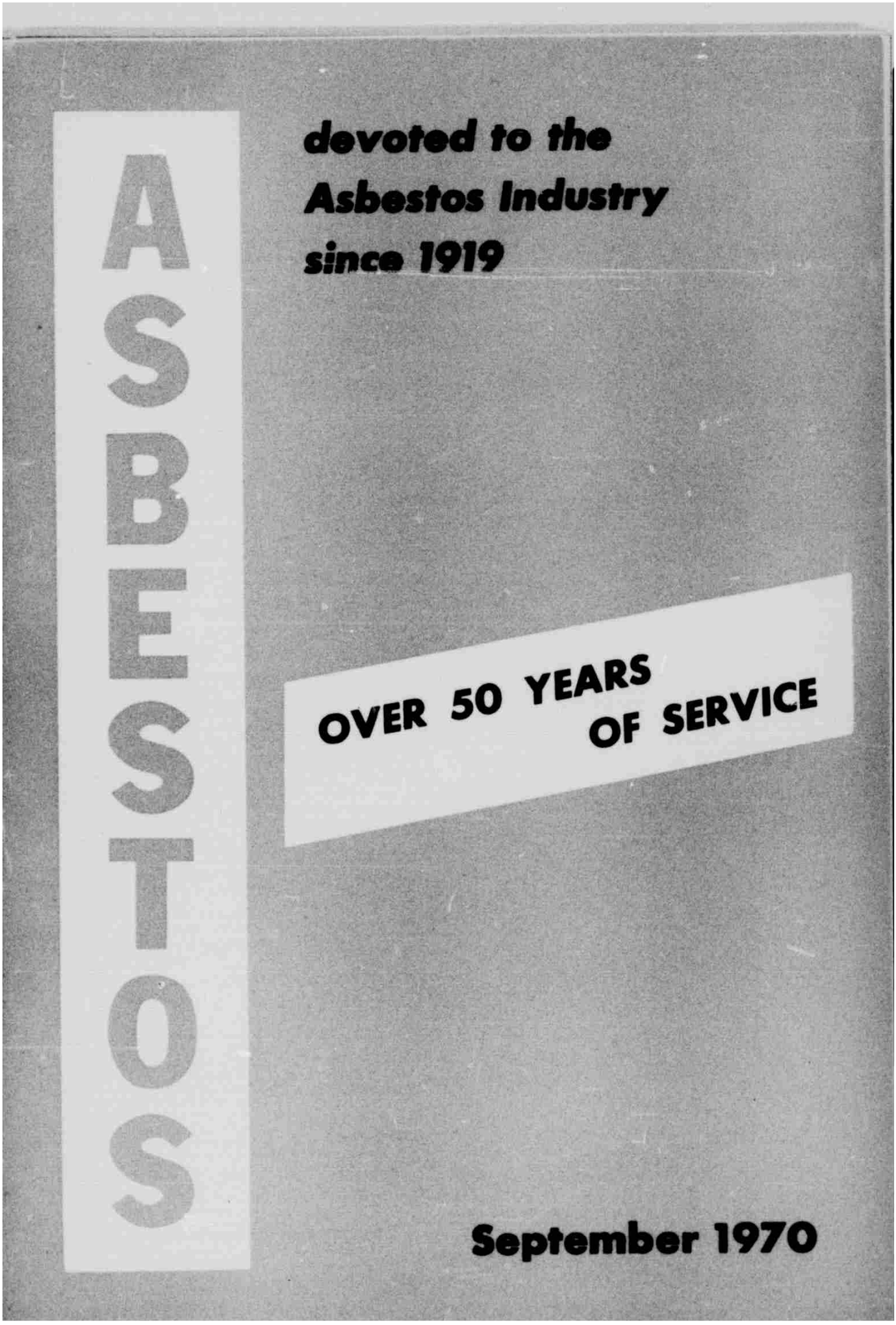


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ASBESTOS TEXTILE DIVISION BRIDGEPORT, CONN. 06603

ASBESTOS

VOLUME 52 SEPTEMBER 1970 NUMBER 3

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter II: Johns-Manville Corporation

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

The history of Johns-Manville Corporation starts with the establishment of a modest, one-man, one-employee business at 120 Wall Street, New York City, in the year 1858. The 21-year-old proprietor, Henry Ward Johns, was a man of vision and great capacity. He directed his firm from a humble beginning through boom times and panic to achieve the status of a major manufacturer in his own lifetime. He was still company president at the time of his death in 1898.

The original product made at 120 Wall Street (in the heart of what is now New York's financial district) was a laminated fire-resistant roofing material containing asbestos. The company's first patent, issued February 29, 1868, covered a product of this description. The company was formally organized as the H. W. Johns Manufacturing Company in 1874 with 1500 shares and a capitalization of $150,000.

In 1876 manufacturing facilities were moved to a waterfront location in Brooklyn, New York. This was to be manufacturing headquarters until 1912 when much larger and more modern facilities were established at Manville, New Jersey.

In those days the telephone was not yet in common use. Communication between the New York Office at 87 Maiden Lane and the factory in Brooklyn was maintained by messenger service. The first direct communication was by telegraph. Electric typewriters on both ends of the line, similar to the present-day TWX, speeded communications.

On March 13, 1886, C. B. Manville founded the Manville Covering Company in Milwaukee, Wisconsin. There was at that time no financial relationship with the H. W. Johns Manufacturing Company. The association between the two companies started a few years later with Manville becoming a distributor for Johns' products.

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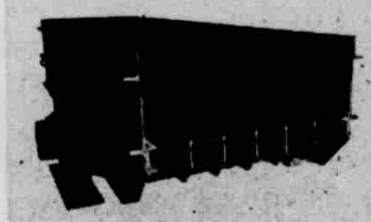
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In 1892 Mr. Johns realized one of his greatest ambitions. He consolidated five of the six major companies which at that time comprised the Asbestos Industry in the United States. The merger brought together H. W. Johns Manufacturing Company and Chalmers-Spence Company of New York City, Shields & Brown of Philadelphia, and two Boston firms, Asbestos Packing Company and C. W. Trainer & Company. The firm carried on under the name "H. W. Johns Manufacturing Company." The Manville Covering Company continued as western distributor for Johns' products.

It was not until 1901, three years after the death of H. W. Johns, that the Manville Covering Company merged with H. W. Johns Manufacturing Company and the present company was incorporated as the H. W. Johns-Manville Company. T. F. Manville became the new company's first President.

Now to pick up the thread of the asbestos textile story—Asbestos cards were installed in the Brooklyn plant between 1876 and 1880. Prior to that date H. W. Johns Company had sold asbestos cloth and other asbestos textiles imported principally from England.

There are preserved in the J-M archives two general catalogs, one dated 1884 and the other dated 1890. Both of these early catalogs offered surprisingly complete lines of asbestos textiles and asbestos packings. The catalog issued in 1884 included yarn, cord, twine, thread, cloth and print-roller cloth. The 1890 catalog added asbestos mittens, screens, shields, covers, rugs and fireproof theater curtains.

Prices listed in the 1890 catalog for "pure" asbestos cloth are equivalent to present day prices for commercial grade cloth. The catalog description is interesting in itself:

STRICTLY PURE ASBESTOS CLOTH

Standard Thickness	Approx. Weight (Oz. per Sq. Ft.)	Equivalent to (Lbs./Sq. Yd.)	Price Per Yd. (36" Wide)
Fine	3-1/8	(1.76)	$2.00
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Heavy	6-1/4	(3.51)	3.00

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NEWS

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In 1892 F. W. Jewett was Superintendent of the Brooklyn plant. He designed the first asbestos theater curtains used in this Country. Company records show that for some years thereafter theater curtains constituted the major market for asbestos cloth. This may seem difficult to believe, considering the relative unimportance of the present-day market for such curtains. It should be remembered, however, that in 1892 most of today's major markets for asbestos cloth had not yet begun to be developed.

In the early days of the theater, the stage lighting was provided by open gas flames.

These devices generated very high temperatures and contact with them or even close proximity to them could easily set fire to any flammable material. Hence, theater fires were not uncommon and many were of disastrous proportions, making municipalities and the public in general keenly aware of the need for improved fire protection in theaters. The ability of an asbestos curtain, dropped between the footlights and the audience, to confine the fire to the stage and isolate the audience from the flames was quickly recognized as an excellent safety factor and many cities passed ordinances making asbestos stage curtains mandatory. Considering the thousands of theaters waiting to be equipped—and the yardage of cloth used in each curtain—we can visualize a sizeable market for a number of years.

Many of us can remember when theaters made sure the audience was apprised of the fact the building in which they were seated was duly equipped with an asbestos curtain. When the performance was ready to begin, the graceful proscenium curtain was raised, disclosing a second curtain with "asbestos" painted in the center of the curtain in letters at least a foot high. Over the years the Industry has had few such potent silent salesmen.

High school auditoriums represent the major portion of the present-day market for asbestos theater curtains, which are designed to last the life of the building. This permanence is a good illustration of one of the principal virtues of our basic raw material—asbestos.

In 1877 the Johns' textile mill in Brooklyn first started using Canadian Chrysotile asbestos fiber. According to the

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best available information the prior source had been an asbestos mine on Staten Island, New York.

In 1910 the demand for friction materials led to expanded textile production, principally in asbestos-metallic cloth for folded- and compressed-type brake linings.

In 1912 manufacturing operations including the textile mill were moved from Brooklyn to larger and more modern quarters at Manville, New Jersey. In the same year J-M opened its own headquarters building at 292 Madison Avenue, New York City.

In 1920 the company name became Johns-Manville, Inc. It was in that year that Stephen V. Dillon joined the J-M sales force as a male stenographer. For the next 38 years Steve Dillon participated in the sale of J-M asbestos textiles. He headed the Textile Sales Department from January 1946 to December 1955. Steve was an early member of the Sales Promotion Committee of the Asbestos Textile Institute (ATI). He materially assisted the author in the preparation of this history of J-M's textile activities.

In 1926 the Manville family sold its stock to J. P. Morgan & Company to pave the way for a complete corporate reorganization. It was at this time T. F. (Tommy) Manville, Jr., ended all official association with the company. However, his marital exploits continued to make headlines in the press and, while most J-M people deplored what they felt to be unwelcome notoriety, the fact remains that flamboyant Tommy Manville, the "Asbestos Heir," succeeded in making his family name synonomous with asbestos in the minds of the general public and, truth to tell, may have been J-M's most successful single publicity agent—and all at his own expense.

In 1927 Johns-Manville stock was marketed by J. P. Morgan & Company to make J-M a publicly-owned corporation after 69 years of private ownership. Since January 1, 1927, the company has been known as Johns-Manville Corporation. Theodore F. Merseles, former President of Montgomery Ward & Company, was elected the first President of Johns-Manville Corporation.

In 1929 Mr. Merseles died and his assistant, Lewis H. Brown, was elected President at the age of 35. Mr. Brown proved to be a man of great foresight and enormous accom-

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plishment. He succeeded in keeping the company in the black even during the bitter depression years of 1930-32. He was a great innovator. Space does not permit, in this brief history, a list of his many accomplishments but perhaps a few examples will suffice: 1931, J-M was the first company to offer building materials on a time-payment plan; 1934, Mr. Brown assisted in formulating the National Housing Act including FHA (the Federal Housing Administration) which stimulated home construction, modernization and ownership; 1937, J-M established the 40-hour work week and additional wages for overtime before either was required by law.

In 1930 the appointment of Francis J. Wakem as Product Manager of Asbestos Textiles ushered in a period of more aggressive selling of these products on the part of J-M. In January 1946 Frank Wakem was promoted to Vice President for Merchandising of all industrial products, including asbestos textiles. In January 1956 he was appointed a Vice President of Johns-Manville Sales Corporation and General Manager of the newly-formed Packing & Friction Materials Division, which again included responsibility for asbestos textiles. Frank Wakem was a staunch supporter of ATI. He served as its sixth President in 1955 and 1956 and represented J-M on the Institute's Board of Governors from about 1947 until failing health dictated his retirement in 1957.

In 1933 J-M relocated its headquarters to the new Johns-Manville Building at 22 East 40th Street, New York City.

In 1940, fifty sets of cards and 21 spinning mules were in use at Manville. Monthly asbestos textile production was about 750,000 pounds.

In 1941 J-M undertook operation of the Kansas Ordnance Plant. This was a shell-loading plant which eventually employed 15,000 people. Clinton B. Burnett was Plant Manager. Operations were discontinued by the Government in 1945.

