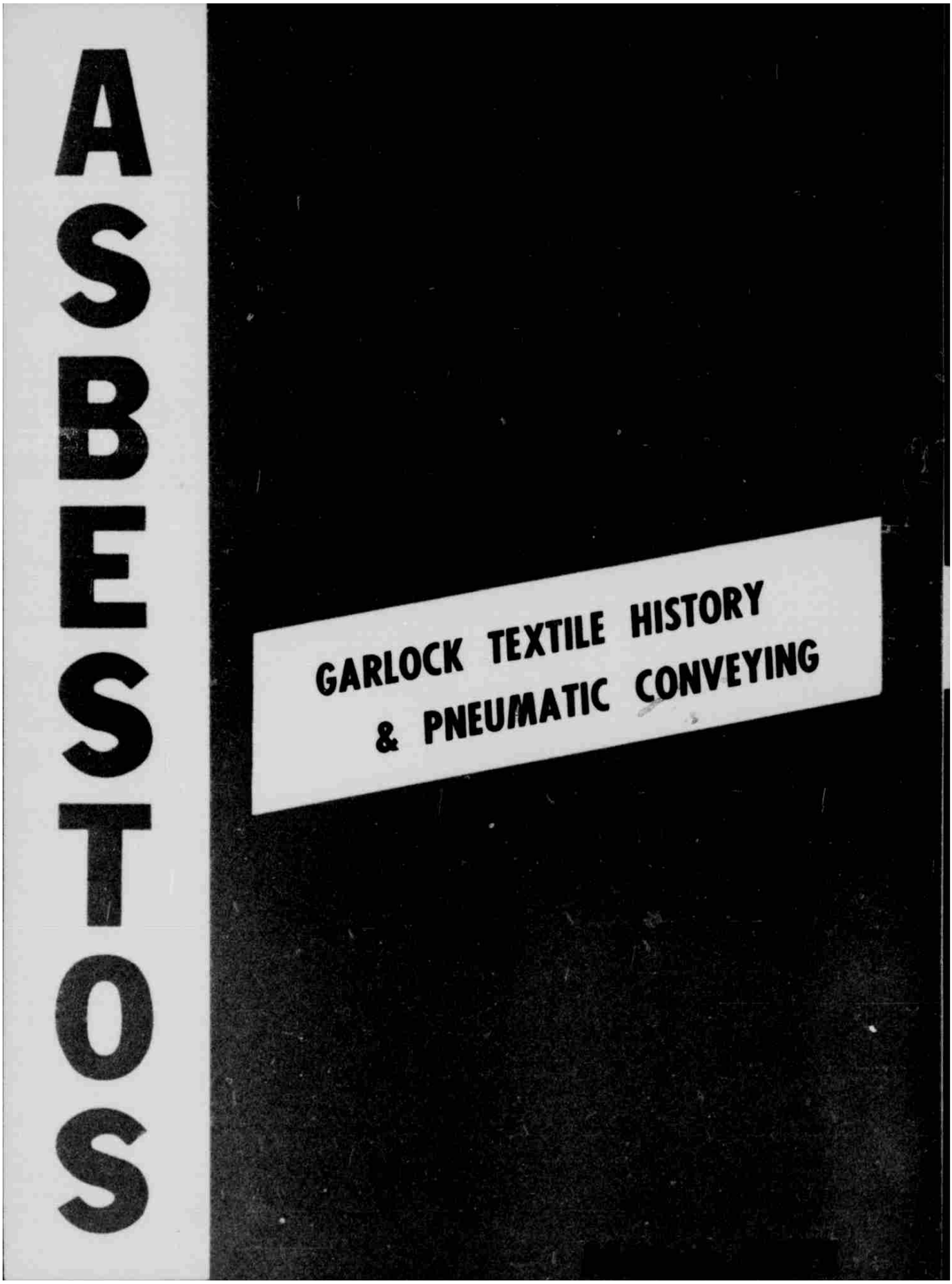
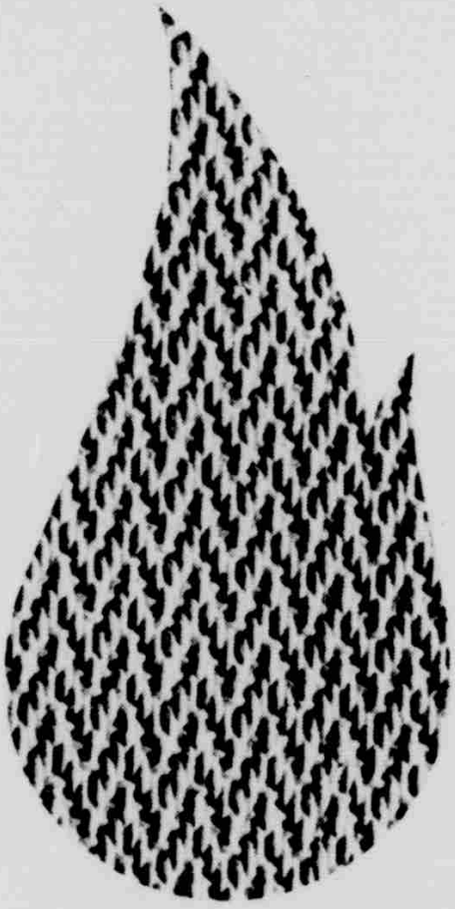


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ASBESTOS

VOLUME 52 MARCH 1971 NUMBER 9

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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

Chapter VI: Garlock Incorporated

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

Garlock Packing Company was established in September 1887 as a partnership of Olin J. Garlock, Frederick W. Griffith and Eugene Nichols. Founded in Palmyra, New York, on the banks of the old Erie Canal, the company began as a manufacturer of mechanical packings including asbestos packings.

