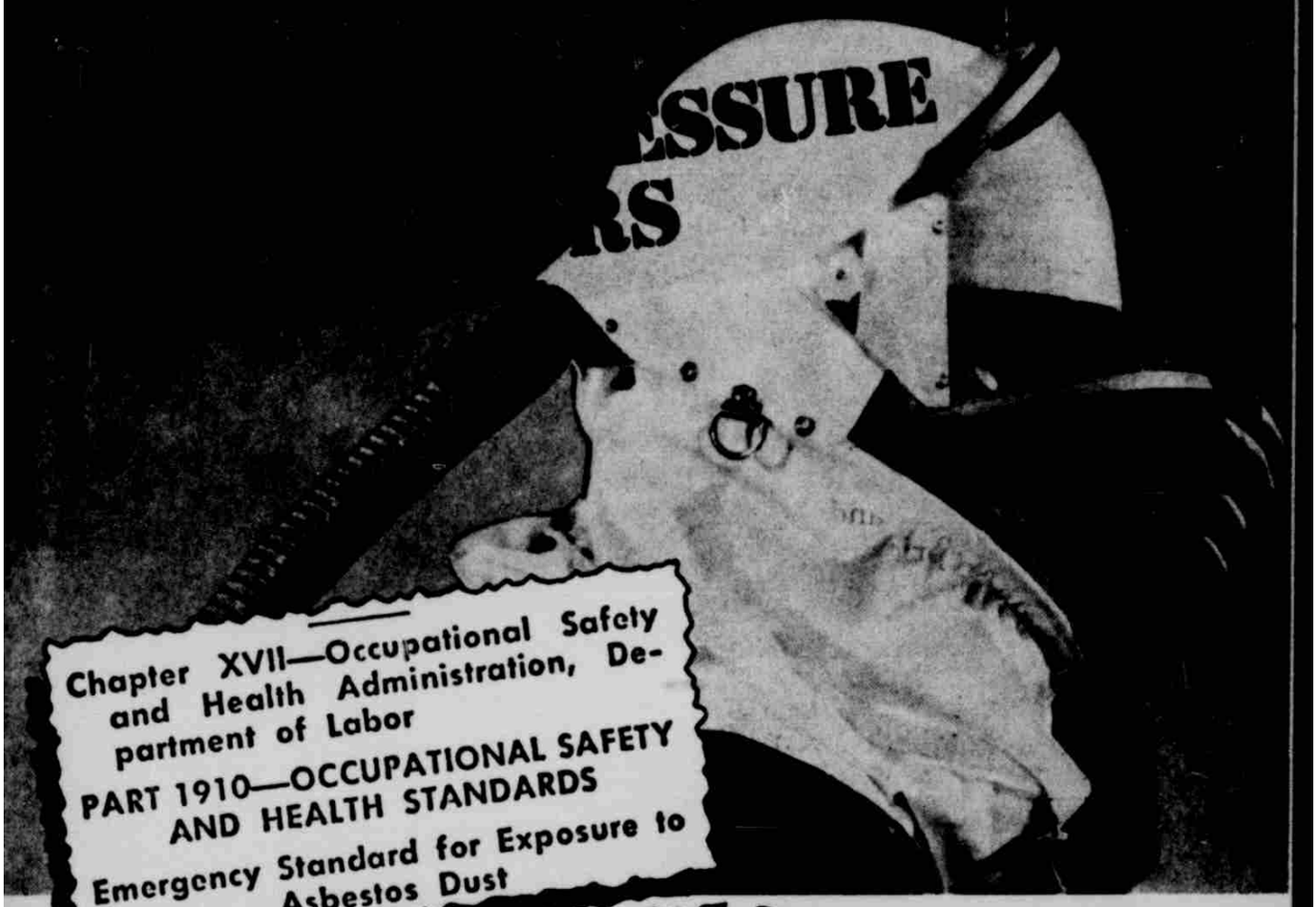
Younger men who cannot recall the depression years will no doubt wonder how a new enterprise like Carolina Asbestos managed to survive at all. The fact that it did survive is a tribute to the manufacturing and sales ability of Herb Carlough. He not only supervised the plant but was largely his own one-man Sales Department. It should be remembered that by 1932 Herb Carlough had had 20 years of experience in the asbestos textile industry and was well known throughout the trade.

By 1934 the wheels of industry again began to turn and business in general improved rapidly. There was a pent-up demand for goods and services of every kind and description.

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ACL Doc 12659 · Page 10 of 56
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(FEDERAL REGISTER, VOL. 36, NO. 234 — DECEMBER 7, 1971)



Chapter XVII—Occupational Safety and Health Administration, Department of Labor

PART 1910—OCCUPATIONAL SAFETY AND HEALTH STANDARDS

Emergency Standard for Exposure to Asbestos Dust

(3) For an atmosphere containing not more than 250 fibers per milliliter greater than 5 microns in length over an 8-hour average, or more than 500 fibers per milliliter over any period of 15 minutes, a powered filter positive pressure respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 14 (Bureau of Mines Schedule 21B) shall be used.

THE ONLY SYSTEMS THAT MEET THIS SPEC. ARE ELECTRIC-POWER RITE WHITECAP HELMET SYSTEMS!

(4) For an atmosphere containing more than 250 fibers per milliliter greater than 5 microns in length over an 8-hour average a type C positive pressure supplied-air respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 12 (Bureau of Mines Schedule 19B) shall be used.

...AND RITE WHITECAP COMPRESSED-AIR SYSTEMS MEET THIS ONE!

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By 1941 Carolina's business had outgrown the little plant at Davidson and, rather than expand at that location, an additional 30,000 square foot plant was acquired at Marshville, North Carolina. (Davidson and Marshville are both near Charlotte). The new facility was principally a weave shed and the plant at Davidson become primarily a yarn mill.

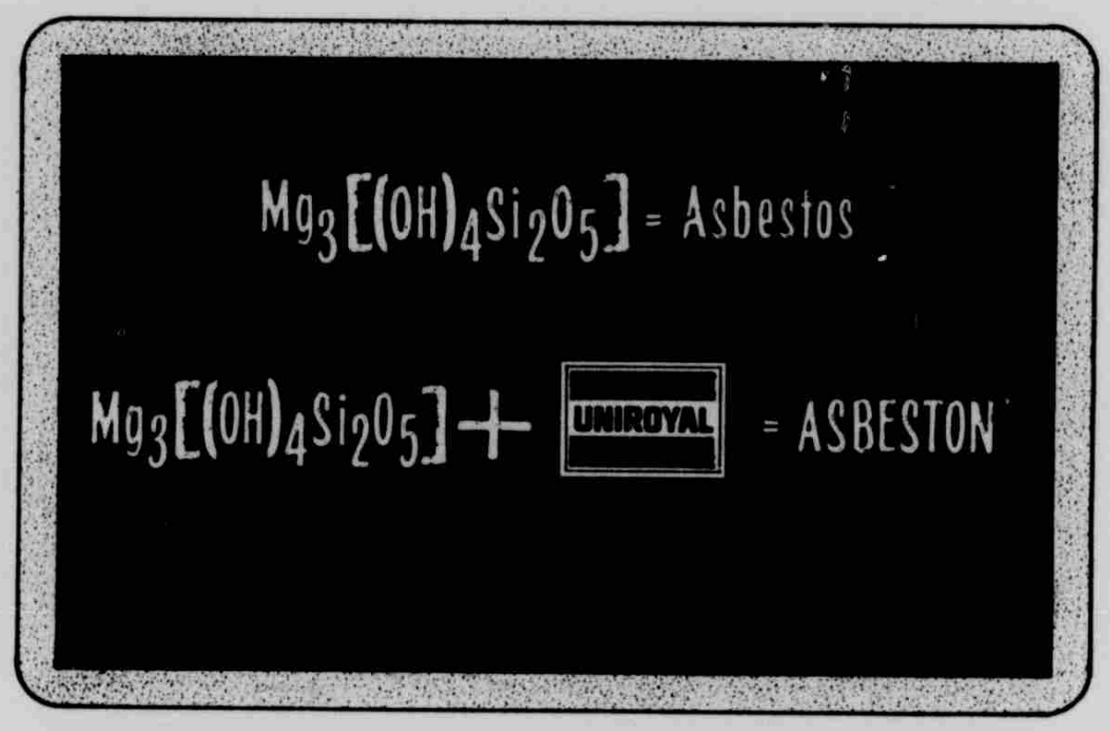
Carolina achieved a balanced operation just in time to participate in the bottomless demand for asbestos textiles created by World War II. The vast Naval and maritime shipbuilding programs demanded unprecedented tonnages of asbestos textiles, particularly cloth. As was explained in a prior chapter, the production of the industry was placed under 100% allocation by the War Production Board. Asbestos textiles were not bought and sold in the normal sense. All members of the industry operated at maximum capacity, turning out products assigned to each mill by the WPB. There were two limiting factors in the output of most mills: availability of spinning fiber and an extreme shortage of available labor.

Just prior to World War II the glass textile industry, most notably Owens-Corning Fiberglas Corporation, began making serious inroads into the traditional markets for asbestos textiles. The inability of the asbestos textile industry to meet the critical war-time needs for its products created a bonanza for the glass textile industry. The basic raw material, sand, was not in short supply. Manufacturers who were unable to purchase asbestos textiles for their war-time needs logically turned to glass textiles as the only other suitable and available material. Naturally the situation was of great concern to all executives in the asbestos textile industry, including Herb Carlough.

By 1944 the asbestos textile producers decided that rather than work against each other it would be more advantageous to set their sights toward competing with the makers of glass textiles. This realization led to the formation of the industry's trade association, the Asbestos Textile Institute. C. H. Carlough was elected the first President of ATI and served in 1945 and 1946. (The history of ATI will be published as the final chapter of this History.)

By January 1947 Carolina's two mills at Davidson and Marshville were going strong under Herb Carlough's direction. The great wave of corporate consolidations had not yet

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ACL Doc 12659 · Page 12 of 56
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begun but Herb Carlough could see that the days of the individualist in industry were about over. He was, therefore, receptive to an offer from L. Lewis Cohen, President of Union Asbestos & Rubber Company, Chicago, Illinois. Union's asbestos textile mill was at Cicero, Illinois, which is not a textile manufacturing center. To make a long story short, Lou Cohen persuaded Herb Carlough to sell his mills to Union Asbestos and to join the company as Vice President in charge of Textile Operations. Following the consolidation, the Cicero plant was phased out. Some of the equipment went to Davidson and some was transferred to Union's newly-acquired plant at Bloomington, Illinois.