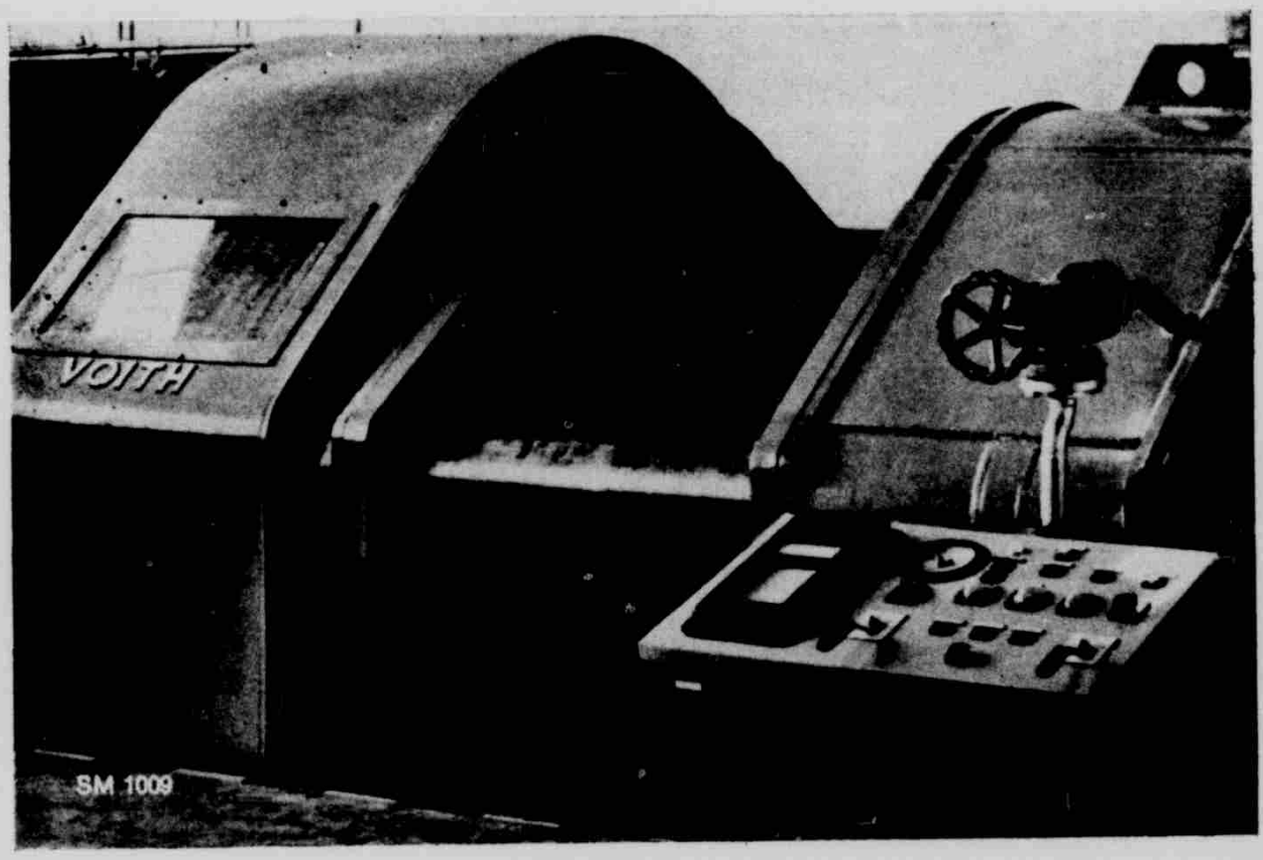
On V-E Day, May 7, 1945, the company roster of men and women in service totaled 4696 people. Of these, 115 had died in the service of their Country.

In 1945 Louis R. Hoff was President of the J-M Sales Corporation. It was Roy Hoff who convinced the senior officials of the asbestos textile industry that the industry needed

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a trade association. This was a very considerable accomplishment in view of the bitter rivalries and animosities carried over from the depression years. Roy Hoff was, to a very large extent, the father of the Asbestos Textile Institute, and a Charter Member of its Board of Governors. He retained his active interest in ATI even after his retirement from J-M in 1948.

Leslie M. Cassidy succeeded to the presidency of Johns-Manville in 1948. Upon the death of Lewis H. Brown in February 1951, Les Cassidy moved up to Chairman of the company and Adrain R. Fisher was elected President.

In 1951 construction was started on the largest asbestos fiber mill in the world at Jeffrey Mine, Asbestos, P.Q., Canada. Jeffrey Mine has been in operation since 1912 and is now the free world's largest asbestos mine. J-M also owns asbestos mines at Reeves Township, Ontario, and Coalinga, California. Additionally J-M has a minority interest in an asbestos mine it operates at Baie Verte, Newfoundland (Advocate Mines Limited). All asbestos mining operations are under the supervision of Vice President Karl V. Lindell.

In January 1956 William S. Hough was appointed Product Manager for Asbestos Packings & Textiles. Bill Hough joined J-M in 1926 as a Research Chemist at the Manville plant. In 1929 he was transferred to a sales position. In 1936 he was appointed Staff Manager of Packing—Asbestos Textiles & Friction Materials, in 1943 to Manager of Aviation and Chemical Industries Sales, and from 1948 through 1955 he served as Chicago District Sales Manager. In 1963 Mr. Hough was instrumental in effecting the purchase by J-M of the Marshville, North Carolina, plant of the Union Asbestos & Rubber Company. Bill Hough served as President of ATI in 1961 and 1962. He retired from J-M in March 1967 and was succeeded by Roy M. Billings, General Marketing Manager, Packings and Textiles. (Bill Hough is currently Secretary-Treasurer of the Fluid Sealing Association, the former Mechanical Packing Association.)

In 1952 Edward A. Schuman joined J-M as Staff Manager for Asbestos Textiles under Steve Dillon. Ed Schuman deserves much of the credit for the development and expansion of the J-M line of asbestos textiles. In 1963 he was appointed Product Manager for Asbestos Textiles. He was,

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ASBESTOS FIBRES

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for many years, an active member of ATI's Sales Promotion Committee. Mr. Schuman currently serves the industry as President of the Institute.

In 1957 Adrain R. Fisher was elected Chairman and President of Johns-Manville, succeeding Les Cassidy who retired due to ill health. Clinton B. Burnett was named Executive Vice President. Effective January 1, 1960, Mr. Burnett was elected President of J-M, the position he still holds.

Most J-M veterans think of Phillip D. Cannon when they think of asbestos textile production at Manville. From the early 1920's through 1937 Phil Cannon was Manager of the asbestos textile mill and from 1938 to 1945 he managed the entire Manville factory. In 1946 he was elected a Vice President and supervised all J-M industrial products plants throughout the country. From 1956 through 1960 he was Vice President — Production of all plants in the Packing & Friction Materials Division.

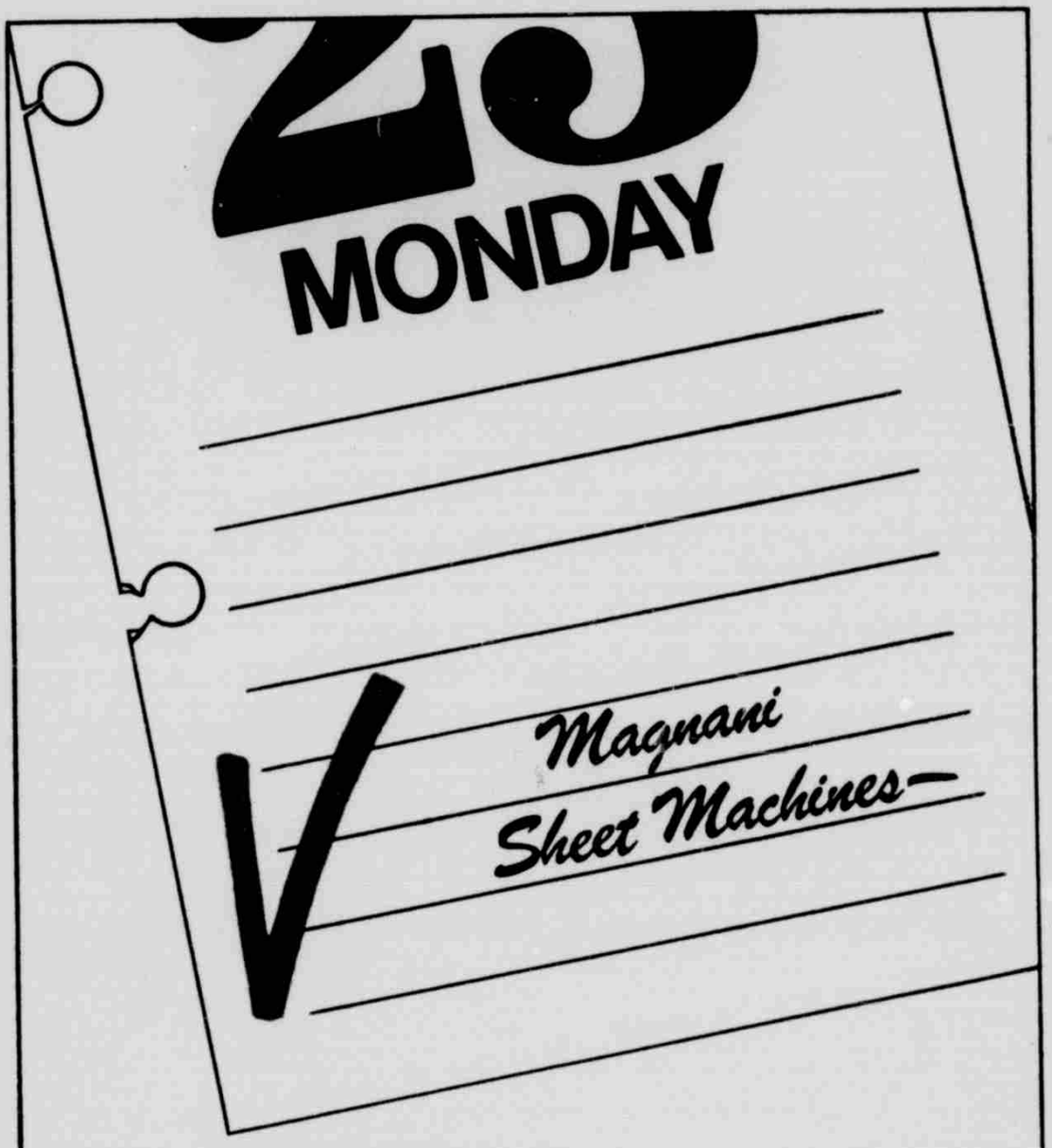
From 1937 to 1957 Richard Jackson was Superintendent of the asbestos textile mill at Manville. He was succeeded by Walter C. Atkinson, a 1925 graduate of the Textile School of the Rhode Island School of Design. Walter Atkinson joined J-M in 1934 as overseer of spinning and twisting. He was, for many years, an active member of ATI's Air Hygiene & Manufacturing Committee.

In 1963 Edward H. Wells was appointed Vice President of the J-M Sales Corporation and General Manager of the Packing & Friction Materials Division. His responsibilities included the manufacture and sale of the complete J-M lines of asbestos textiles, packings and friction materials. Ed Wells retired in December 1968 and was succeeded by Henry B. Moreno as General Manager of the Division. Henry Moreno's current position at J-M is Corporate Assistant Vice President for the Industrial Divisions.

With 46 domestic manufacturing plants and annual sales in excess of a half billion dollars, Johns-Manville is today a very important factor in the national industrial economy.

Johns-Manville participates in almost every facet of the Asbestos Industry and is the largest producer of asbestos-

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based products in the United States. J-M research continually adds new and improved products to an already comprehensive line of products. It is progressive companies like J-M which enable the United States to lead the world in providing better products for the comfort and safety of all mankind.

Ensuing chapters of this "History of the Asbestos Textile Industry in the United States" will appear in future issues of ASBESTOS.

ASBESTOS is considering having reprints made either of individual chapters or of the complete series of articles in booklet form on "The History of the Asbestos Textile Industry in the United States." Knowing our readers' thoughts will enable us to determine the advisability of such an effort.

We would appreciate hearing from any of you who are interested in securing reprints of single chapters or complete booklets, including whether you would like only one copy or would order in bulk quantities.

NEW FMSI OFFICERS—At the annual meeting of the Friction Materials Standards Institute, Inc., held in June at Skytop Lodge in Pennsylvania, the following officers were elected for the year from July 1: President, Stephen S. Conway, Jr., Abex Corporation; Vice President, Joseph W. Greenen, Maremont Corporation; Treasurer, Allan E. Daly, Scandura, Inc.; and Secretary, Miss Harriet G. Duschek.