The marriage with Unarco was not a happy one. In 1950 Herb Carlough sued Union Asbestos for breach of contract. In settlement of the litigation Herb Carlough re-acquired the Davidson facility. He again operated the business as Carolina Asbestos Company with himself as President and Thomas Sadler as Vice President and Factory Manager. The Marshville plant remained a Unarco property until it was sold to Johns-Manville Corporation in 1963.

As stated previously, the Davidson plant was a carding and spinning mill, while Marshville was largely a weaving mill. To balance the operation, it was necessary to add a weave shed to the Davidson plant.

In 1958 a building was added to the Davidson plant to manufacture asbestos shingles. The added facility had no bearing on textile operations except to add to the total value of the property.

By 1963 Herb Carlough was 65 years old. He had by then been a part of the asbestos textile industry for more than 50 years and decided that was long enough. He sold the Davidson plant to H. K. Porter Company, Inc. The Davidson facility thereafter became a feeder plant to Porter's Charlotte Works (the former Southern Asbestos Company). Herb Carlough passed away June 17, 1968, and Carolina Asbestos became just another of the long list of company names which have faded from the industry's roster.

Next Issue . . . .

Chapter XXII: Asten-Hill Mfg. Co.

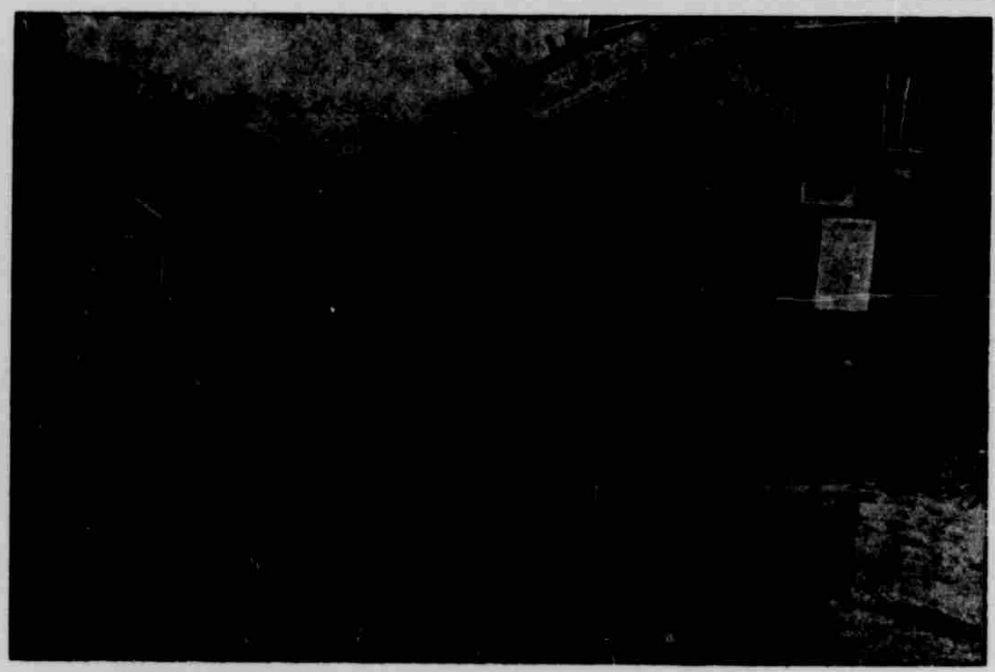
Chapter XXIII: United States Rubber Co.

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ACL Doc 12659 · Page 14 of 56
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FEDERAL REGISTER LISTINGS

Notice was published in the Federal Register on January 26, 1972, that the U.S. Department of the Treasury issued a tentative determination of no sales at less than fair value in connection with its antidumping investigation of vinyl-asbestos floor tile from Canada. Data gathered in the investigation indicated the price to buyers in the home market was lower than the price to U.S. buyers . . . . On February 3, 1972, the Federal Register published notice of the Treasury Department's determination that asbestos-cement pipe from Japan is being, or is likely to be, sold at less than fair value within the meaning of the Antidumping Act, 1921, as amended. The case will be referred to the Tariff Commission.

CERTAIN-TEED AGREEMENTS

Certain-teed Products Corporation signed an agreement with Mitsubishi Cement Co. Ltd., Japan, for the licensing and use of Certain-teed's technical expertise in and patent rights to, the extrusion of asbestos-cement building components. Terms of the agreement allow Mitsubishi to produce hollow-core panels, posts and other building products in Japan, Okinawa and Korea, using Certain-teed's patented process . . . . Saint-Gobain-Pont-a-Mousson and INA Corporation reached an agreement with Certain-teed whereby they will become Certain-teed stockholders, thus providing capital to finance the manufacturing facilities required to produce glass fiber products and composite materials.

THE COVER

This issue's front cover photograph depicts cable braiding with Fortex fine yarn produced by a wet dispersion process from Chrysotile fiber by Turner Brothers Asbestos Co. Ltd., a subsidiary of Turner & Newall Ltd. Fortex yarn offers greater regularity and smoothness than conventional asbestos yarns. An announcement and description of the new line was given in the May 1971 issue of ASBESTOS, on page 14.

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NEW TRUCK AT ASBESTOS MONTERREY

Continuing economic expansion in Mexico is creating new demand for pipe used in construction, ranging from farm irrigation systems to industrial plants and government facilities. Asbestos Monterrey, S.A., a major asbestos-cement pipe manufacturer in Mexico, is meeting the increased production demand by expanding its fleet of lift trucks. The newest addition is a 16,500-pound capacity, pneumatic-tired fork-lift truck (FP-165) supplied by Allis-Chalmers Corporation.

ETERNIT EXPANSIONS

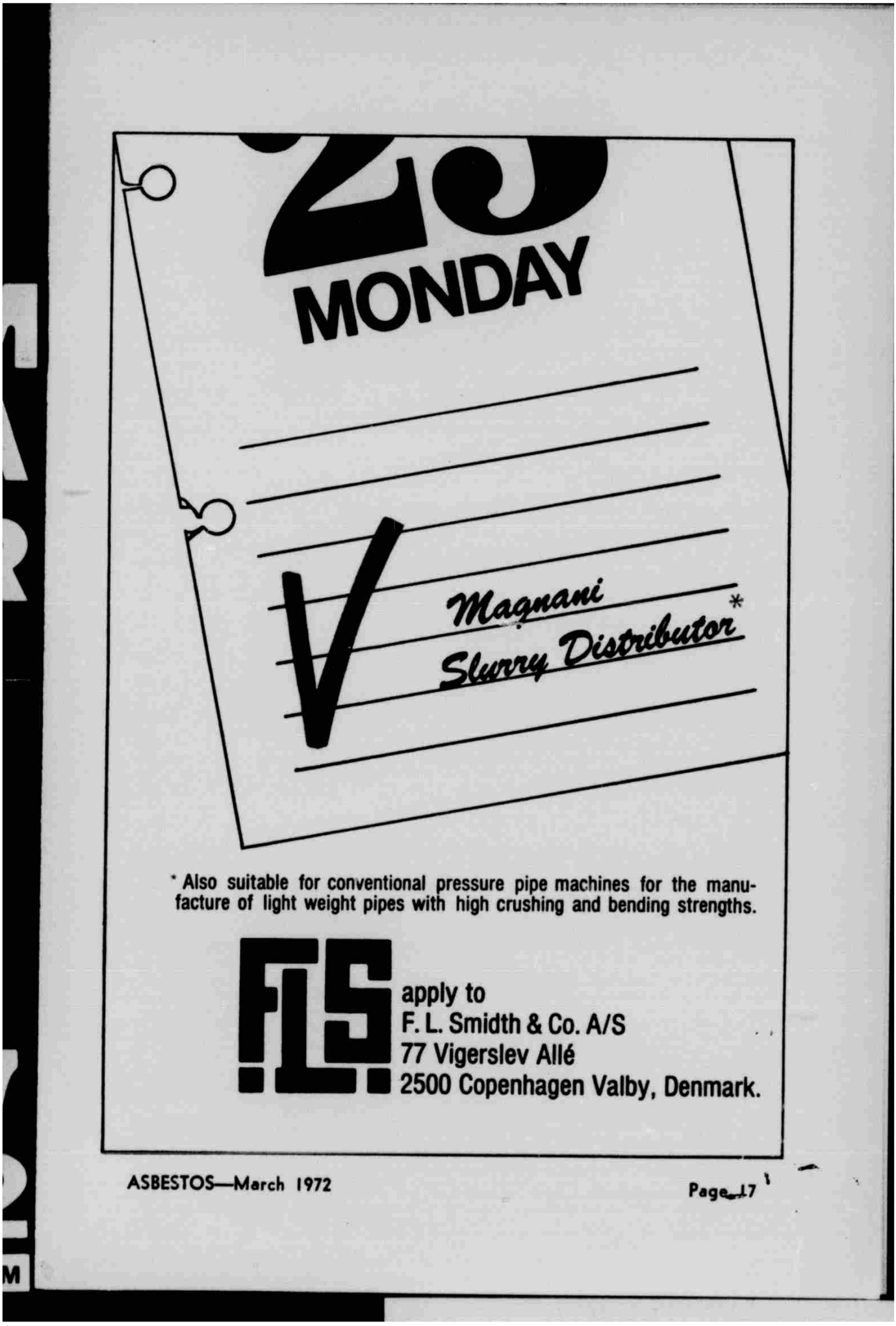
The Asbestos and Cement Products Plant at Trzemeszno, Poland, a manufacturer of Eternit roofing materials, will build a new department to specialize in the production of boards, mats and cladding and will later add a laminated board department . . . . At a cost of some 70 million schillings, Eternitwerke of Vocklabruck, Austria, has installed an automated plant for the preparation of asbestos. Apart from ensuring a more efficient fiberization of the asbestos, the new plant also affords optimum grading of the fiber lengths required for asbestos-cement sheeting.

UPSTROKE PRESS FOR EVERITE

A new fully-computerized 12,000 metric ton press was installed and tested at Everite Limited's factory at Kliprivier, South Africa. The upstroke press was imported from Germany and installed at a cost of R400,000. The total weight of the press is 350 tons and it is capable of pressing 200 asbestos-cement sheets simultaneously, depending on the thickness of the material. Sheets in sizes of up to 4 meters by 1.6 meters can be accommodated by the new machine. The commissioning of the press will enable the Kliprivier Factory to more than double its present production capacity of pressed asbestos-cement building materials.