Other members of the Board of Directors are William Simon of Brassbestos Manufacturing Corporation, Frank T. Gatke of Gatke Corporation, James L. McGovern, Jr., of Raybestos-Manhattan, Inc., John H. Kelly of the Krasne Division of Royal Industries, and Carl J. Weber of World Bestos Company, Division of The Firestone Tire & Rubber Company.

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ASTM COMMITTEE MEETINGS — Some of the Committee meetings scheduled for October by the American Society for Testing and Materials are: Committee C-16 on Thermal Insulation, Williamsburg Inn & Motor House, Williamsburg, Virginia, October 4-7; Committee C-24 on Building Joint Sealants (Executive), ASTM Headquarters, Philadelphia, Pennsylvania, October 6; Committee F-3 on Gaskets, Skyline Hotel, Toronto, Canada, October 7-9; and Committee D-13 on Textile Materials, Belmont Plaza Hotel, New York City, October 12-16.

ASTM SYMPOSIUM — A "Symposium on High Performance Fibers — Properties, Applications and Test Methods" will be held November 17-18 in Williamsburg, Virginia. Sponsored by ASTM's Committee D-30 on High Modulus Fibers and Their Composites, the Symposium will encompass the areas of fiber test methods, mechanical properties and correlation of properties and test methods with specialty applications. It will provide a forum for discussion of analytical and experimental studies leading to an understanding of the mechanisms pertaining to the behavior of advanced fibers for the reinforced resin and metal matrix composites.

A CALL FOR PAPERS is being issued for a "National Symposium on Testing for Prediction of Materials Performance in Structures and Components" to be held April 21-23, 1971, at the Convention Center in Anaheim, California. The Symposium is cosponsored by ASTM and the National Materials Advisory Board (NMAB), part of the National Academy of Engineering/Sciences. It will be held concurrently with conferences on related subjects to be held by the American Institute of Aeronautics and Astronautics, Inc., and the Society of Aerospace Materials and Process Engineers. The six scheduled sessions will cover the design of tests, modeling, data reduction and extrapolation; electronic piece parts and component testing; radiation effect testing; economic implications of testing; and mechanical effect testing.

Anyone interested in submitting a paper for presentation at the Symposium should contact Dr. R. S. Shane, Staff Scientist, NMAB, National Academy of Sciences, 2101 Constitution Avenue N.W., Washington, D.C. 20418.

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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.

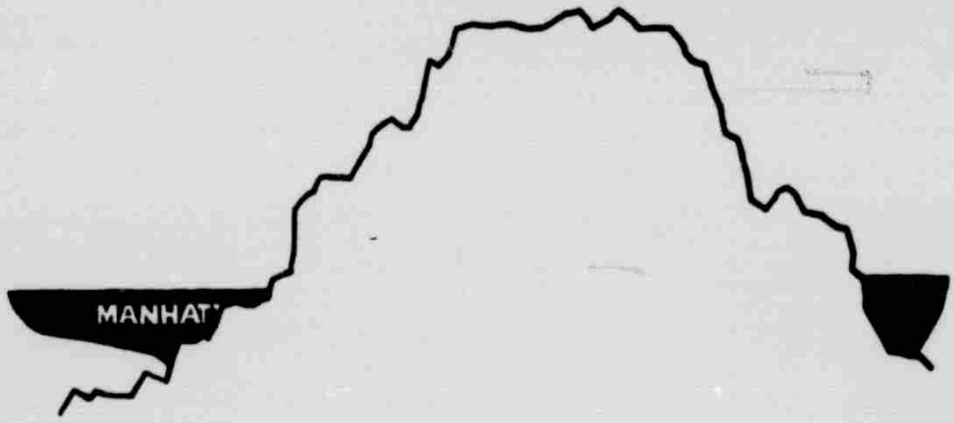
Chemically stable and resistant to water damage, asbestos will neither burn nor rot. And it easily withstands severe atmospheric changes.

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



WANDEL CENTENARY — On the occasion of its 100th Anniversary in December, 1969, *Chr. Wandel KG*, Reutlingen, Western Germany, dedicated to its business friends and associates a bibliophilic contribution to the history of paper. It was felt by Wandel that the booklet would be a more lasting souvenir than a celebration or the usual type of anniversary booklet. In fact, the history of Christian Wandel (manufacturers of wire cloth and machinery for the paper industry) had already been detailed in such a booklet 15 years ago.

Wandel reports that, by chance, a 100-page booklet was discovered, printed in 1699, describing the "Preiswurdige Pappiermacher-Kunst" (The Most Honorable Papermakers' Art). The company has every reason to believe the publication was something unique, as detailed descriptions of professions of this kind were quite unusual at that early date.

Wandel has reprinted the booklet in facsimile print and since its business is so closely connected to the art of making paper, the firm included a brief record of its 100-year history as a preface to the 100 pages of the ancient book.

NRCA ROOFING MANUAL—The knowledge of a great number of competent roofing contractors has been compiled in the new "NRCA Roofing Manual." It contains chapters on Structural Decks, Vapor Barriers, Installation, Membranes, Factory Mutual and Underwriters Laboratory Requirements, 15 Specification Plates and 18 Details. NRCA worked closely with roofing contractor members in the preparation of the manual. Supplemental comment and aid were also received from the major trade and manufacturers' associations involved in roofing.

The manual is printed on high quality paper and is supplied in a durable five-ring binder. The initial purchase price includes a one-year revision service.

Single copies are $12.00 each, including postage and handling. Multiple copies sent to the same address are $10.00 each and invoice for postage and handling charges will be included with the shipment. Orders should include payment and a street address for shipping and should be sent to: National Roofing Contractors Association, 1515 North Harlem Avenue, Oak Park, Illinois 60302.

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AMMANN Asbestos Mill



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

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

U. AMMANN Ltd.

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

Cables: Ammannag Langenthal — Telex: Nr. 68446

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Automobile Sales

JUNE 1970 motor vehicle factory sales from plants in the *United States* totaled 990,955 (passenger cars—805,263; trucks and buses—185,692). The total for June 1969 was 940,874. The total for the FIRST HALF OF 1970 was 4,873,862 compared with 5,452,195 for the same period in 1969.

Motor vehicle factory sales from plants in *Canada* totaled 137,284 for June 1970 compared to 128,044 in June 1969. The total for the first six months of 1970 was 725,844 against 703,386 for the like period in 1969.

(The total of factory sales of trucks and buses for May 1970 from plants in the United States has been revised to 165,715. This revises the total motor vehicle factory sales in May 1970 to 890,129.)

BAUER APPOINTS MARKETING REPRESENTATIVES — In an expansion move by *The Bauer Bros. Co.*, a subsidiary of Combustion Engineering, Inc., *The Blakeslee Equipment Company,* Cleveland, Ohio, has been named to market Bauer Industrial Division equipment throughout the northern half of Ohio. Working with the head of the firm, J. R. Blakeslee, are J. D. FitzGerald and C. C. Taylor. Blakeslee is presently marketing spray driers, water treatment equipment, aftercoolers, separators, process heating and drying equipment, rotary mixers and ribbon blenders.

Bauer Bros. further announced the addition of *CBM Equipment Corporation,* Buffalo, New York, as exclusive representatives for its Industrial Division equipment in the upper New York State area. CBM was formed in 1969 by the current three principals of the company — H. P. Coulter, E. R. Bach and H. W. Markwardt — and handles such process equipment as homogenizers, colloid mills, mixers, pumps, liquid meters and controls and sight flow indicators.

The Industrial Division of Bauer manufactures processing systems and equipment for size reduction, classification, liquid expression, impregnation, dewatering and separation.

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ASBESTOS

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Canadian Asbestos Ontario Ltd.
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Toronto 2, Ont.

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Apartado Postal 8600
Mexico 1, D.F.

■ UNITED STATES

BALTIMORE, MD. 21202
Wallace & Gale Co.
115-119 So. Gay St.

BUFFALO, N.Y. 14210
Meyers Chemicals Inc.
290 Larkin St.

CHICAGO, ILL. 60645
Donald R. Fitzgerald Co.
5875 N. Lincoln Ave.

CINCINNATI, OHIO 45203
C. L. Zimmerman Co.
N 303 Cincinnati Union Terminal

CLEVELAND, OHIO 44102
Chem-Materials Co., Inc.
6400 Herman Avenue

DETROIT, MICH. 48219
Gerald J. Fahey
16772 Plainview Road

FORT WORTH, TEXAS 76106
Lehman-Phillips, Inc.
2550 Glendale Ave.

HAYWARD, CAL. 94544
Central Solvents & Chemicals Co.
31702 Hayman St.

KENT, WASH. 98031
Central Solvents & Chemicals Co.
7601 South 190th St.

NEW ORLEANS, LA. 70126
D. F. Condon Co.
Box 26012
Chef Menteur Station

NEW YORK, N.Y. 10007
Whittaker, Clark & Daniels, Inc.
100 Church St.

PHILADELPHIA, PA. 19140
Charles A. Wagner Co. Inc.
4455 N. 6th St.

PORTLAND, ORE. 97302
Central Solvents & Chemicals Co.
10821 North Lombard St.

ST. PAUL, MINN. 55114
MacArthur Co.
936 Raymond Ave.

SALT LAKE CITY, UTAH 84110
Central Solvents & Chemicals Co.
407 West 17th South St.

SANTA FE SPRINGS, CAL. 90670
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13900 Carmenita Road

SPOKANE, WASH. 99206
Central Solvents & Chemicals Co.
6308 East Sharp Avenue

53-68

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ECONOMIC INFORMATION SYSTEMS, INC., New York City, is offering a *Computerized Shipments Report on the Asbestos Products Industry (SIC Code 3292).* It lists the competitive ranking of 100 major asbestos products manufacturing plants with yearly shipments of $500,000 or more. The plants are ranked in order of importance as producing units.

The Report is furnished as a binder and contains four computer printouts. The first printout supplies, for each plant, a ranking number, the plant's name and address, its current estimated annual shipments and its percentage of total industry shipments. Printouts 2, 3 and 4 re-group and summarize the data in geographical units (states, counties, cities and zip code areas).

The Report on SIC 3292 is available at a cost of $25.00. Other Reports of specific interest concern SIC 3293 on Gaskets and Insulations ($25.00) and SIC 2661 on Building Paper and Board Mills ($20.00).

EIS Shipments Reports are offered for a total of 400 industries (175 metalworking and 225 non-metalworking) and the information they contain is always current as it is generated from a continuously up-dated magnetic tape file. These Reports could be useful tools for evaluating market and sales potential as well as studying the possibility and feasibility of acquiring certain manufacturing plants. A minimum order valued at $100 is required.

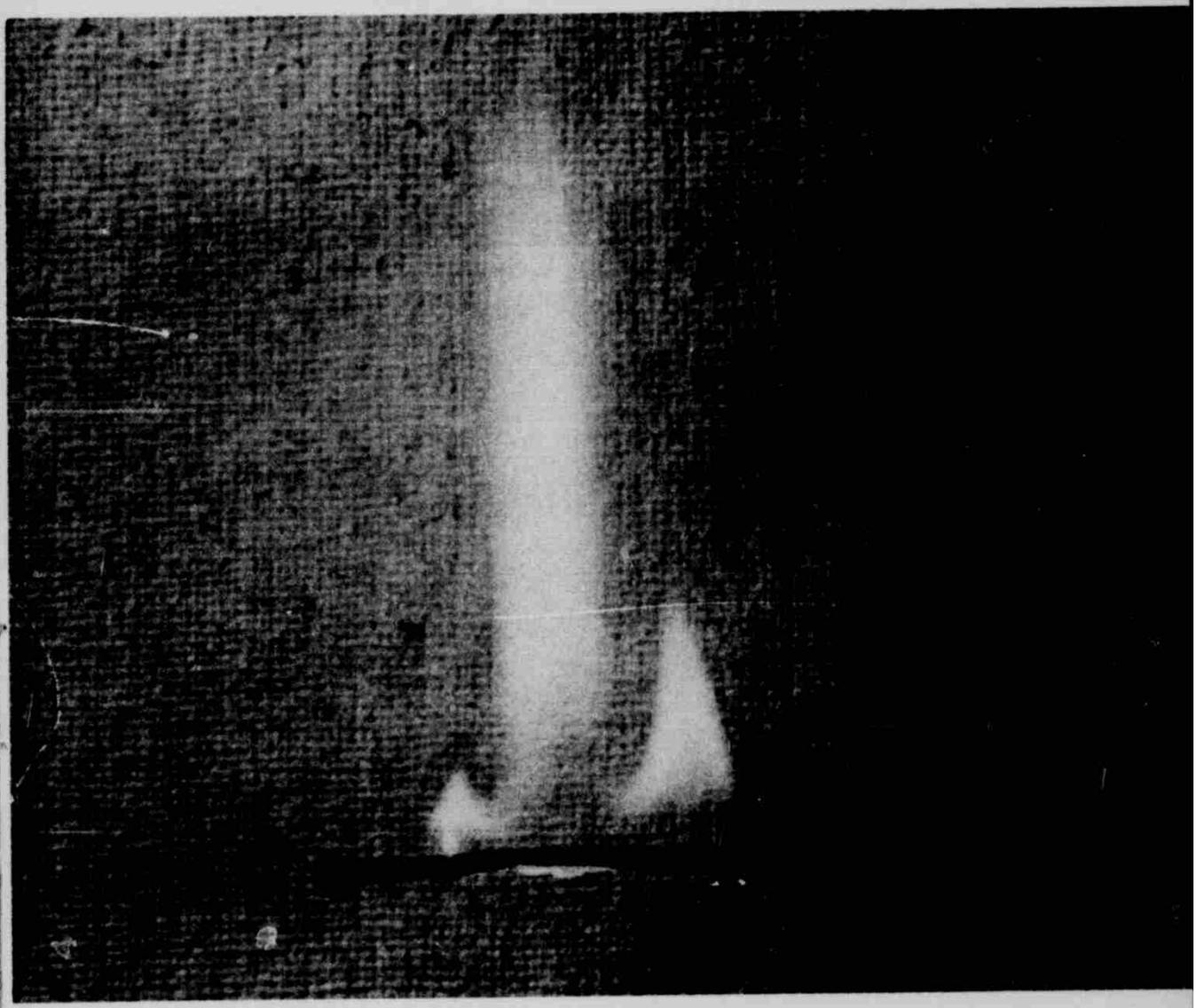
CANADIAN GOVERNMENT SPECIFICATIONS BOARD, Ottawa, issued *"Standard 34-GP-20a, for Asbestos-Fiber-Sprayed Insulation (with or without Mineral Wool)."* It is effective January 1970 and supersedes Standard 34-GP-20, issued April 1, 1960. The new Standard applies to a sprayed coating that consists of a uniform mixture of inorganic binder and asbestos fiber for building construction purposes.

"Standard 34-GP-7b, Methods of Sampling and Testing Asbestos-Cement Products," dated December 13, 1963, was cancelled as of April 1970 as it no longer was referenced in any CGSB material standards for asbestos-cement products.

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UNIROYAL

Asbeston protects naturally or unnaturally.



Naturally; since we combine asbestos with other natural fibers. And unnaturally; since we also can combine asbestos with man-made fibers including glass, acrylic, polyester and nylon.

As yarn or fabric, Asbeston® comes in the widest variety of weights and sizes for every application. For details, write to Uniroyal Fiber and Textile, 350 Columbia Road, Winnsboro, South Carolina 29180.

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S. A. ETERNIT, Brussels, Belgium, instituted the biennial and international *"Prize of Architecture"* and has announced the first awarding of the prize. It will be given to architects in Belgium, Holland and Luxembourg.

This year the First Prize of 175,000 Belgian francs was awarded to Claude Strebelle d'Ougree for the design of the central heating system of the Domaine Universitaire du Sart Tilman. Second Prize of 50,000 Belgian francs was given to Jean Pierre Blondel for his plans for a one-family house situated at Hoeilaart, Brussels.

ASARCO CLOSES PLANT—Within the next several months, American Smelting and Refining Company will close its lead smelting and refining plant at Selby, California. The plant has been in continuous operation for 85 years but a combination of rising costs completely beyond Asarco's control and changing patterns in world trade of lead have made the plant economically obsolescent.

SPROUT-WALDRON & COMPANY, INC., manufacturing engineers with offices in Muncy, Pennsylvania, has issued "Mixing & Blending Bulletin 3450" describing its two horizontal, ribbon-type mixers for laboratory and light production use. Model "K" is a constant-speed mixer for small-capacity production of dry or semi-dry materials. Model "305" has a jacketed body and variable speed drive to permit mixing products under different conditions of temperature and agitation in laboratory and experimental work.

Laboratory mixers are only one of Sprout-Waldron's broad and varied line of mixing equipment. Some models are used to handle brass chips, binders and asbestos fibers in the production of brake linings. Another model is utilized for the pneumatic unloading of asbestos fibers from railroad hopper cars. Also, according to the company, one firm has been investigating the possibility of using Sprout-Waldron's Roto-Claw mobile unloaders for pneumatic handling of asbestos delivered in box cars.

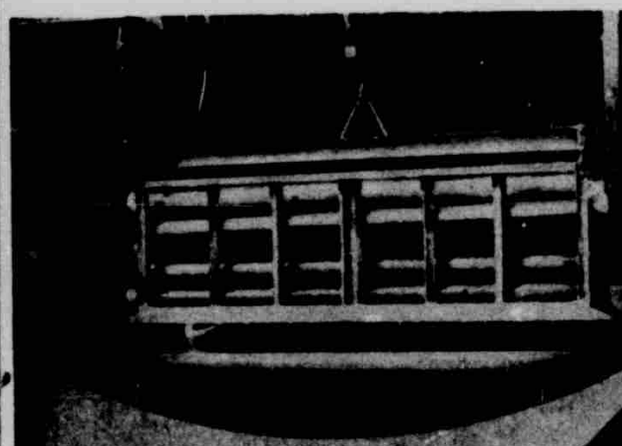
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AUTOMATIC PLANTS TO MAKE SOCKETED PIPES



AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

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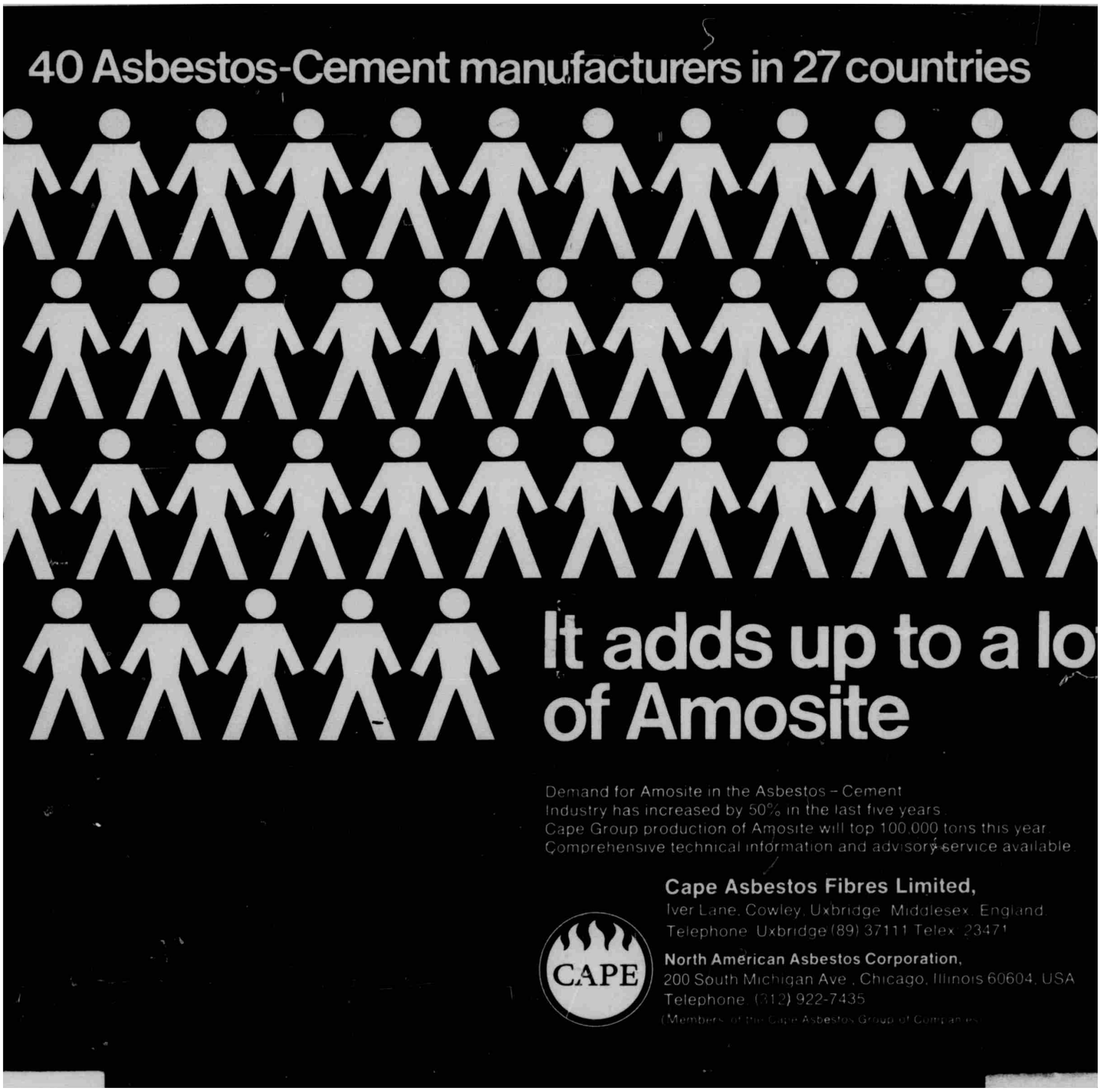
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It adds up to a lo
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MARKET CONDITIONS

General Business.

While government spokesmen are pointing to certain indicators as evidence the economic downtrend is bottoming out and that inflation has been at least moderated without a severe recession, prospects for a substantial upsurge during the balance of this year are rather dim. Businesses are still squeezed for cash and even though interest rates have eased somewhat the availability of cash for loans remains rather restricted. Negotiations between the automakers and their labor union have produced no settlements as yet and current predictions are that a strike will be called against at least one of the producers. This could have a depressing effect on general business later in the year and it would require something big in the way of good news to offset the negative effect of such a work stoppage.

Prices on U.S. stock exchanges rose substantially during August but many analysts are cautioning that improvements in business are not likely to occur at a pace which will match the sharp market rise and it may well be a considerable time before a sound base for a sustained rise is established.

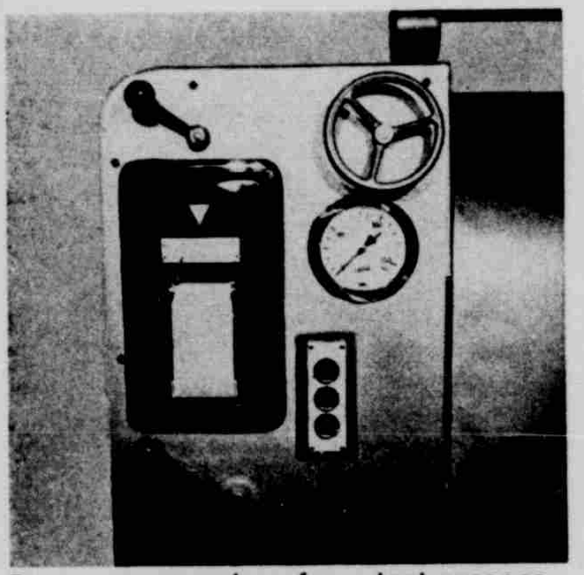
The international political situation remains clouded and, particularly in the Middle East, the picture changes so rapidly from day to day that it is anyone's guess as to when or if real progress will be made toward a solution of the problems of those involved.

UNIROYAL DIVIDENDS DECLARED—The Board of Directors of Uniroyal, Inc., declared a dividend of 17½c a share on its common stock, payable September 25 to stockholders of record August 24.

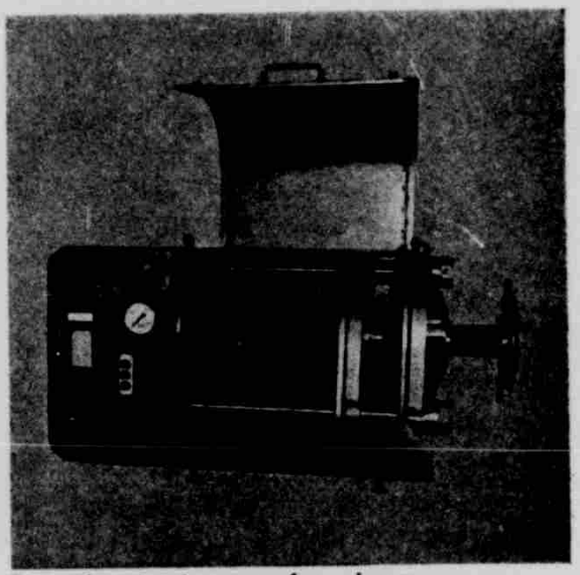
A dividend of $2.00 a share on the 8% first preferred stock was also declared by the Board and is payable September 25 to stockholders of record August 24.