Next Issue – Tilon Asbestos Products

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 18 of 56
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* Also suitable for conventional pressure pipe machines for the manufacture of light weight pipes with high crushing and bending strengths.

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SEMINAR ON ASBESTOS

The Fine Particles Research Department of the Illinois Institute of Technology Research Institute will sponsor "A Seminar on Asbestos," April 4-7, 1972. The aim of the meeting is to propagate the implication of recent legislation, detail how it was developed and explain how firms may comply using modern technology. For further details, contact Dr. Colin F. Harwood at IITRI, 10 West 35 Street, Chicago, Illinois 60616, or telephone: (312) 225-9630, Ext. 5141.

MINES BUREAU REPORT

A copy of the new report titled "Administration of the Federal Metal & Nonmetallic Mine Safety Act: 1970 Annual Report of the Secretary of the Interior" is available, at 60c, from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. It covers the first five months of Federal mine inspections under the Act, which was passed in 1966. The first health and safety standards were put into effect July 31, 1970, and cover all U.S. mines (except coal mines) and several hundred mineral processing mills.

IIHRP PROGRESS REPORT

The Winter 1970 issue of "Insulation Hygience Progress Reports (IHPR)" announced a joint effort by the Insulation Industry Hygiene Research Program (IIHRP), the U.S. Navy, the Department of Labor and insulation manufacturers and contractors, to control shipyard asbestos dust exposures. As part of that effort, D. A. Holaday and W. B. Reitze of IIHRP prepared a procedures guide for shipyard insulation application and removal. Because of the relevance of the data to all insulation work, portions of the procedures guide are given in the Winter 1971 issue of IHPR. A copy is available on request.

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 20 of 56
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CAPE ASBESTOS

The World's Biggest Producer of Amphibole Asbestos

Enquiries for Amosite and Blue Crocidolite Fibre to:-

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Iver Lane,
Cowley, Uxbridge,
Middlesex, England.
Telephone: Uxbridge 37111
Telegrams: Amoblue-Uxbridge
Telex: 23471 UXB

North American Asbestos Corporation,
Suite 2960,
150 North Wacker Drive,
Chicago/Illinois 60606,
U.S.A.
Telephone: (312) 726 8515
Telegrams: Noramco Chicago

MARKET CONDITIONS

GENERAL BUSINESS

Economic news during the latter part of February took a back seat to the story of President Nixon's visit to China. While this is not expected to result in any near-term changes in our economic relations with China it certainly should favorably affect such relations over the long pull.

General business continues to shown signs of improvement but the pace of the upturn seems agonizingly slow. Lacking statistics which would indicate a really strong upward trend, economists are generally revising downward their year-end predictions of great growth in the GNP for this year. It would appear that more Government spending or some other "shot in the arm" may be needed to give the economy a real boost. The fact that there has been some talk in Washington about a WPA-type program indicates how seriously the politicians are concerned with the nagging problem of unemployment.

The dollar has been under strong pressure in international money markets and some foreign government buying of dollars in an effort to support the price has taken place. Some foreign governments and monetary experts feel that interest rates in the USA are now too low in relation to foreign rates to establish a flow of investment capital into this country and have been pressuring the USA to take measures which would push our interest rates up to levels higher than those existing abroad. Thus far the Treasury has shown no signs of yielding to these pressures on the grounds that higher rates would result in a resumption of the inflation we are trying to control.

All in all, the present outlook for business in general is somewhat cloudy, to say the least.

ASBESTOS-CEMENT EXPERT

offers his specialized services to an asbestos-cement factory or to a company that manufactures asbestos-cement machines. Ample experience in both fields.

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NEWS

FOR
ASBESTOS-CEMENT
MANUFACTURERS

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by which other felts are judged

The SCAPA range of A.C. felts
—the new development of the '70's—offers.

* RELIABILITY
* REPEATABILITY
* SERVICE

We develop—make—and
sell A.C. felts... that's all!



SCAPA TEXTILES LTD.

CONSTRUCTION NEWS

JANUARY 1972 construction contracts set a new value record of $6,234,215,000, bringing the seasonally-adjusted Dodge Index to a new high of 165 (1967=100). The monthly contract value was a billion dollars greater than in any January on record and was 50,000 additional dwelling units ahead of those started in January 1971. But the real "extra" kick was a surge of highway construction and work on a major water pollution control project.

Nonbuilding construction contract value totaled $1,839,713,000, a 78% gain over the year-ago amount. The latest figure included a $420 million contract for another phase of the North River Water Pollution Control Plant now under way in New York City.

Residential building contracts were valued at $2,666,668,000, ahead of the depressed year-ago month by 64%. A decline in apartment construction was offset by gains in single family housing and non-housekeeping residential buildings.

Nonresidential building, after staging a modest recovery throughout 1971, slipped back to its year-ago level with a new contract value of $1,727,834,000. Construction contracts for offices, health facilities, public buildings and religious structures were ahead, while stores, educational buildings and recreational facilities showed offsetting declines. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

MOTOR VEHICLE FACTORY SALES

DECEMBER 1971 motor vehicle factory sales from plants in the *United States* totaled 786,051 (passenger cars—623,372; trucks and buses—162,679). Sales for the YEAR 1971 reached a grand total of 10,637,738, compared with 8,239,257 for the previous year.

Motor vehicle factory sales from plants in *Canada* totaled 99,247 in December 1971 against 75,156 in the prior December. The total for the Year 1971 was 1,355,197, ahead of the 1,171,311 recorded for 1970. [Automobile Manufacturers Association]

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 24 of 56
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If you use asbestos for





sheet gaskets **brake linings**

or just about any other product, we have the fibre grade you need. You can specify from 43 different grades, so you're sure of getting fibres of the correct length and with the proper degree of openness for your products.

Lake Asbestos fibre is supplied in pressure-packed bags which are easy to handle . . . occupy little storage space . . . save on shipping costs. For more information or test samples, write to: Asarco International Corporation, P.O. Box 608, Black Lake, Quebec, Canada—distributors for Lake Asbestos of Quebec, Ltd.

SALES AGENTS

ARGENTINA, Buenos Aires
"Insud" Cia. Sudamericana
de Industria y Comercio S.A.

BRAZIL, Rio de Janeiro
Sao Paulo "Brasimet" Comercio
e Industria S.A.

CALIFORNIA, Los Angeles
E. B. Taylor Company

CANADA, Montreal
Federated Metals Canada, Ltd.

CANADA, Toronto
Federated Metals Canada, Ltd.

COLOMBIA, Bogota
Holanda, Colombia, S.A.

ILLINOIS, Chicago
Jensen-Souders and Assoc., Inc.

MASSACHUSETTS, Allston
D. H. Litter & Co., Inc.

MEXICO, Mexico City
Asarco Mexicana, S.A.

MICHIGAN, Detroit
Baker & Collinson

NEW YORK, New York
D. H. Litter & Co., Inc.

OHIO, Cleveland
A. C. Mueller Co., Inc.

PENNSYLVANIA, Conshohocken
Van Horn, Metz & Co., Inc.

LAKE ASBESTOS

ASARCO

ASARCO INTERNATIONAL CORPORATION
a subsidiary of American Smelting and Refining Company

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 25 of 56
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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census — **OCTOBER 1971**

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	492	$ 108,402
Non-Spinning Fibers	s. tons	2,103	315,305
Waste & Refuse	s. tons	675	62,870
		3,270	$ 486,577
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	829,656	$ 78,715
Other Asbestos-Cement Articles	Lb	510,619	79,509
Asbestos Gaskets	Lb	65,878	91,488
Asbestos Packing	Lb	218,292	319,017
Asbestos Heat or Sound Insulation		..	99,646
Asbestos Textiles & Yarns	Lb	1,063,810	227,177
Asbestos Protective Clothing		..	1,417
Mfrs. Other Than Friction Materials		..	124,658
Clutch Facings & Linings for Auto. Use.	No	42,382	51,201
Clutch Facings & Lining, Other	No	126,529	39,365
Brake Linings for Automotive Use	Lb	710,618	428,138
Asbestos Brake Linings, Other	Lb	203,776	156,982
			$ 1,697,313

EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics — **OCTOBER 1971**

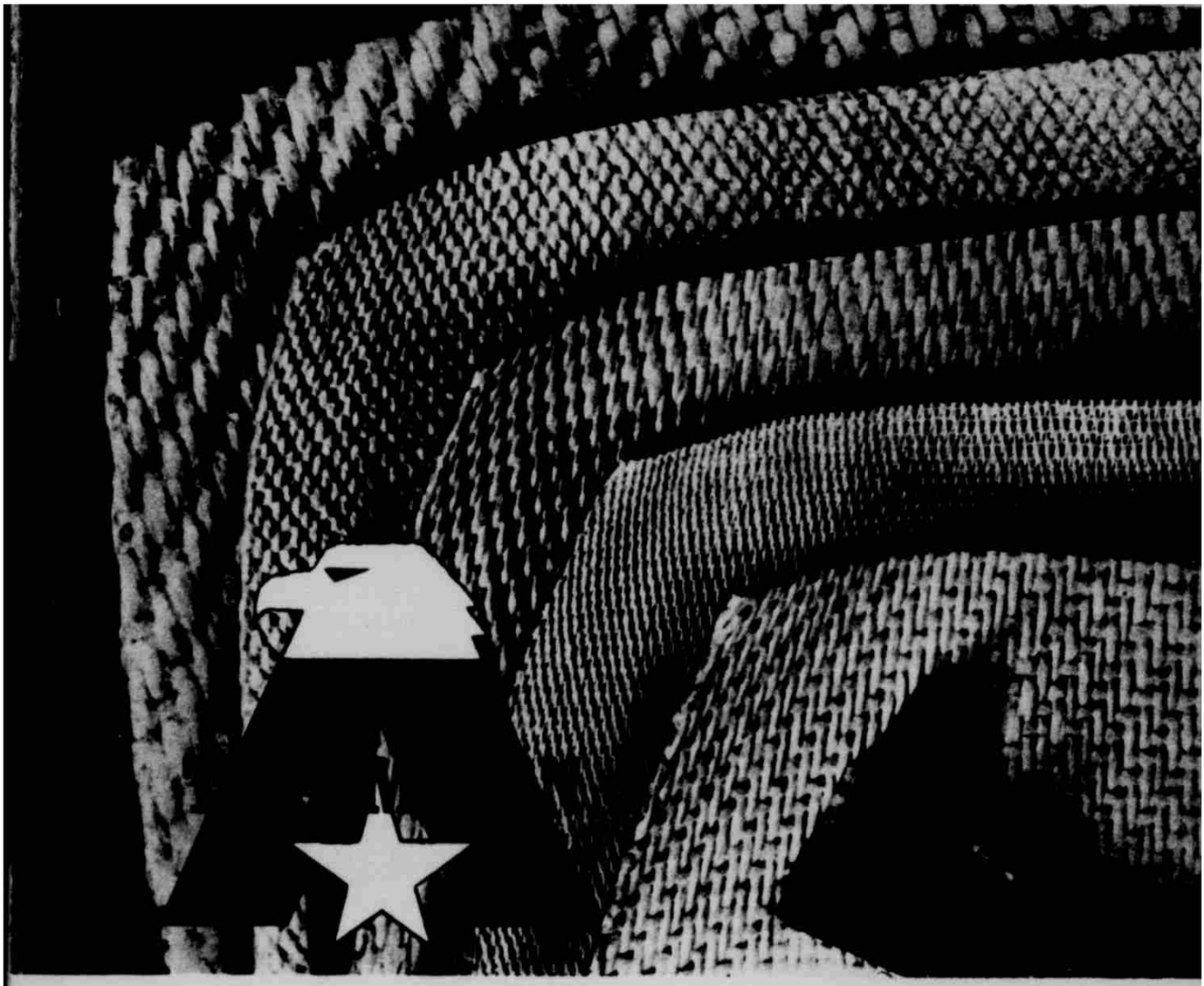
Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	4	657	21,192	10,670
Eastern Europe	..	232	2,851	312
Middle East	..	35	487	214
Africa	..	165	325	276
Asia	10	104	6,030	9,528
Oceania	..	..	5,905	3,449
So. & Cen. America & Antilles	..	256	5,113	1,887
United States	..	700	17,070	39,145
	14	2,149	58,973	65,481

The total amount of unmanufactured asbestos exported in *October 1971* was 126,617 short tons, valued at $18,100,000.

Manufactured Asbestos Goods:		
Asbestos Brake Lining & Facings	$	54,000
Asbestos-Cement Building Materials		162,000
Asbestos Basic Products, Other		91,000
	$	307,000

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 26 of 56
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— a different concept in quality asbestos textiles

CLEANLINESS: *Thermolan* fabrics are smooth and clean. Dust and loose fibers are virtually eliminated. Absolutely no "hairy" or "fuzzy" yarns. Cleaner to handle and cut.

PURITY: The unique process used in making yarns for this fabric results in cloth with less than 2% organics in most styles, which exceeds AAA Grade (95%) requirements. **This material meets United States Coast Guard requirements of 46 CFR 164.009 "Incombustible Materials" paragraph 164.009-2(b) (5).**

TENSILE STRENGTH: Lower organic content means greater strength retention after subjection to heat. Also more resistance to chemical and biological reactions.

THERMOLAN is offered in a variety of gauges (.025"-.125") in Plain, Twill, Herringbone and other constructions. *Thermolan* fabrics are now being used for safety clothing, welding blankets, turbine pads and marine insulation lagging cloth.

How can you use the advantages of *Thermolan*? For samples and information call 215-275-4602 (TWX 510-660-0184) or write Box 228, Norristown, Pa. 19404.

American also offers a complete line of conventional asbestos textiles.

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TEXTILE CORPORATION

PLANTS AT NORRISTOWN, PA. MILFORD SQUARE, PA. MEREDITH, N.H. TOLUCA, MEXICO

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RHODESIAN BAN LIFTED

A removal of controls on the U.S. importation of Rhodesian asbestos was announced in the Federal Register (Volume 37, Number 16) on January 25, 1972. The asbestos textile grades C & G1 and C & G2 are included since they are considered as materials of Southern Rhodesian origin determined to be strategic and critical pursuant to the provisions of the Strategic and Critical Materials Stock Piling Act, so long as the importation of such material from any country or area listed in the Tariff Schedules of the United States is not prohibited by any provision of law. The action does not authorize payment of the purchase price for a commodity imported if such price exceeds the amount customarily paid on the world market for a comparable commodity. [§530.518(3), Part 530, Chapter V, Title 31, Department of the Treasury]

CANADIAN PUBLICATIONS

The Canadian asbestos mining industry produced $201 million worth of products in 1969, 7.5% more than in 1968. Total value added by the industry increased 9.7% to $158 million. The number of employees increased 0.4% to 7,242 and total salaries and wages increased 9.8% to $59 million. [Asbestos Mines, 1969; Catalog 26-205; Dominion Bureau of Statistics, Ottawa, 50¢]

Canadian mineral production (shipments) reached a new all-time high in 1970. Total value was estimated to exceed the $5.7 billion mark. Non-metallic minerals shipped were valued at $498 million, an increase of 10.7% above 1969. Shipments of asbestos, at 1,654,000 tons, increased by 2.7% while the value increased by 10.3% to $215 million. [Preliminary Report of Mineral Production, 1970; Catalog 26-203; Dominion Bureau of Statistics, Ottawa; 75¢]

CYPRUS ANNUAL REPORT

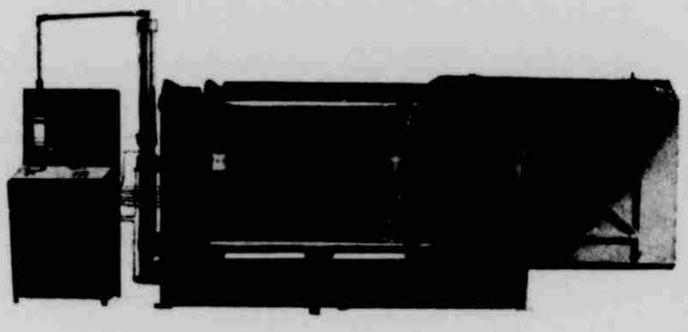
Cyprus exported 1,049,538 short tons of minerals in 1970, at a value of £14,007,661. This includes 23,752 tons of asbestos, worth £1,317,071. Figures are also given for the years 1969, 1968 and 1967. [Annual Report of the Geological Survey Department for the Year 1970, Ministry of Agriculture and Natural Resources, Nicosia, Cyprus]

USSR/FINLAND TRADE AGREEMENT

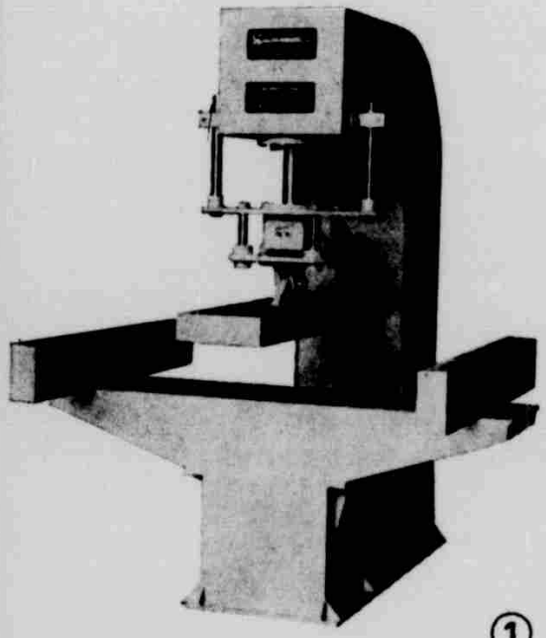
Under the 1972 trade agreement between Finland and the USSR, Finland is to import from the USSR at least 1,600 metric tons of asbestos and is to export to the USSR a quantity of 700 metric tons of Anthophyllite asbestos. [Mineral Trade Notes, Volume 69, Number 2, February 1972; U.S. Bureau of Mines]

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 28 of 56
Published by AsbestosClaims.Law
asbestosclaims.law/library/12659/28

① Bending and crushing test press for sheet and pipes



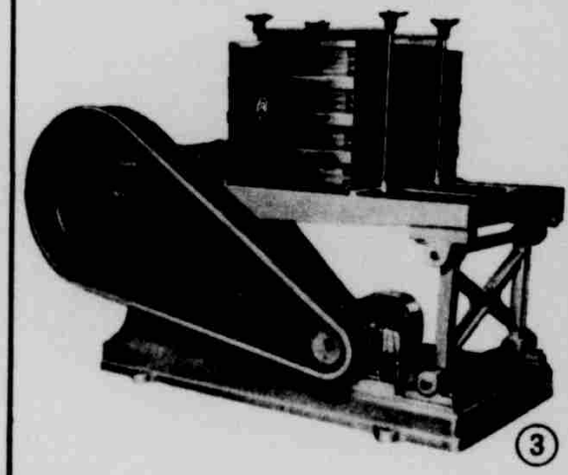
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

SALVANESCHI S.p.A.

VIA ROMA, 27-27043 BRONI (PV) ITALY - TELEF. 51.024

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ASBESTOS DISCOVERY IN NEW ZEALAND

Kennecott Exploration, the New Zealand subsidiary of Kennecott Copper Corporation, New York City, is investigating asbestos-bearing rock outcrops in New Zealand. According to unconfirmed reports, a "large" asbestos property has been discovered at Red Hills in West Otago on the South Island. If the deposit is found to be commercially viable, it could be of major significance to the mineral industry of New Zealand. Local production could lead to an import saving of more than $1 million per year. Asbestos has been previously produced in New Zealand. From 1941-1963, about 4000 tons of the material were extracted from a deposit located near Nelson.

NEW MILL AT RHODESIA'S KING MINE

Rhodesian and General Asbestos Corporation, a wholly-owned subsidiary of Turner & Newall Ltd., is replacing the existing mill at the King Asbestos Mine at Mashaba, Rhodesia, 160 miles from Bulawayo. Press reports indicate that construction of the new mill is being financed by blocked funds, at a value of about £12 million. The newspapers further proclaim the new development will make the King mine the main asbestos producer in the R&G Group. The mill is expected to be in operation by mid-1972 and to reach full production by the end of the year. It is anticipated that more than 300 artisans and a large number of African workers will be employed at the site. R&G mines include the Shabani, King, Gaths and Temeraire operations.