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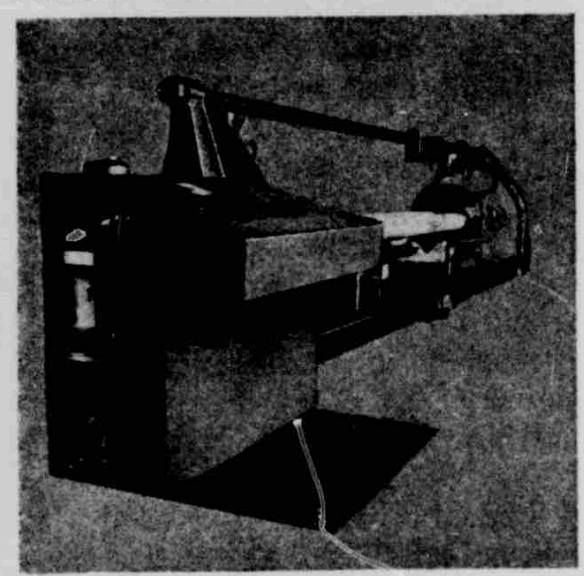
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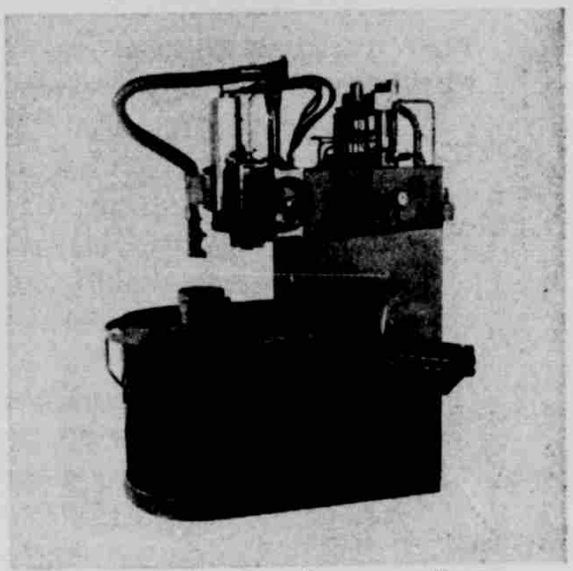
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Industrialized Building

This article is based on "The Challenge—Building A Second America," the first in a series of articles by Richard L. Bullock, Executive Director, Industrialized Building Exposition and Congress.

Today, the U.S. building industry faces its biggest challenge and opportunity since the end of World War II. In the course of a single generation, it must duplicate the current total inventory of shelter of all types to meet the basic needs of a growing nation. For instance, during the next decade the building industry must produce over 21 million new housing units—nearly 40% more than were produced in the 1960's. Industrialized building is the only sound answer.

The effectiveness of industrialized building is not theoretical. Systemized industrialized building techniques were used to rebuild a war-torn Europe during the past 20 years. In the United States, the growth of the pre-engineered building, mobile and factory-manufactured home businesses is mute testimony to a growing acceptance of industrialization.

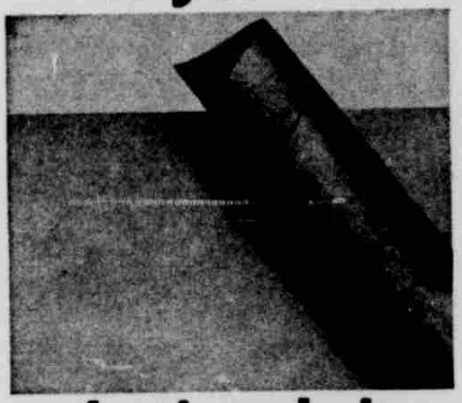
It is obviously true that an industry directly beset by high interest rates and a shortage of mortgage money cannot deliver the millions of housing units needed now by a growing population. But, if financing eased immediately, the building industry would still have to produce the answer to the problem of high costs, which price over half the population needing shelter out of the market. The escalation of housing costs is traceable to higher labor costs, increased cost of building materials and land and the slow erection of houses and apartments.

Labor is constantly blamed for most of the increased costs of homes because wages have increased 50% in the past ten years, against an 18.5% rise in cost of living. Also, labor is in short supply. In 1966, for example, 282,000 craftsmen left the construction industry *but* in that year only 16,000 men were trained by various apprenticeship programs. Faced with these sobering facts and the demonstrated need for 2.5 million new housing units or more per year in the 1970's, the home building industry is rapidly turning to industrialized or factory construction as the only answer.

Part of the change to industrialized building has already taken place in the mobile home industry, which this year

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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

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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
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NEW YORK, New York
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ASARCO

ASARCO INTERNATIONAL CORPORATION
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should build and sell 525,000 or more units. Mobile homes offer a low-cost shelter for $7000 or less which is not only attractive, but equipped with appliances and furniture.

During the past two years major housing producers have spent millions of dollars for research and feasibility studies to determine if similar factory production is possible for single-family homes and apartments which can be placed permanently on a plot of ground.

According to Mr. Bullock, the optimism for factory housing is founded on the following results of some basic marketing studies.

(1) A sustained, predictable demand for factory-produced housing is assured. Such soaring demand has never before existed in the United States.

(2) Young, professional management is now beginning to dominate the housing industry. They believe they can solve problems of unions, codes and financing.

(3) With volume production comes the ability to retain top designers. Factory-produced housing will become outstanding in appearance.

(4) Technology is already far advanced in materials, techniques and cost controls. Most plants will use computers to plan, estimate and schedule production and deliveries.

(5) The plants will have bargaining power for materials well beyond even larger builders. They will buy materials in vast quantities to their rigid specifications, often made expressly for factory housing.

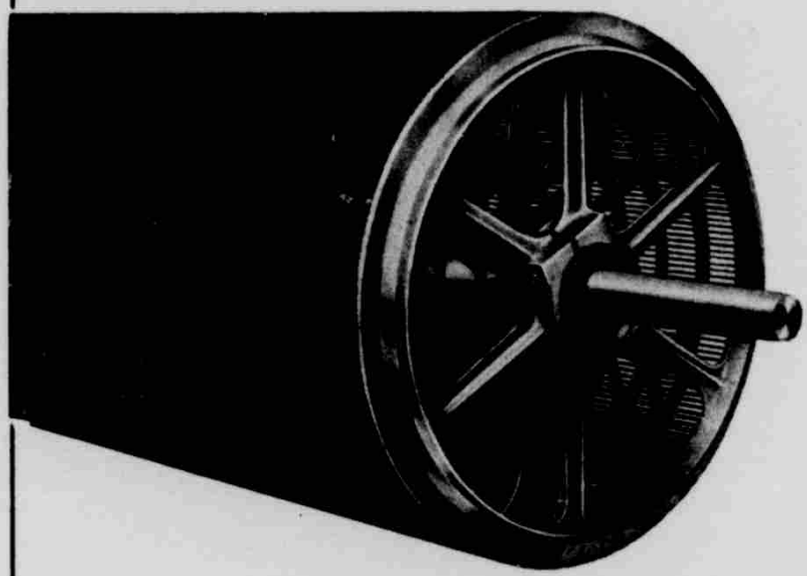
(6) It will be impossible to tell that a home or townhouse has been produced in a factory. If anything, it will look better than conventionally-built structures.

GOLD BOND WOODROCK, which gained wide acceptance in the residential building market as a clapboard siding, is now being introduced in panel form as an exterior substrate for commercial buildings. Manufactured by *National Gypsum Company,* Woodrock is a strong, tough, noncombustible material composed of Portland cement, inorganic asbestos fibers and specially-processed cellulose fibers.

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Construction News

From: McGraw-Hill Information Systems Company

JULY 1970—The value of contracts for new construction in July, at $6,177,780,000, held close to the level of the previous two months and was almost exactly equal to the July 1969 amount. Contract data confirmed earlier signs that housing has finally broken out of its slump and revealed a firm rebound from the very low May and June rates for industrial and commercial building. Offsetting July's gains in housing and nonresidential building was a sharp drop in contracts for electric utility and other types of nonbuilding construction.

Nonresidential Building—Reversing the pattern of the past two months, nonresidential building contracts in July totaled $2,469,489,000 and topped the July 1969 total by 5%. Current information suggests that business firms, with the reassurance of easier money conditions, have decided to proceed with their construction plans, although cautiously. One big project in July was the 110-story "Sears Tower" in Chicago, which will be the world's tallest building. But even without this $100 million structure, contracts for industrial and commercial building would still have indicated a firm recovery from the low level of the previous two months. Commercial building contract value was 30% ahead of the same 1969 month and industrial building showed a gain of 10% from a year ago.

Residential Building—The value of residential building contracts totaled $2,347,246,000 in July, a 5% improvement over the year-ago figure. Apartment contract value scored the best gain, 11%, and one-family housing value rose 3%. Contracting for hotels and motels, dormitories and other nonhousekeeping residential buildings declined 5%.

Nonbuilding Construction—Contracts for nonbuilding construction projects totaled only $1,361,054,000 in July and fell short of last July by 14%. Most of the drop was concentrated on electric generating facilities where contracting is normally erratic. Contracts for highway construction and for sewer and water facilities gained during July.

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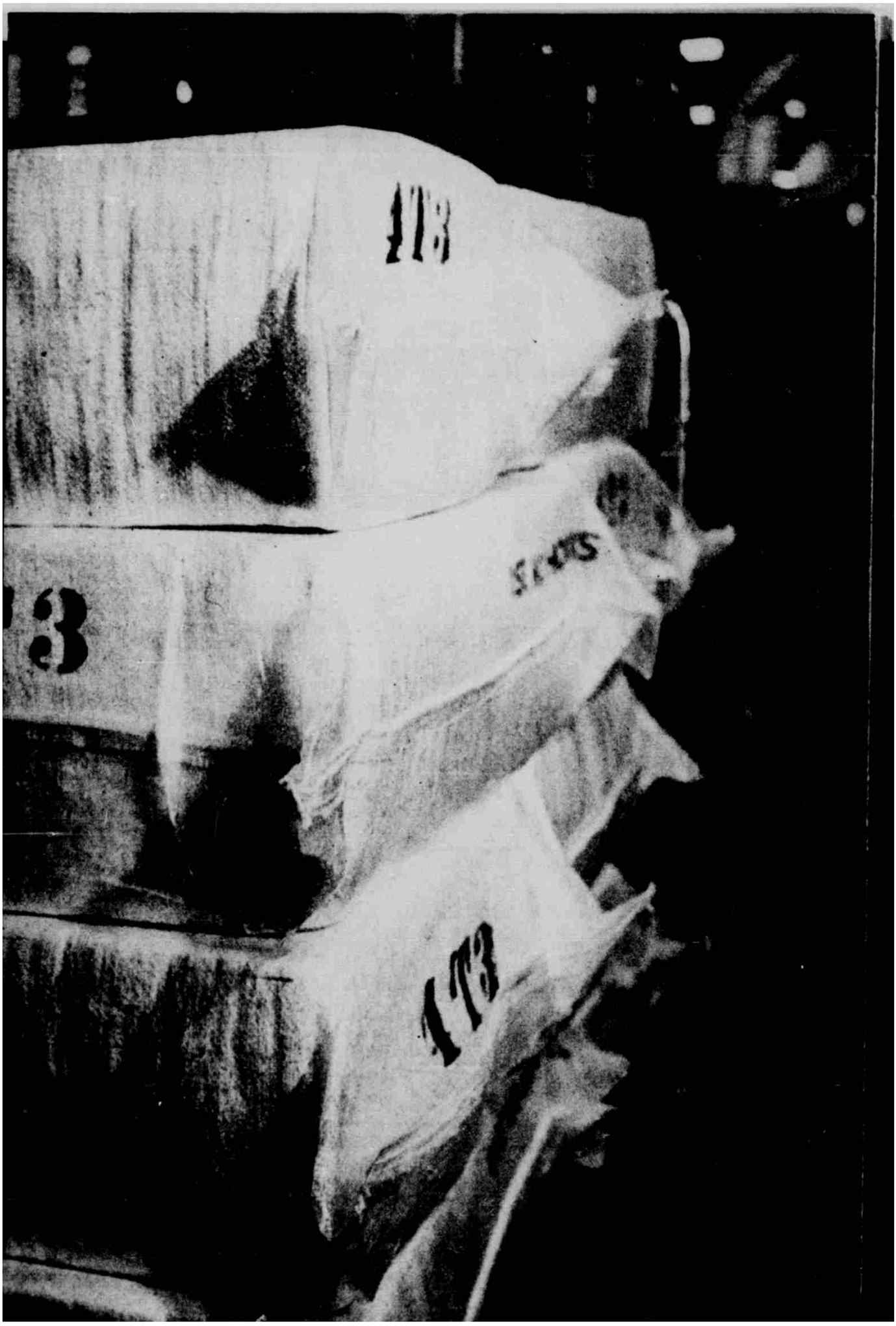
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NICA CONVENTION—The National Insulation Contractors Association will hold its 15th Annual Convention, October 4-8, at the Hilton Palacio del Rio in San Antonio, Texas. The theme of the event will be "Health-Safety-Training; The Challenge of the '70's."

The *Southwest Insulation Contractors Association* will hold its Fall Meeting on the same dates, in conjunction with NICA's Convention.

SOUTH EASTERN INSULATION CONTRACTORS ASSOCIATION's Fall Meeting will take place October 12-13 at the Waynesville Country Club Inn, Waynesville, North Carolina.

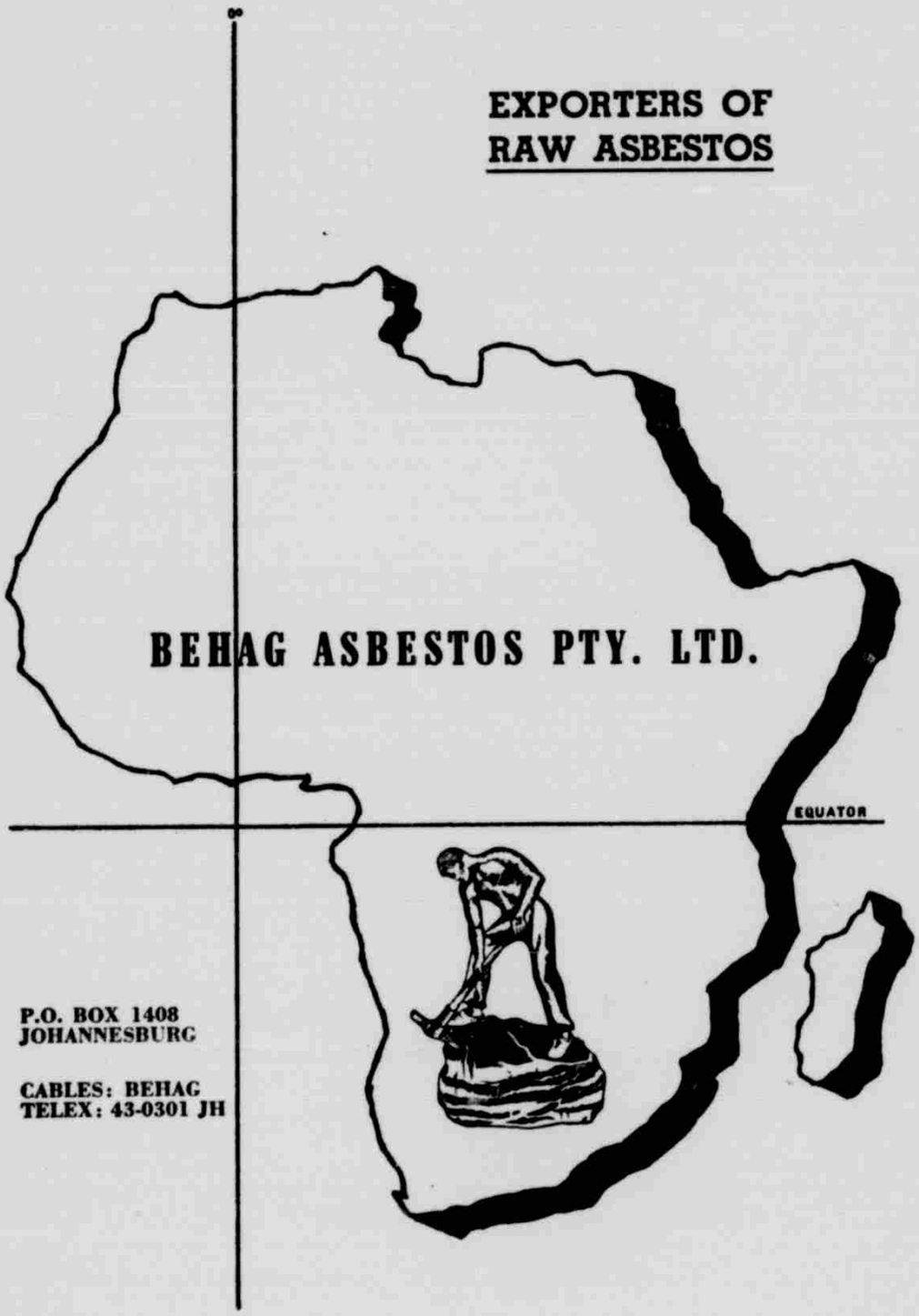
CONTAINERIZATION 70—SYSTEM AND METHODS will be held October 21-24 in Munich. The event is the first International Container Exhibition and is being organized by the Munich Fair and Exhibition Company.

ISA CONFERENCE & EXHIBIT (on Instrumentation, System and Automatic Control) will be held October 26-29, 1970, at the Civic Center, Philadelphia, Pennsylvania. The 25th annual event will culminate observance of the *Instrument Society of America's Silver Jubilee*. It is the only annual conference and exhibit in the United States that is exclusively focused on instrumentation and automatic control. Products will be demonstrated by more than 350 exhibitors and about 200 technical presentations will be made via papers, workshops, panels and clinics. The Keynote Address will be delivered by Mr. David Packard, Deputy United States Secretary of Defense.

THE FIRST "INDUSTRIALIZED BUILDING EXPOSITION & CONGRESS" will be held at the Kentucky Fair & Exposition Center, Louisville, November 3-6. The various talks, seminars and demonstrations will be supplemented by a huge exhibit of modular units, pre-engineered buildings, systems, equipment and products related to the industry of industrialized building.

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INDUSTRY NEWS

HAPPY BIRTHDAY

T. T. Tigert, Consulting Engineer, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, Canada, October 16.

Wm. F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

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

J. G. Mooney, Industrial Relations Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, October 18.

Charles P. Miller, Treasurer, Scandura, Inc., Charlotte, North Carolina, October 20.

R. Dodds-Hebron, Executive Vice President & Production Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, Canada, October 22.

William M. North, President, American Olean Tile Division & Corporate Group Vice President, National Gypsum Company, Buffalo, New York, October 22.

James C. Murphy, Vice President, GAF Corporation, New York City, October 23.

Francis E. Dutcher, Corporate Vice President, Building Materials Division, Johns-Manville Corporation, New York City, October 24.

John H. Steiner, Chairman of the Board, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, October 24.

Boris A. Stern, Panacon Corporate Director of Quality Control, Philip Carey Company, Cincinnati, Ohio, October 24.

James W. Liddell, President, ACandS, Inc., Lancaster, Pennsylvania, October 26.

Richard W. Henry, Marketing Manager-Insulation & Construction Products, Industrial Products Division, GAF Corporation, New York City, October 27.

J. R. Murdoch, General Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, Canada, October 27.

Lindsay F. Johnson, Director, Hedman Mines Ltd., New York City, October 28.

H. C. Morton, Vice President, Thermoid Division-Russell Works, H. K. Porter Company, Inc., Middletown, Connecticut, October 28.

G. Edwards, Plant Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, Canada, October 29.

Walter R. Foote, Director of Manufacturing, Floor Products Division, GAF Corporation, New York City, October 30.

Max E. Meyer, Secretary, North American Asbestos Corporation, Chicago, Illinois, October 31.

Paul S. Maco, General Manager, Insulation Products Division, Asbestospray Corporation, Newark, New Jersey, November 1.

Joseph W. Christenbury, Vice President in charge of Sales, American Asbestos Textile Corporation, Norristown, Pennsylvania, November 2.

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

Clark A. Bailey, Marketing Manager-Southern Region, Pipe Division, Johns-Manville Corporation, New York City, November 3.

Milton Q. Scowcroft, Sales Manager, Asbestos Textile Division, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, November 3.

Dirk Salomons, President of the Board & Director, Asbest-cement-industrie Asbestona N.V., Amersfoort, Holland, November 5.

Dr. Robert J. Merrill, President, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, Canada, November 6.

Dr. Richard Gaze, Chairman, Cape Asbestos Fibres Ltd., Uxbridge, Middlesex, England, November 9.

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

Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.

W. B. Callan, Plant Manager, Normandie Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, November 14.

K. H. Dixon, Joint Managing Director, Turner Brothers Asbestos Co. Ltd., Spotland, Rochdale, Lancashire, England, November 14.

Don L. Hinmon, Vice President & General Manager for Pipe Division, Johns-Manville Corporation, New York City, November 14.

Karl V. Lindell, Chairman of the Board of Canadian J-M and Vice President & General Manager, Asbestos Fibre Division, Johns-Manville Corporation, Asbestos, Quebec, Canada, November 14.



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Exports From U.S.A.

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

Unmanufactured Asbestos:		MAY 1970	
Crude & Spinning Fibers	s. tons	593	$ 122,024
Non-Spinning Fibers	s. tons	1,534	249,364
Waste & Refuse	s. tons	2,690	370,660
		4,817	$ 742,048
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,158,461	$ 125,464
Other Asbestos-Cement Articles	Lb	224,803	63,092
Asbestos Gaskets	Lb	30,378	61,092
Asbestos Packing	Lb	513,648	734,514
Asbestos Heat or Sound Insulation		..	199,279
Asbestos Textiles & Yarns	Lb	939,199	269,165
Asbestos Protective Clothing		..	6,780
Mfrs. Other than Friction Materials		..	223,568
Clutch Facings & Linings for Auto. Use	No	132,219	127,469
Clutch Facings & Linings, Other	No	12,512	14,119
Brake Linings for Automotive Use	Lb	365,948	263,886
Asbestos Brake Linings, Other	Lb	177,730	143,608
			$2,232,036

Exports From Canada

(Published by Dominion Bureau of Statistics) Short Tons

MAY 1970

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	2	671	22,837	7,460
Eastern Europe	..	32	1,944	861
Middle East	..	..	664	38
Africa	..	..	..	..
Asia	16	178	4,672	6,151
Oceania	..	20	3,087	561
So. & Cen. America & Antilles	..	20	6,813	1,286
United States	..	1,416	13,364	33,634
	18	2,337	53,381	49,991

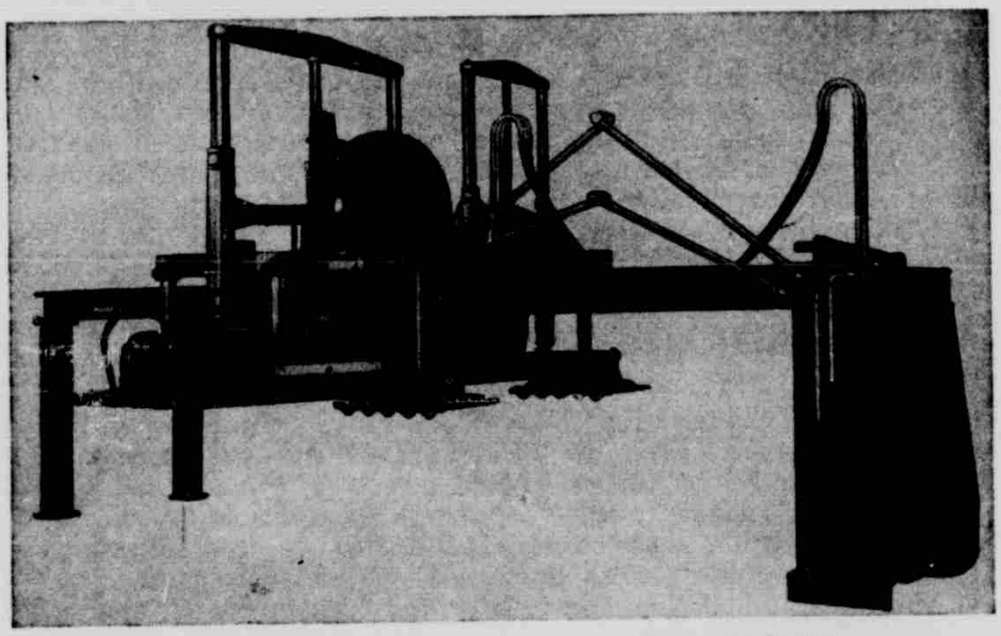
The total amount of unmanufactured asbestos exported in *May 1970* was 105,727 short tons, valued at $15,623,000.