MONSTROUS CRUSH AT JEFFREY

Canadian Johns-Manville Co. Ltd. has installed what is believed to be the world's largest crusher in the new crusher-dryer-concentrator complex that is part of the C.J-M $75 million, three-year program to relocate the surface facilities of Jeffrey Mine, Asbestos, Quebec. Weighing about 800 tons, the gyratory crusher assembly sits 20 feet below ground in a pit measuring 56 feet long by 36 feet across. Trucks of up to 200 tons capacity dump loads directly into the pit, the upper walls of which are lined with 2" thick wear-plates made of ultra-tough manganese steel. The space below the wear-plates will be filled with rock so it slopes at a 45° downward angle towards the center of the crusher. In this way, the impact of the rock being dumped at hourly rates of up to 3,000 tons will be born by either the rock base or the wear-plates. The crusher consists of a 27-foot-deep, 105-ton rotating shaft which fits inside a narrow circular housing shaped like an inverted cone. Powered by a 700-horsepower electric motor, the entire shaft rotates in its funnel at 100 rpm with a slight eccentric motion. The off-center wobble is what actually crushes the rock. [Asbestos Producer, February 1972]

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 30 of 56
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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

Naturally we want to control the quality and uniformity of the many grades of asbestos we produce. So to meet exact customer requirements, we use sophisticated equipment as seen in this Thetford Control Center.

It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P. Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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PREPRINT ON ASBESTOS

FROM THE 1970 U.S. BUREAU OF MINES MINERALS YEARBOOK

United States asbestos production (shipments) in 1970 met 17% of U.S. requirements and totaled 125,314 short tons, valued at $10,696,000, a less than 1% decrease from the record high in 1969. Only four States produced asbestos, mostly the short fiber Chrysotile variety. California, with 63%, was the leader followed in order by Vermont, Arizona and North Carolina (Anthophyllite). California production increased 4% to 78,966 tons and the value increased by $375,740. The continued slow-down in the building and construction industries resulted in an apparent consumption in 1970 of 728,131 tons, 93% of that in 1969.

The U.S. exported and reexported 46,585 tons of unmanufactured asbestos in 1970, valued at $6,996,000. This compares with the 36,173 tons, valued at $4,979,000, reported in 1969. Exports and reexports of asbestos products in 1970 were valued at $25,391,000, against $28,183,000 in the previous year. Five of the nearly 100 purchasing countries accounted for more than ½ of foreign sales, i.e., Canada, 33%; West Germany, 8%; United Kingdom, 5%; Venezuela, 4%; and Australia, 3%.

U.S. imports for consumption of unmanufactured asbestos were 93% of the 1969 level and totaled 649,402 tons in 1970, valued at $75,146.000.

The Clean Air Act of 1970 required the U.S. Department of Health, Education and Welfare to publish lists of hazardous air pollutants. Asbestos was one of the first three to be named.

Government stockpile inventories at year-end included 62,362 tons of Amosite, 14,054 tons of Chrysotile, 3,111 tons of Subspecification Chrysotile and 42,797 tons of Crocidolite.

World production of asbestos in 1970 was 3,826,238 tons, against 3,640,017 in 1969 and 3,315,303 in 1968. [A breakdown by country of the preliminary world production figures is available on request.] The free world's largest producer, Canada, shipped 7% less in quantity to the U.S., its largest market, but total shipments for 1970 were over 5% more than in 1969. The USSR remained second only to Canada in production and exports of asbestos and shares title as the No. 1 consumer with the U.S. It is estimated the USSR produced 1.2 million short tons of asbestos in 1970. The Republic of South Africa remained solidly in third place among world producers (316,822 tons in 1970).

The preprint cited two trade journals that carried forecasts of a possible worldwide asbestos shortage by 1974 and a third publication which said the new capacity being readied will just meet increased demand in the Western world during the next two years. Accelerated exploration, development and modernization of asbestos properties throughout the world attest that the exporting countries foresee greater markets and that many importing countries hope to become self-sufficient. In Australia, plant construction, mine preparation and personnel recruitment were well underway at the new Pacific Asbestos Ltd. site at Barraba, NSW. Hammersley Iron Pty. Ltd. was investi-

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 32 of 56
Published by AsbestosClaims.Law
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The Occupational Safety & Health Act radically changes the clean-up picture in most operations: sweeping asbestos is no longer allowed. Vacuuming is mandatory. Which means you have to know the most efficient, most economical way of complying with the government regulation.

The answer: Hoffman central or portable vacuum cleaning systems. Asbestos industry proven in almost 20 years of service, Hoffman hi-velocity central vacuum and conveying systems offer peak power for the cleaning of asbestos and other difficult-to-handle materials. Properly designed, permanently installed, and practically maintenance-free, these systems provide the efficiency and economy you need for large scale vacuuming operations.

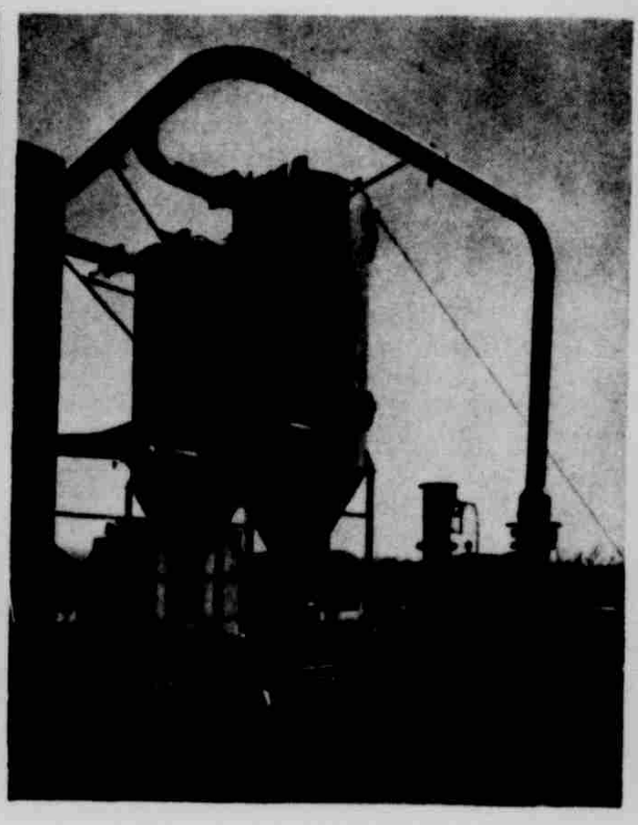
Smaller plant requirements can take advantage of Hoffman portable systems—strongly powered and dependable, yet conveniently maneuverable from floor to floor and into remote areas.

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HOFFMAN
AIR SYSTEMS

2 ways to cope with the sweeping changes in the asbestos industry.





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gating the feasibility of reactivating the Crocidolite property at Wittenoom, Australia. Under a United Nations Development Program, the Bolivian Crocidolite mines were to become steadily rather than sporadically operated. Nicolet Industries, Inc., has a 70% share in the Columbian Chrysotile mine near Medellin. The five companies that were exploring or planning development of new Chrysotile deposits in Canada included Abitibi Asbestos Mining Co. Ltd., McAdam Mining Corporation Ltd., Ascopex Exploration Ltd., Cassiar Asbestos Corporation Ltd. and Golden Gate Explorations Ltd.

Under the chapter heading "Technology" the preprint reviewed the development by a British firm of a glass fiber that resists alkali, Monsanto Co.'s low-cost, general-purpose, reflective coating called Al-Kote, and the establishment of the Asbestos Information Association/North America.

MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 8: Conservation

The worldwide shortage of asbestos that existed during World War II and the early postwar period led to wide research and experimentation on materials that might take its place. To extend and conserve the supply of asbestos fibers, a glass-asbestos cloth was designed during World War II. It has continued in use as a covering on thermal insulation applied to piping on naval vessels. It is woven with a plied yarn having one strand each of glass and asbestos yarn.

Some grades of asbestos are more in demand than others. Shortages may develop for the preferred grades and stocks of the less marketable fibers may accumulate. A great deal of research has been devoted to substitution of the more abundant grades for those that are plentiful but more in demand. Canadian Group 6 fibers have been adapted for use in asbestos-cement products, but Groups 4 and 5 are still preferred.

Part 9: Byproduct-Coproduct Relationships

There are no commercial byproducts in the production and milling of asbestos. The fiber comprises 5% to 10% of the rock mined and the waste rock consists of broken and pulverized serpentine for which very little commercial use has been found. One leading producer has devised a practical method for recovering magnesia from a waste rock and a small quantity of byproduct crushed stone has been marketed. In addition, mill wastes containing appreciable asbestos may be usable in producing inexpensive asbestos flooring compositions.

NEXT ISSUE—CONSUMPTION PATTERN/USES

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 34 of 56
Published by AsbestosClaims.Law
asbestosclaims.law/library/12659/34

ASBESTOS

HUXLEY DEVELOPMENT CORPORATION

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Crocidolite

Amosite

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OUR 25TH YEAR

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LATEST ASBESTOS PRICES

ARIZONA

(AS OF AUGUST 1, 1968) — PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA

	U.S. DOLLARS
No. 1 Crude	$1410.00 — $1650.00
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

(AS OF JULY 1, 1971) — PER TON OF 2000 LBS., F.O.B. MINE

	CANADIAN CURRENCY
Crude No. 1	$ .. — $1615.00
Crude No. 2	.. — 875.00
No. 3 (Spinning Fiber)	412.00 — 675.00
No. 4 (Asbestos-Cement Fiber)	227.00 — 383.00
No. 5 (Paper Fiber)	164.00 — 195.00
No. 6 (Paper & Shingle Fiber)	.. — 120.00
No. 7 (Shorts)	52.00 — 100.00

CASSIAR

(AS OF JANUARY 1, 1971) — PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

	CANADIAN CURRENCY
AAA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	$ 877.00
AA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	697.00
A Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	529.00
AC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
CC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
AK Grade (Asbestos Cement Fiber/Canadian Gp 4)	263.00
CP Grade (Asbestos Cement Fiber/Canadian Gp 4)	248.00
AS Grade (Asbestos Cement Fiber/Canadian Gp 4)	228.00
CT Grade (Asbestos Cement Fiber/Canadian Gp 4)	223.00
AX Grade (Asbestos Cement Fiber/Canadian Gp 5)	208.00
CY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00
AY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00

VERMONT

(AS OF JULY 1, 1971) — PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT

	U.S. DOLLARS
Grade 4T (Fiber)	$ ..— $ 220.00
Grades 5D thru 5R (Fiber)	159.50— 187.50
Grade 6D (Waste)	..— 116.00
Grades 7D thru 7T (Shorts)	49.50— 97.00
Grade 7TF Floats (Shorts)	..— 43.50
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NOTES FROM 1971 ANNUAL REPORTS

TURNER & NEWALL LTD.