Manufactured Asbestos Goods:		
Asbestos Brake Linings & Facings		$ 172,000
Asbestos-Cement Building Materials		386,000
Asbestos Basic Products, Other		165,000
		$ 723,000

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Pacific Asbestos Ltd.'s Australian subsidiary, *Woodsreef Mines Limited,* has successfully completed its public offering of $17 million (Australian). This is approximately $19.4 million (Canadian) at present rates of exchange. Pacific owns approximately 59% of Woodsreef.

According to Pacific Asbestos' President, Mr. R. H. Bullied, construction will now commence on an asbestos plant near Barraba, New South Wales, at a cost of approximately $18 million (Canadian).

Cassiar Asbestos Corporation Limited, in its Interim Report to shareholders as of June 30, reported that production from the Cassiar Mine is being maintained at the rate of 80,000 tons of fiber per year and production from the Clinton Mine has increased to an annual rate of 100,000 tons of fiber. Both mines are operating efficiently and sales are at the anticipated level for the six-month period. The outlook for the balance of the year is favorable.

McAdam/Rio Algom—McAdam Mining Corporation Ltd. has reached an agreement in principle with Rio Algom Mines Ltd. for senior financing to bring its asbestos property into production. The agreement is subject to approval by the Toronto Stock Exchange and McAdam shareholders.

Drilling on the property, which is located 20 miles east of Chibougamau in Northwestern Quebec, has indicated 54,000,000 tons of ore in the C-D zone, averaging 5.8% fiber. Additional tonnage of substantial quantity is reported in three other zones.

Minbanco Corporation, New York City, announced it has a substantial interest in one of the free world's largest asbestos deposits. The property is situated in Amos, Quebec, Canada, and according to a recent feasibility study the deposit contains some 105,000,000 tons of 3.6% grade asbestos fiber. The fiber is reportedly a good quality, cement grade cross-fiber of #4, #5 and #6 lengths.

More than $1,900,000 (Canadian) has been expended since 1968 in exploratory drilling, analysis of more than 500 tons of material and the evaluation of the deposit by a private consultant, Gordon H. Gibbs, and two engineering firms, Parsons-Jurden Corporation and Kilborn Engineering Limited. The value of gross sales is estimated at $6.90 per ton and operating costs should be between $2.75 and $3.00 per ton. Based on mining out the deposit in 17 to 27 years, capital costs of plant and related facilities were estimated at $50,000,000 to $75,000,000.

Minbanco has not as yet reached a decision on whether to raise sufficient capital to put the property into production, to seek a larger company to put up the capital in exchange for an interest and operating agreement, or to sell its interest outright.

The asbestos find was the outgrowth of a joint venture between Minbanco and *Abitibi Asbestos Mining Company,* Quebec.

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Turners Asbestos Cement (Nigeria) Ltd., one of the two Nigerian subsidiaries of Turner & Newall Ltd., will return its asbestos-cement sheeting machine into partial production early in October. The £1.5 million factory at Enugu was badly damaged shortly after the outbreak of the Nigerian civil war and as a result the plant ceased operating. The utilization of a generator, on loan from the Nigerian Army, coupled with the availability of a modest supply of cement from Lagos, will enable the firm to restart production. An estimated £250,000 will be spent to restore the factory to its pre-war condition.

The factory is equipped to manufacture building materials, pressure pipes for water supply systems, sewerage and drainage pipes, and accessories. Production at the plant originally commenced in 1963 and prior to the crisis its annual capacity had reached 20,000 tons of building products and a like quantity of pipes. The manufacturer had also developed a system of low-cost housing that had aroused considerable interest and this highly-promising project will be continued as soon as circumstances allow.

At *Turners Asbestos Cement (Kaduna) Ltd.*, TAC (Nigeria)'s sister enterprise in the North, installation of manufacturing equipment was also interrupted by the conflict. Plans are now in the offing for the full commissioning of the plant.

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The Mineral Industry of the USSR—With a centrally-planned economy, the USSR maintained its position in 1968 as the world's second largest producer of industrial products. Practically all mineral commodity exports increased.

In 1968 the USSR produced an estimated 800,000 metric tons of six grades of asbestos. Canadian equipment is being used in large-scale expansion of the industry. Asbestos exports rose from 256,800 tons in 1966 to 285,200 tons in 1967 and 303,600 tons in 1968. Chrysotile asbestos development was centered in the Urals, Kazakhstan, and in the Tuva ASSR. Anthophyllite and other varieties have been mined at the small Sysertsk deposit and in other areas.

Treatment plants at the nation's largest deposit in the *Bazhenovo (Asbiest) District of the Urals,* yielded about 4% graded asbestos from ore mined, with the remainder waste. About 50% of the waste was used as aggregate and the rest was dumped. Soviet asbestos mines are producing and treating more than 100 million tons of ore and rock yearly.

The *Uralasbest Combine* (*the Bazhenovo Deposit*) accounted for about 80% of total Chrysotile asbestos output. Explored reserves were reported at 38.7 million tons of asbestos. The deposit's three open-pit mines had a depth of 50 to 125 meters and a total length of 10 kilometers. The No. 6 asbestos plant began operating in 1969. The plant's crushing and beneficiation facilities will process lean ores with an asbestos content below 3%.

The *Kustanayasbest Combine,* exploiting the Dzhetygara Deposit in Kazakhstan, accounted for some 17% of total Chrysotile asbestos output. This deposit contains only medium and lower grades. The first stage of the dressing plant, with a planned capacity of 200,000 tons annually, was commissioned in 1965. The Combine employed 6,000 workers and produced some 142,000 tons, or 30,000 tons more than in 1967. The second stage of the Combine, with a 400,000 ton planned capacity was under construction and is to be commissioned by 1970.

The third asbestos production center, located in the remote Tuva region adjoining Mongolia, was being expanded. The first stage of the *Tuvaasbest Combine* at Aktovrak, started in 1959, was put into operation in 1966. The second stage was under construction in 1968 and was scheduled to be completed in 1970. The Tuvaasbest Combine produced over 4% of total Soviet asbestos output. Asbestos from this deposit is of the highest quality and has the greatest fiber length of any known Soviet reserve.

Construction started in 1968 at the *Kiembay Asbestos Deposit* in Orenburg Oblast' (Southern Urals). Reportedly the surveys of the Molodezhnoye and Il'chirsk (Buryat ASSR) Chrysotile asbestos deposits have been completed. The known reserves are "large."

According to Soviet sources, a new deposit of Chrysotile asbestos was discovered in 1968 in Bauntov County, Buryat ASSR.

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South African Asbestos-Cement Products Manufacturers' Association—The June 1970 issue of ASBESTOS carried an announcement of the formation of this organization as a *new* Association in South Africa but we have recently learned it actually was formed in August, 1968. Current members of the Executive Committee include L. B. Petters as Chairman, N. V. Hayward as Executive Secretary and H. R. Benecke. The Association acts for the benefit of the asbestos-cement products manufacturers in South Africa by attempting to promote the use of asbestos-cement and to aid individual manufacturers in settling pertinent problems.

The Technical Subcommittee of the Association is actively engaged in preparing for the introduction of metrication in the asbestos-cement industry in South Africa. It is also concerned with various matters of the South African Bureau of Standards relating to the Bureau's Mark Scheme for asbestos-cement products.

Draft Indian Standards—The following Draft Standards were prepared by the *Indian Standards Institution* and are being circulated to obtain technical comments, which comments will be considered when the Drafts are finalized as Indian Standards: "Method of Test for Determination of Cement Absorption in Asbestos Fiber, Doc: BDC 2(1725)," "Methods of Test for Asbestos Cement Products, Doc: BDC 2(1754)," "Method of Test for Determination of Lime Absorption in Asbestos Fiber, Doc: BDC 2(1724)," and "Asbestos Cement Pressure Pipes, first revision of IS:1592-1960, Doc: BDC 2(1722)."



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PERSONNEL NEWS

AMERICAN SOCIETY FOR TESTING AND MATERIALS

The Board of Directors of ASTM announced the election of *William T. Cavanaugh* to the post of Managing Director. As chief executive officer, Mr. Cavanaugh will head the Society's staff of technical and editorial personnel who coordinate the work of more than 22,000 engineers, scientists, educators and other professionals who develop industrial and consumer standards for products and for materials of every type. Mr. Cavanaugh joined the ASTM staff in 1967.

CAPE ASBESTOS GROUP

N. B. Gettliffe retired as a Director of Cape Asbestos Insulations (Pty.) Ltd. and of Caposite Applications (Pty.) Ltd. In a farewell speech at a luncheon given in his honor, Mr. Gettliffe mentioned his long and happy association with the Cape Asbestos Group both in South Africa and in the United Kingdom.

The South African Group Secretary, *H. E. Wilson,* who started with Cape in Penge, South Africa, in 1948, was appointed Financial Director of Cape Asbestos South Africa (Pty.) Ltd.

R. D. C. Hubbard was appointed a Director of Cape Asbestos Fibres Ltd. and relinquished the position of Secretary. He will be succeeded as Secretary of the company by *R. G. Sivers.*

G. W. Flint retired from the Board of Directors of The Cape Asbestos Co. Ltd. and *L. G. Stopford Sackville* was appointed to the Board in his stead. Mr. Stopford Sackville, a Chartered Accountant, is a Director of Charter Consolidated Ltd. as well as of a number of other firms.

TURNER & NEWALL LIMITED

R. A. Wells, Research Director, and *K. H. Dixon,* the Director responsible for glass and reinforced plastics, have been appointed Joint Managing Directors of Turner Brothers Asbestos Co. Ltd., a T&N subsidiary. Mr. D. W. Hills is Chairman of TBA.

UNIROYAL, INC.

W. Donald Carroll was appointed Manager of Process and Quality Control for Uniroyal Fiber and Textile, a division of Uniroyal, Inc. He will be responsible for process and quality control in varied product areas including Asbeston. Mr. Carroll joined the firm in 1933 and most recently had been Plant Manager of the division's facility at Scottsville, Virginia. *Conrad L. Hall* was named Manager of the plant at Scottsville. He joined the firm in 1950 and had been Superintendent of hot stretch operations at the company's plant at Shelbyville, Tennessee.

As the new Managing Director of Uniroyal Ltd.—United Kingdom, *W. Lindsay Wylie* will direct the manufacturing and marketing of all company products in England, Scotland and Wales. *Clarence H. Sigler* will succeed Mr. Wylie as General Manager, Uniroyal Fiber and Textile, and will be responsible for all research, production and sales activities.

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ASBESTOS STOCK QUOTATIONS

Close—August 21, 1970

Abitibi Asbestos	*$6.00	Grace	26⅝
Advocate	**$2.20	Gulf & Western	13½
Asarco	25¼	G&W (pfd 1.75)	44¾
Armstrong Cork	26⅛	G&W (pfd 3.50)	54
Armst Cork (pfd 3.75)	47¼	G&W (pfd 3.87)	39½
Asbestos Corporation	**$28.75	G&W (pfd 5.75)	54¼
Bendix	20⅝	Illinois Central	20⅜
Bendix (pfd 3)	39	Ill. Central (pfd 3.50)	40
Carlisle	13¼	Johns-Manville	34½
Cassiar	*$20.37	Maremont	8⅜
Cerro Corporation	18	National Gypsum	20¼
Certain-teed	18¼	Natl Gypsum (pfd 4.50)	57½
C-teed (pfd .90)	17¼	Panacon	2⅜
Conwest	*$10.75	Porter (pfd 5.50)	61
Flintkote	24¾	Raybestos-Manhattan	22⅝
F-kote (pfd-A 4.50)	67	Royal Industries	5
F-kote (pfd-B 2.25)	33¼	Unarco	8½
GAF Corporation	9	Union Carbide	37⅛
GAF (pfd 1.20)	15¾	Uniroyal	17⅝
Garlock	14¼	Uniroyal (pfd 8)	93
		United Asbestos	3⅜

*Canadian currency
**Canadian currency; Close—August 18
(Sources: The Wall Street Journal & The Northern Miner)

Mining Annual Review, 1970 Edition, has been published by *The Mining Journal Ltd.*, 15 Wilson Street, Moorgate, London E.C. 2, England. A copy of the Review is available at £3 (U.S. $7.25) direct from the Publishers or through ASBESTOS.

The new edition examines the progress of the mining industry over the past year and gives a short-term outlook. It is in three parts: product by product, country by country and technologically throughout the entire mining process. A brief chapter on "Asbestos," by Dr. W. Nowers Asbury, appears in the "Insulants and Refractories" Section of the publication.

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Internationale Asbestzement-Revue
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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 (Asbestos-Cement Fiber)	218.00 — 369.00
No. 5 (Paper Fiber)	157.00 — 184.00
No. 6 (Paper & Shingle Fiber)	.. 114.00
No. 7 (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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Fibrous Dust—Its Measurement and Control is the title of a most informative paper presented by Mr. Gyan S. Rajhans at the 72nd Annual General Meeting of the Canadian Institute of Mining and Metallurgy. The paper has been reprinted in its entirety in the August 1970 issue of the Institute's CIM Bulletin.

The strategy of fibrous dust sampling is discussed, various sampling methods are critically reviewed and their application to coal dust is demonstrated. Fiber counting is described in detail. An attempt is made to explain the basis of determining the threshold limit value of *asbestos* and other dusts. Mr. Rajhans also discusses such dust control methods as enclosure of the process, effective local exhaust ventilation, segregation, substitution, wet processing and continuous monitoring of the return air for recirculation.

The author is a Dust Control Specialist with the Occupational Health Service, Environmental Health Branch, Ontario Department of Health.

Reprints of most of the papers published in the CIM Bulletin are available at $1.00 per copy. Contact the Institute at Suite 906, 1117 Sainte Catherine Street West, Montreal 110, Quebec.

Review of the Mineral Industries—Gains in economic activity were registered in 1968 by the mineral industries as well as by the total economy for the 8th consecutive year. Both the minerals industry and the U.S. economy as a whole showed record annual averages in the areas of production, sales and employment. The value of total output of goods and services (gross national product/GNP) in 1968 rose to a new high of $861 billion. When corrected for price changes, the real value of GNP (in 1958 prices) was $707 billion, or 5% more than in the previous year.

Following are some of the 1968 statistics recorded concerning asbestos. Apparent consumption reached 817,000 short tons compared to 721,000 tons in 1967. North America supplied 90% of asbestos imports in 1968; 10% originated in Africa. Disposal of asbestos from the U.S. Government Stockpile totaled 1,250 short tons of Amosite, valued at $218,700; 190 tons of Crocidolite, valued at $36,100; and 1,187 tons of Chrysotile, valued at $189,854.

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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 July 14 through August 4, 1970.

3,522,069—Method for the Preparation and Application of Foamed Magnesia Cements, by J. C. Checko & H. Umansky (assigned to The Mearl Corporation, Ossining, New York), July 28.

3,522,140—Asbestos-Foam Laminates, by R. S. Hartzell & G. Gerek (assigned to PPG Industries, Inc., Pittsburgh, Pennsylvania), July 28.

3,523,080—Friction Elements, in Particular for Hinges and Bearings, by P. R. Delaplace, August 4.

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

AD 699 140—The Scanning Electron Microscope and its Applications in Fracture Studies of Composite Materials, by J. V. Larsen, U.S. Naval Ordnance Laboratory; describes the principles of operation of the scanning electron microscope and reviews its applications in studying fracture surfaces.

AD 701 500—Manufacturing Methods of Composite Materials, bibliography by the Defense Documentation Center, Alexandria, Virginia.

AD 702 418—The Creep and Fracture Behavior of Al-Al_3Ni Eutectic Whisker Composites, by E. M. Breinan, United Aircraft Corporation, East Hartford, Connecticut, for the U.S. Navy.

N70 10030—Apollo 11, Preliminary Science Report; a preliminary report by the National Aeronautics and Space Administration of the initial scientific observations resulting from the Apollo 11 mission.

NASA TECH BRIEF 70 10054—Unidirectional Composite Stiffening, by B. W. Rosen & N. F. Dow, General Electric Company, under contract to NASA Headquarters.

PB 188 080—Air Pollution Aspects of Asbestos, by R. J. Sullivan & Y. C. Athanassiadis, Litton Systems, Inc., for the National Air Pollution Control Administration.

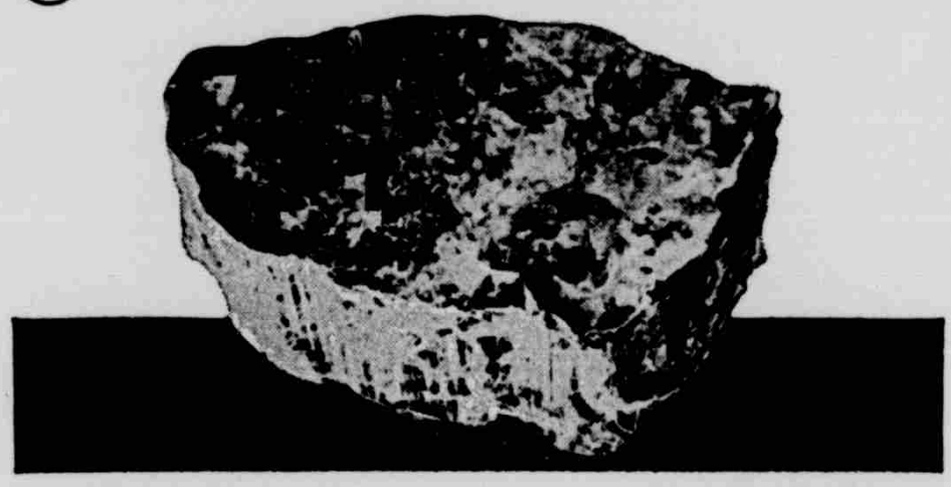
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BUILT ON A ROCK

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?

(September 1920 ASBESTOS)

A short biographical sketch of Maurice E. White, Treasurer of Norristown Magnesia & Asbestos Company, appeared in this issue.

The Raybestos Company announced the production of several items of interest to auto repairmen and motorists. The Raybestos Attaching Kit contained all necessary rivets and tools for attachment of replacement brake linings and clutch facings with complete directions for their use. The Raybestos Packet contained a 10" x 40" sheet of Metallic Sheet Packing. Also being made available to the motorist was the Royal External Emergency Brake for Ford cars.

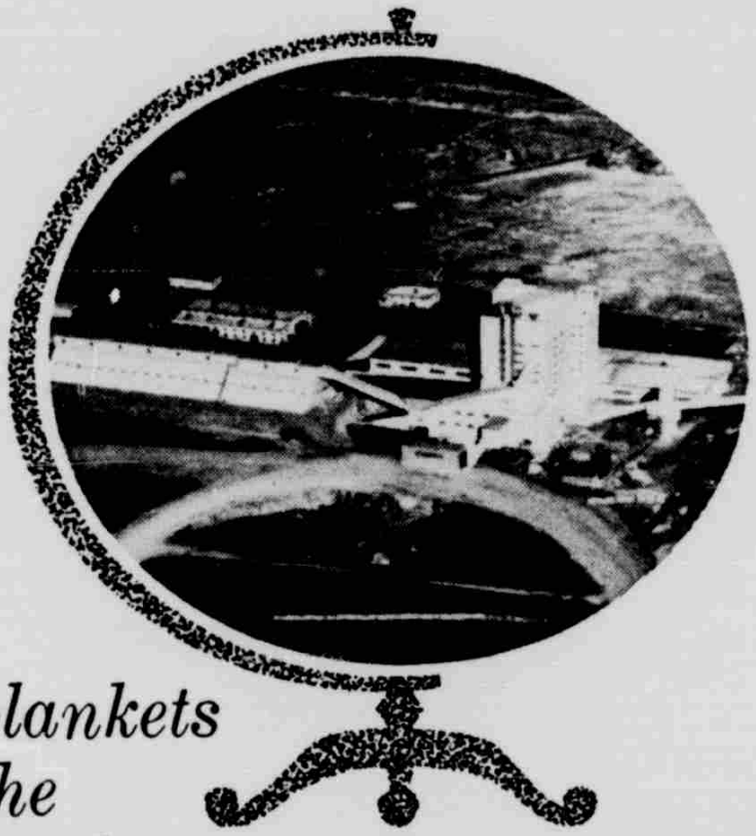
The following quotation was published in this issue (showing how little things have changed over the years): "Taxes have to be paid by the public. They cannot be imposed on any class. There is no power that can prevent a distribution of the burden. The landlord may be the one who sends a check to the public treasury, but his tenants nevertheless make the payment. A great manufacturer may contribute a large share of his income, but still the money comes from the consumer. It is impossible to escape the conclusion that high taxes make high prices. So long as the cost of government is high the cost of living will be high. — Calvin Coolidge, Governor of Massachusetts."

The Interstate Commerce Commission granted the railroads increases of 25% to 40% in freight rates in an effort to alleviate prevailing congested traffic conditions.

Detailed balance sheet and profit and loss accounts of The Cape Asbestos Company Ltd., submitted to ASBESTOS by W. A. Godfrey, Manager and Secretary of the company, showed net profits after taxes for the year 1919 of about $100,000.

News releases remarked on the arrival in Philadelphia of a bargeload of asbestos consigned to Keasbey and Mattison Company from Quebec. The value of the shipment was in excess of $500,000.

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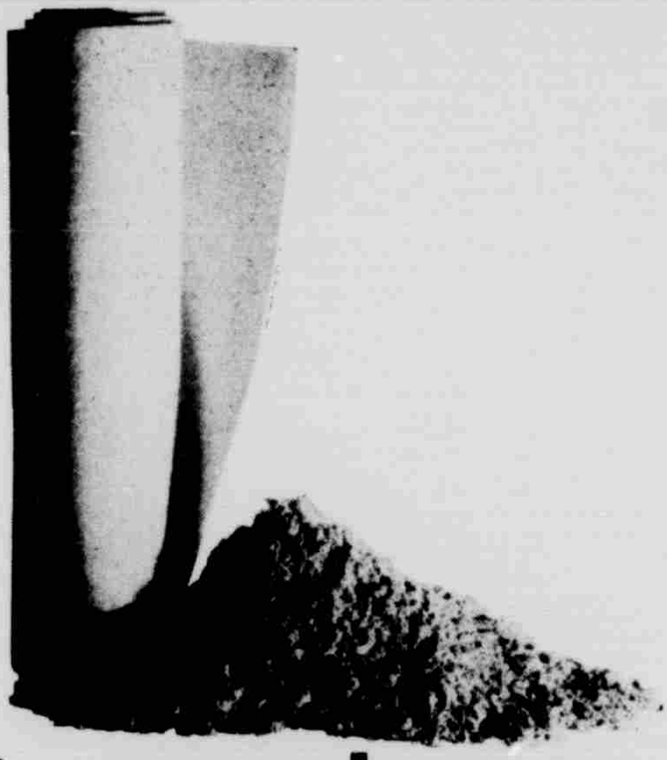
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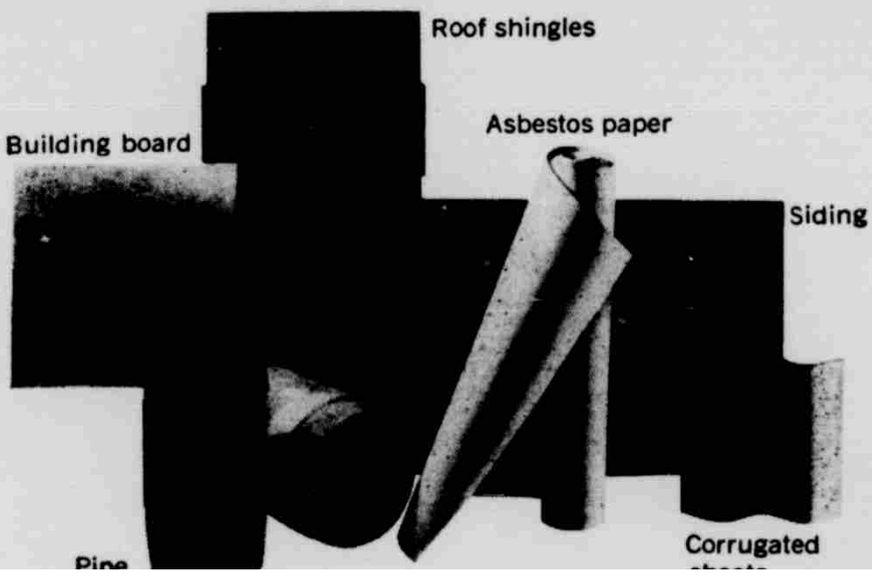
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