The Turner & Newall Group engages in every stage of the chain of production of asbestos goods from mine to manufacture of the final product. Management has followed a policy of diversification into a wide range of glass fiber, mineral fiber, plastics, rubber and other products essential to the building, automotive and engineering markets which it serves. Non-asbestos products now constitute about 25% of worldwide turnover and some 40% of turnover in home markets. . . . Consolidated profit, after taxation, for the year ended September 30, 1971, was £8,863,000. The comparable figure for the previous year was £7,837,000. The figure does not include any profits or losses which may have been made by subsidiary companies operating in Rhodesia. . . . During the year T&N acquired the balance of the shares in Payen-Roan Company NV of Holland, manufacturers of gaskets. Agreement was reached with Raybestos-Manhattan, Inc., to acquire its holding of 49.6% of the share capital of Raybestos-Belaco Ltd.

TAC Construction Materials Ltd.—Demand for industrial building materials was quiet with no slackening of competition. The market for insulation and fire protection products was buoyant. Sales of electrical and mechanical products increased but demand receded in the second half of the year, reflecting the low activitiy of the engineering industry.

Turner Brothers Asbestos Co. Ltd.—Export sales of asbestos textiles were ahead of the prior year. Demand for the new range of Fortex wet dispersion asbestos textiles expanded at a faster rate than forecast and there was ready acceptance of Fortex cloth for thermal insulation applications, notably abroad.

Ferodo Ltd.—Automotive replacement sales were good and export sales reached an all-time record level. Japan was Ferodo's fifth most important market for direct exports of friction materials from the United Kingdom.

Canada—Atlas Asbestos Co. reported results that were better than in the prior year but still not satisfactory. The outlook is encouraging as demand for building products and pipes is running at more satisfactory levels. The single sheeting machine at the asbestos-cement plant in British Columbia, operated by Turners Building Products, should ensure the provision of good, economical service to the building markets of Western Canada. The mine development program progressed satisfactorily at Bell Asbestos Mines Ltd. and profit before taxes moved ahead strongly as demand continued good.

India—Hindustan Ferodo Ltd. recorded increases in the use of brake linings and clutch facings and production of other asbestos-based materials was at full capacity. Asbestos Cement Ltd. recommissioned its fifth sheeting machine and announced an increased demand for building materials.

Ireland—In spite of the disturbances in Northern Ireland, Turners Asbestos Cement (Northern Ireland) Ltd. managed to increase turnover and profit. The two asbestos-cement companies in which T&N holds substantial minority interests also showed a marked improvement over the previous year.

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Italy—Ferodo Italiana SpA continued to expand its sales of original equipment to European vehicle, brake and clutch manufacturers.

Nigeria—Turners Asbestos Cement (Nigeria) Ltd. is again producing building materials at the Enugu factory. The pipe machine was recommissioned in August 1971. Turners Asbestos Cement (Kaduna) Ltd. is constructing a sheeting products plant which is expected to be in production early in 1972.

Republic of South Africa—Despite a better turnover for Turners Asbestos Products Ltd., profit was virtually unchanged as permission to increase prices was denied by the Price Controller. (Price increases have now been sanctioned.) Turners Engineering Products (Pty) Ltd., through Ferodo (Pty) and Payen Components SA (Pty), manufactures friction and other materials in Durban and gaskets in Port Elizabeth. Turners Engineering recently acquired Langcork (Pty) Ltd. of East London, producers of gaskets and products similar to those of Payen.

Swaziland—The pressure of rising costs throughout Southern Africa and serious technical problems at the Havelock Mine caused a significant fall in the profits of New Amianthus Mines (Pty) Ltd. The Crocidolite and Amosite interests of the company are relatively small.

Zambia—TAP Building Products Ltd. maintained improved demand for building products. Installation of the plant proceeded satisfactorily and the first asbestos-cement pipes to be made in Zambia came off the production line in December 1971.

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BIRTHDAY GREETINGS TO . . .

H. D. S. Hardie, Director, Turner & Newall Ltd., Manchester, England, April 15.
Arch. Mackintosh, Managing Director, Wunderlich Ltd., Sydney, N.S.W., Australia, April 15.
Hugh Wittman, Plant Superintendent, Philip Carey Company, Linden, New Jersey, April 15.
Harold U. Zerbe, Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, April 15.
Philip A. Meyer, Consultant, Nicolet Industries, Inc., Short Hills, New Jersey, April 16.
G. A. Higham, Managing Director, The Cape Asbestos Co. Ltd., London, England, April 17.
Henry E. Sporrer, Production Manager A.C., Wunderlich Ltd., Sydney, N.S.W., Australia, April 17.
S. P. Milburn, Managing Director, Ferodo Italiana S.p.A., Mondovi, Italy, April 18.
Kenneth Neve, Director, Turner & Newall Ltd., Manchester, England, April 19.
Harold E. Gilbert, Manager, Felt Mill, Philip Carey Company, Lockland, Cincinnati, Ohio, April 20.
Henry A. Berg, Manager, Engineering Fiber Processes, National Gypsum Company, Buffalo, New York, April 21.
M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, April 21.
J. Stokes Clement, Vice President-Floor Products, GAF Corporation, New York City, April 23.
F. E. Thurston, Vice President-Northern Operations, Asbestos Corporation Ltd., Montreal, Quebec, Canada, April 23.
William T. Cavanaugh, Managing Director, American Society for Testing and Materials, Philadelphia, Pennsylvania, April 24.
Joseph G. Hall, Vice President-Building Products, GAF Corporation, New York City, April 24.
R. D. Armstrong, President, Rio Algom Mines Ltd., Toronto, Ontario, Canada, April 25.
W. Lindsay Wylie, Managing Director, Uniroyal Ltd.-United Kingdom, New York City, April 26.
J. Carroll Johnston, President, Atlas Asbestos Company, North Wales, Pennsylvania, April 28.
William C. Glor, Manager of Market Research-Panacon, Philip Carey Company, Cincinnati, Ohio, April 29.
Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.
Herbert L. Abrons, Corporate Secretary & Counsel, GAF Corporation, New York City, May 4.
Guy G. Gabrielson, Jr., President, Nicolet Industries, Inc., Ambler, Pennsylvania, May 4.
E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.
W. S. Cowell, Chairman, Albion Asbestos Packings Ltd., Montreal, Quebec, Canada, May 5.
J. William Duncan, Vice President-Corporate Development, National

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Canada:	Advocate, Baie Verte, Newfoundland Johns-Manville, Mill No. 5, Asbestos, Quebec Johns-Manville, Reeves, Ontario Carey-Canadian, East Broughton, Quebec Flintkote, Thetford Mines, Quebec
Australia:	Woodsreef Chrysotile Corp., Barraba, N.S.W.
South Africa:	Msauli, Barberton
West Germany:	Asbestos Corporation, Nordenham

Feasibility studies have been carried out in Australia, Bolivia, Turkey, Canada, Greece and Mexico.

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Gypsum Company, Buffalo, New York, May 8.
John P. Hayes, President, Building Products Division, and Corporate Group Vice President & Director, National Gypsum Company, Buffalo, New York, May 9.
F. Parker Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, May 10.
C. R. Elliott, Vice President & Secretary-Treasurer, Cassiar Asbestos Corporation Ltd., Toronto, Canada, May 11.
R. B. Todd, Vice President-Manufacturing & Director, Atlas Asbestos Company, Montreal, Quebec, Canada, May 11.
E. J. Weber, Jr., Vice President-Industrial Relations, The Flintkote Company, White Plains, New York, May 13.

ASTM STANDARDS

C177 71—Test for Thermal Conductivity of Materials by Means of the Guarded Hot Plate. [Revision of Standard; Effective October 29, 1971; Reference Parts 14 & 27, 1972; $1.25]

C548 71—Test for Dimensional Stability of Low-Temperature Thermal Block & Pipe Insulation. [Revision of Standard; Effective October 29, 1971; Reference Part 14, 1972; $1.25]

C680 71—Recommended Practice for Determination of Heat Gain or Loss & Surface Temperatures of Insulated Pipe & Equipment Systems by the Use of a Computer Program. [New Standard; Approved October 29, 1971; Reference Part 14, 1972; $1.25]

C687 71—Recommended Practice for Determination of the Thermal Resistance of Low Density Fibrous Loose Fill Type Building Insulation. [New Standard; Effective October 29, 1971; Reference Part 14, 1972; $1.25]

F38 71—Tests for Creep Relaxation of a Gasket Material. [Adopted as Standard with Revision; Effective October 29, 1971; Reference Part 28, 1972; $1.25]

F336 71—Recommended Practice for Design & Construction of Non-metallic Enveloped Gaskets for Corrosive Service. [New Standard; Effective October 29, 1971; Reference Part 28, 1972; $1.25]

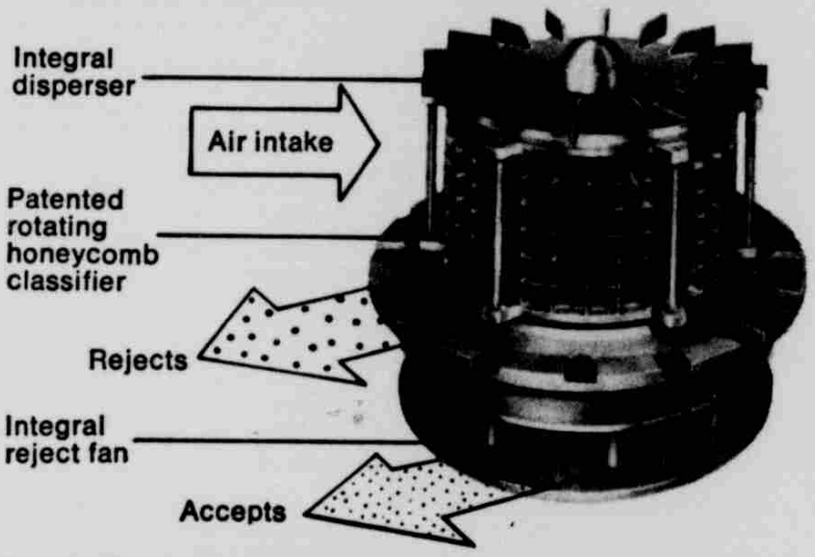
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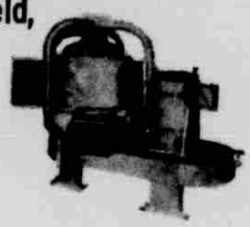
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CLOSE—FEBRUARY 15, 1972

Abitibi Asbestos	*$1.80	Grace	29⅝
Advocate Mines	*$1.70	G&W (pfd 3.50)	145¾
Allied Mining	*$3.85	G&W (pfd 3.87)	68½
Asarco	21	G&W (pfd 5.75)	72½
Armstrong Cork	39¾	Illinois Central	36
Armst Cork (pfd 3.75)	56½	Ill. Central (pfd 3.50)	63¼
Asbestos Corporation	*$27.00	Johns-Manville	39¾
Bendix Corporation	44¼	Maremont	39¼
Bendix (pfd 3)	67¼	National Gypsum	19½
Carlisle	22⅝	Natl Gypsum (pfd 4.50)	72½
Cassiar Asbestos	*$19.75	Pacific Asbestos Ltd.	*$1.51
Cerro Corporation	16¾	Panacon	4¾
Certain-teed Products	47½	Pathfinder	*$1.38
C-teed (pfd .90)	47	Porter (pfd 5.50)	70⅜
Conwest	*$8.00	Raybestos-Manhattan	32¾
Flintkote	29	Royal Industries	15¼
F-kote (pfd-A 4.50)	81½	Unarco	15¼
F-kote (pfd-B 2.25)	40½	Union Carbide	44⅜
GAF Corporation	24⅞	Uniroyal	19¾
GAF (pfd 1.20)	30⅞	Uniroyal (pfd 8)	106
Garlock	20	United Asbestos	4¾

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)

TRADE/INVESTMENT OPPORTUNITIES

Businessmen desiring assistance with any phase of their foreign investment program should contact the nearest U.S. Department of Commerce Field Office or the Foreign Investment Services Division, Office of International Investment, U.S. Department of Commerce, BIC-878, Washington, D.C. 20230 (telephone: (202) 976-4065).

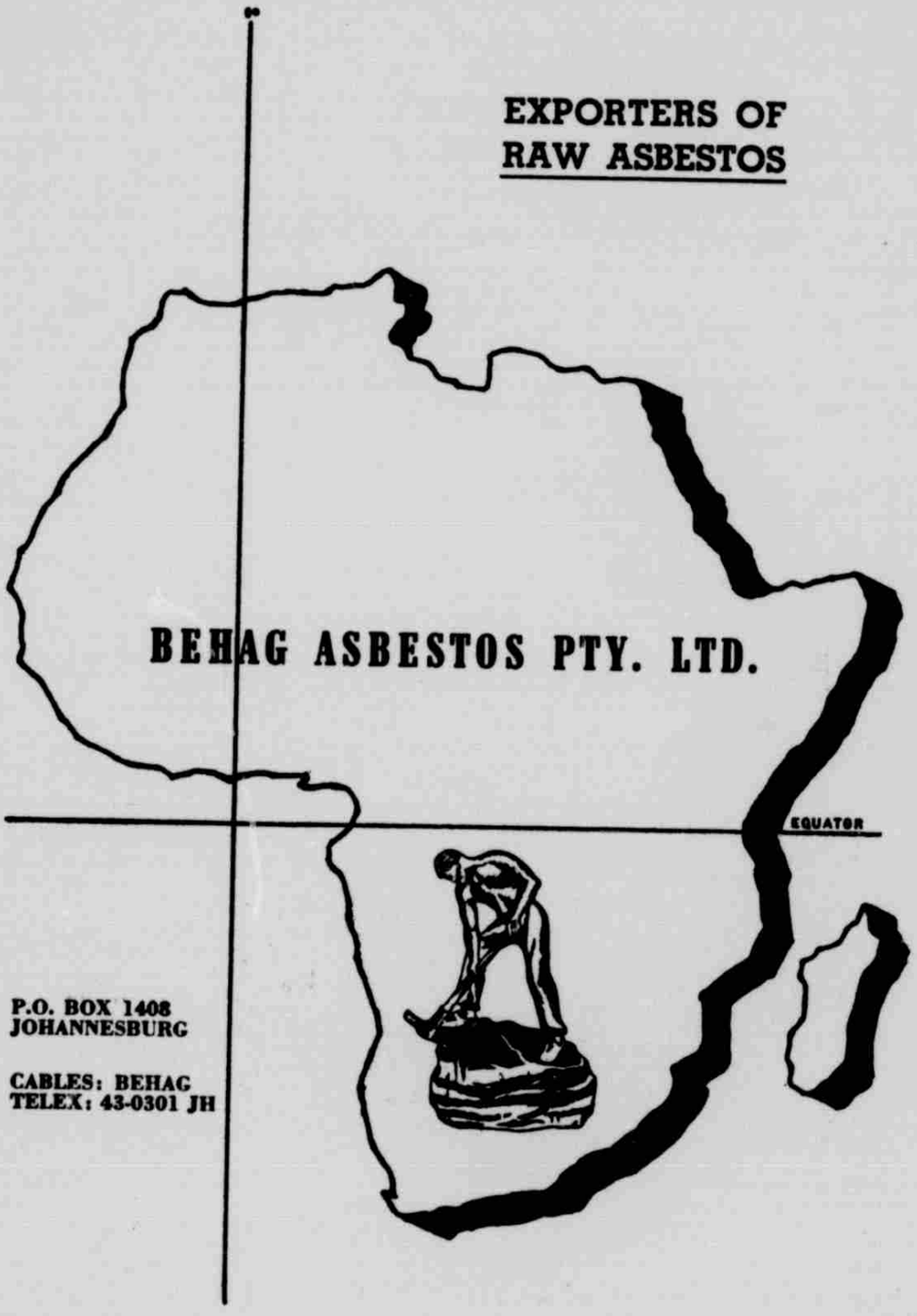
France—distributor-manufacturer interested in agency agreement concerning non-woven textiles, particularly those used in the manufacture of protective clothing. [Mr. Fassotte, Balamundi-France, rue du Grand-Baisieux, 59 Baisieux.]

Switzerland—importer-distributor seeking direct purchase of destructive and non-destructive materials testing equipment for all kinds of materials, primarily metals, plastics, rubber and textiles; wanted for use in testing laboratories and in research and development operations of large industrial firms; exclusive sales rights for Switzerland requested. [Prufmaschinen AG, Wachtelstrasse 27, 8038 Zurich]

Vietnam—agency agreement being sought for floor tiles; agent requests samples and catalogs and asks that quotations c.i.f. and freight Saigon be indicated separately. [Ets. VAN Y, 141-143 Ham Nghi, P. O. Box 226, Saigon.]

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 44 of 56
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MEN ON THE MOVE

CANADIAN JOHNS-MANVILLE CO. LTD.

G. P. Loubert, Vice President and General Manager, announced three new executive positions at C.J-M, established to achieve greater marketing specialization. Appointed to the new positions were **William E. Hodgson,** Vice President and General Marketing Manager, Industrial Products; **Frederick K. Doty,** Vice President and General Marketing Manager, Construction and Building Products; and **John R. Ariss,** Vice President and General Marketing Manager, Pipe.

THE FLINTKOTE CO., INC.

Thomas F. O'Neil was elected as a member of the Board of Directors of Flintkote. He is Chairman of the Boards of General Tire and Rubber Company and of RKO General, Inc., and a Director of Horn & Hardart Company, New York.

PERSONAL ENVIRONMENT SYSTEMS, INC.

Edward Barbeau has joined PES as Marketing Manager. His prior business connections were with Techni-Rite Electronics, Ling Electronics and Bell & Howell.

RAYBESTOS-MANHATTAN, INC.

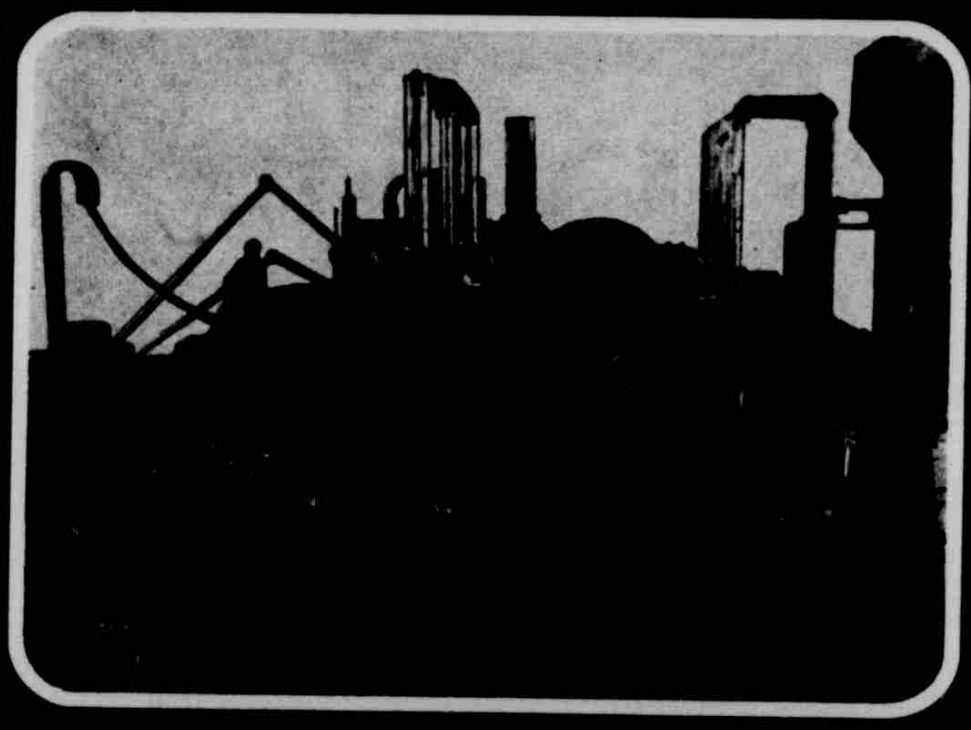
William Krucke, John F. Nikithser and **Harold J. Seeley** were appointed Marketing Managers, each responsible for specific product groups and their associated markets. Mr. Krucke has been with R/M since 1952. Mr. Nikithser joined the Passaic Division in 1951. Mr. Seeley joined the company in 1952. . . . **Walter T. Jensen** assumed the newly-created post of Western Field Sales Manager and **Raymond E. Stauffer, Jr.,** was promoted to Assistant Sales Manager. Mr. Jensen joined R/M in 1954 as a Sales Representative and has been Assistant Sales Manager since 1969. He assumes responsibility for Raybestos sales in the Pacific and Western zones of the U.S. Mr. Stauffer has been associated with the firm since 1967, and most recently was R/M's Corporate Director of Advertising and Public Relations.

UNIROYAL, INC.

Robert W. Vargo was named Corporate Purchasing Agent-Energy and **William C. Hass** is now Assistant Corporate Purchasing Agent-Textiles and Fibers. Mr. Vargo has been with Uniroyal since 1963 and Mr. Hass joined the company in 1965. Both men are headquartered at Uniroyal's new Oxford Management and Research Center, Middlebury, Connecticut.

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 46 of 56
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REPORTS & ARTICLES

Designing and Planning Open-Pit Mining Operations with Computer Simulation Solutions—an open-file report available for reference at the Central Library, U.S. Department of the Interior, Washington, D.C., and at Mining Research Centers of the Bureau of Mines at Pittsburgh, Pennsylvania; Denver, Colorado; Twin Cities, Minnesota; and Spokane, Washington.

Reports on the Eagle Quadrangle area of Alaska—Analyses of Stream-Sediment and Rock Samples from the Southwestern and Central parts of the Eagle Quadrangle, Alaska (No. 423, 1970, 136 pages); Analyses of Stream-Sediment and Rock Samples from the Eastern Part of the Eagle Quadrangle, East-Central Alaska (No. 468, 1971, 54 pages); Analyses of Stream-Sediment and Rock Samples from the Northwestern Part of the Eagle Quadrangle, East-Central Alaska (No. 469, 1971, 72 pages); and Maps Showing Distribution of Anomalous Amounts of Selected Elements in Stream-Sediment and Rock Samples from the Eagle Quadrangle, East-Central Alaska (No. 470, 1971, 6 pages). [open-file reports available for reference at the U.S. Geological Survey; available for reproduction through the Technical Data Unit, Alaskan Mineral Resources Branch, USGS, Menlo Park, California 94025]

ASTM Articles—two interesting articles that appeared in the February 1972 issue of the ASTM publication "Materials Research and Standards" are New Quality Parameters for Gasket Selection, by N. Jonnes, and Computer-Aided Mechanical Testing of Composites, by E. M. Wu & K. L. Jerina; the latter article describes the development of a testing system using small real-time computers for characterizing the mechanical properties of composites and specifically, discusses major system requirements for the deformation and strength properties of anisotropic composites. [for further information, contact the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa. 19103]

Magnetic Properties of Asbestos, with Special Reference to the Determination of Absolute Magnetite Contents—absolute magnetite contents were determined for asbestos specimens in various stages of milling by using a Faraday-type thermomagnetic balance; comparison of these results with magnetic ratings supplied by the mining companies cooperating in the study reveals strong scatter. [December 1971 issue of the CIM Bulletin, pages 55-59; reprints of most Technical Papers published in the CIM Bulletin are available at $2.00 per copy from The Canadian Institute of Mining and Matallurgy, Suite 906, 1117 Ste. Catherine Street West, Montreal 110, Quebec]

Have you ordered your copy of

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NEW ASBESTOS PATENTS

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

U.S. 3,613,658—a composition for lighting campfires, fires in stoves and fireplaces, or for protecting crops in cold weather comprises 75-99.8% of beeswax, ozocerite or other suitable natural or artificial wax and 0.2-25% of Group 7 milled Canadian Chrysotile asbestos to increase the burning rate of the composition; E. C. Knowles; assigned to Texaco Inc., October 19, 1971; 9 pages.

U.S. 3,614,868—in a method for stabilizing walls of a trench in porous earth, an aqueous slurry of asbestos and bentonite is flowed into the trench and allowed to penetrate and gradually seal the voids in the walls; M. Shinozaki; assigned to Takenaka Komuten Co. Ltd.; October 26, 1971; 7 pages.

U.S. 3,616,171—a skin-covered composite article is formed of a foamed core and a vinyl resin skin separated by a layer of asbestos fibers which are up to 100 mils in length; J. D. Hoskinson, Sr.; assigned to The Goodyear Tire & Rubber Co.; October 26, 1971; 3 pages.

U.S. 3,617,321—a dry mix for blending with water and spraying onto ceilings comprises 5-35% by weight of expanded perlite, 10-40% of fibrous talc, 1-5% of asbestos shorts or floats, 1-4% of an organic binder, 15-30% of a low-cost inert filler, and up to 1% of a cross-linking agent; R. C. Kent; assigned to Armstrong Cork Co., November 2, 1971; 2 pages.

U.S. 3,617,329—in the coating of a roof, crude asbestos is subjected to a special fluffing procedure, the fluffed fibers mixed with a steam-reduced liquid asphalt and usual diluents, and the mix applied in a "cold" condition; M. F. Goff; November 2, 1971; 6 pages.

U.S. 3,618,680—a fluid for use in drilling holes in permafrost in an Arctic environment consists of a suitable oil, a small amount of asbestos and a limited amount of water, this fluid coats the wall of the hole against sloughing; J. D. Ellard & L Bone; assigned to Atlantic Richfield Co.; November 9, 1971; 4 pages.

U.S. 3,619,228—a composition for patching plywood consists of (1) 45-72% by weight of a mixture of a polyester resin and an ethylenically-unsaturated monomer, (2) 0-10% of vinyl toluene, and (3) 28-45% of asbestos, clay, whiting or other inert filler; E. G. Hallonquist & M. M. Honnige; assigned to MacMillan Bloedel Ltd.; November 9, 1971; 4 pages.

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 50 of 56
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CALENDAR OF EVENTS

Seminar on Asbestos—sponsored by the Illinois Institute of Technology Research Institute, Chicago, Illinois; *April 4-7.*

ASTM Committee D-30 on High Modulus Fibers and Their Composites—meeting will feature a symposium on the analysis of test methods for high modulus fibers and composites; Convention Center, San Antonio, Texas; *April 10-14.*

Containerization and Cargo Handling Exhibition—Intex, West Toronto, Ontario, Canada; *April 18-20.*

Lower-Cost Housing Problems—2nd International Symposium; University of Missouri-Rolla, St. Louis, Missouri; *April 24-26.*

Performance Concept in Buildings—joint RILEM-ASTM-CIB Symposium; ASTM headquarters, Philadelphia, Pennsylvania; *May 2-5.*

Fracture and Fatigue Symposium—School of Engineering and Applied Science, George Washington University, Washington, D.C.; *May 3-5.*

International Exhibition of Techniques and Equipment Against Pollution—Ente Autonomo Fiera de Padova, Padua, Italy; *May 3-7.*

Design Engineering Show and Conference—McCormick Place, Chicago, Illinois; *May 8-11.*

Tire Traction Symposium—sponsored by ASTM Committee F-9 on Tires in cooperation with ASTM Committee E-17 on Skid Resistance; Ramada Inn, Lanham, Maryland; *May 10.*

SWICA Spring Convention—Southwest Insulation Contractors Association; Houston Oaks Hotel, Houston, Texas; *May 10-12.*

2nd National Conference for the Building Team—Albert Thomas Convention Center, Houston, Texas; *May 10-12.*

Composite Materials in Engineering Design—6th St. Louis Symposium; sponsored by Monsanto Company and Washington University; Colony Motor Hotel, St. Louis, Missouri; *May 11-12.*

EASICA Spring Trade Show—Eastern Atlantic States Insulation Contractors Association; Chalfonte-Haddon Hall, Atlantic City, New Jersey; *May 11-12.*

International Industrial and Engineering Materials Exhibition and Modern Engineering Design and Materials Show—Industrial Daily News, Tokyo, Japan; *May 11-16.*

U.S. Solo Exhibition—selected industrial equipment; Teheran, Iran; *May 13-18.*

ASTM Committee G-3 on Deterioration of Nonmetallic Materials—Sheraton Boston, Boston, Massachusetts; *May 14-19.*

Asbestos Magazine, 1972, March 1972
ACL Doc 12659 · Page 52 of 56
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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

But we have. Say 'Scandura' and you've said it all.



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Remember When?

(March 1922 ASBESTOS)

An article in this issue described the function of asbestos as a coating for rods used in electric arc welding. The arc welding process was relatively new at the time and was just starting to replace riveting as the prime method of joining metals.

With great regret, ASBESTOS reported the death of The Hon. George R. Smith on February 20, at Thetford Mines, Quebec, Canada. Mr. Smith was Manager of the Bell Asbestos Mines and was well known throughout the entire Asbestos Industry.

The Black Lake Asbestos & Chrome Co. reported total income of $132,244 in 1921 against $195,668 in 1920 and a loss of $65,932 in 1921 against a profit of $1,509 in 1920.

J. C. Johnston, for some time General Manager of the American Asbestos Co., Norristown, Pa., announced his intention to organize the Atlas Asbestos Company for the manufacture and sale of a general line of asbestos textiles.

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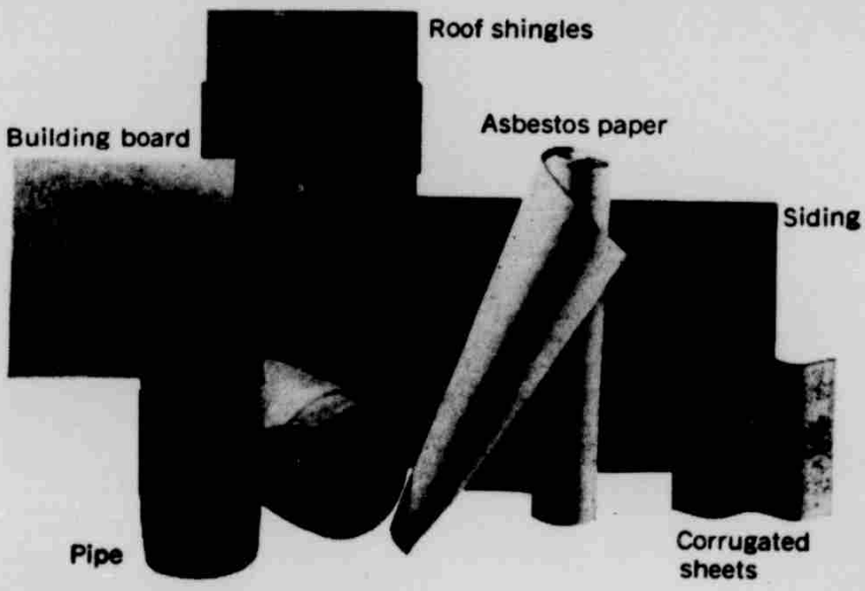
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