In the early days Garlock obtained much of its business from the saw mills in the surrounding area. The mills used steam power and fed their boilers with the flashing from their own operations. This is just one more bit of evidence to support the contention "the steam engine is the father of the asbestos textile industry."

From a modest beginning Garlock grew steadily. The company was incorporated in 1905 and has paid a dividend to stockholders in every succeeding year.

In 1910 George L. Abbott graduated from Hamilton College and joined Garlock as Secretary to Fred Griffith, at that time Vice President and Treasurer of the firm. George Abbott rose rapidly through the ranks to become General Manager in 1926 and President in 1928. While he was not a founder of Garlock it was his executive ability that guided the company through its earlier growth years to become a major factor in the industry.

In the development of Garlock, George Abbott had two principal associates. Cecil R. Hubbard joined Garlock in 1923. He was elected Vice President of Manufacturing in 1929 and served the company for 33 years. Robert M. Waples was the third member of George Abbott's management triumvirate. He joined Garlock in 1915 as a file clerk and telephone operator in the Philadelphia office. Following military service in World War I, he returned to Garlock as a Sales Representative in the Baltimore district. In 1927 Bob

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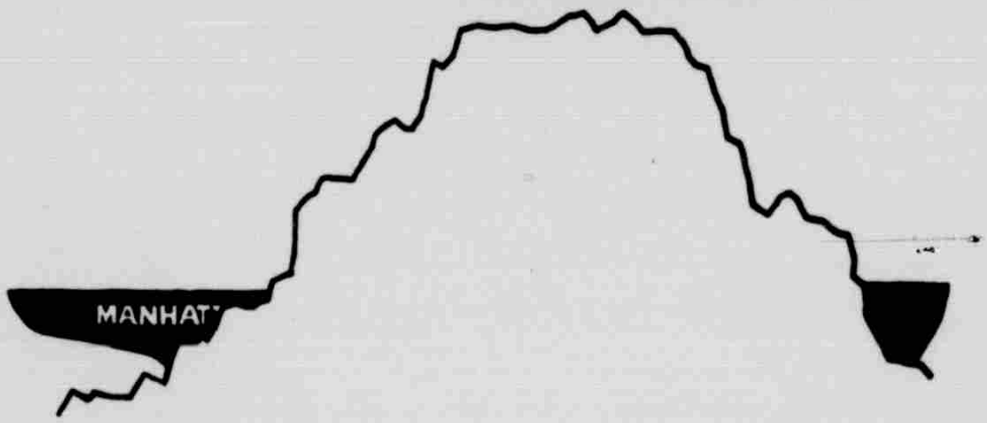
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Waples was called to the home office at Palmyra as Manager of the Service Department. He was elected Secretary in 1929, Vice President in 1948, Executive Vice President in 1952 and President in 1955. At that time George Abbott stepped up to Chairman of the Board.

In order to secure additional capital necessary for further expansion, Garlock went public in 1929. The company's stock was first listed on the New York Stock Exchange in 1964.

As stated earlier in this chapter, from the very beginning Garlock was a manufacturer of steam packings including, of course, asbestos packings. In 1916 the company installed its own asbestos textile mill to spin the yarn needed for its braiders and to weave the cloth required for the manufacture of asbestos packings. For some years Garlock's output of asbestos textiles was confined to materials for use in its own end products and its entire output was consumed in making such products. It was not until 1964 that the company offered a limited line of asbestos textiles, principally asbestos cloth, for sale to the trade.

J. Donald Roe, Garlock's Manager of Public Relations, has aptly described the history of Garlock as divided into three phases: the era of the founders, the long growth period under George Abbott, and finally the present operations under President A. J. McMullen.

In 1955 Garlock purchased the U.S. Gasket Company, Camden, New Jersey, a pioneer in the manufacture of packings and seals made from fluorocarbons (an important new development at that time). Rick McMullen was President and principal executive officer of the subsidiary company.

In 1959 George Abbott retired, Bob Waples was elected Chairman and Rick McMullen was elected President of the parent company. This was the start of a reorganization program which has achieved phenomenal results. Garlock is today an international company with subsidiary companies in Canada, England, France, Japan and Mexico. In addition the firm has acquired ten domestic companies, none of which are manufacturers of asbestos textiles.

In the ten years under the Presidency of Rick McMullen, Garlock sales have increased from $33,470,000 in 1959 to $64,780,000 in 1968. This remarkable growth record

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was achieved partially through the acquisition of domestic and foreign companies and also by expansion and development of traditional product lines.

When Rick McMullen became President of Garlock he rehired G. Parry Wiess, a key member of his former staff at U.S. Gasket. Parry Wiess is currently a Vice President of Garlock and heads the Mechanical Products Division. Activities of this Division include the manufacture and sale of asbestos textiles and the majority of Garlock's packing materials. Parry Wiess serves the Industry as a member of the Asbestos Textile Institute and has been a member of its Board of Governors. Garlock, in fact, is well represented in Institute activities. Alexander Kuzmuk, President of the company's Mechanical Rubber Division, is the current Treasurer of ATI and G. Ellwood Houghton, until his recent retirement from Garlock, was an active member at ATI's Technical Committee.

Ellie Houghton, a veteran of the asbestos textile industry, joined Garlock in 1939 and was appointed Superintendent of the Textile Department in 1945. In 1959 he transferred to process engineering as Senior Engineer.

Garlock Inc. is today a highly diversified manufacturer, selling principally to other manufacturers. While the firm currently operates 14 plants in 13 cities, it does not fit the description of a "conglomerate." All of the many Garlock product lines have a cohesive bond, either through similar manufacturing facilities or via common fields of sales activity.

Next Issue . . . .

Chapter VII: General Asbestos & Rubber Company

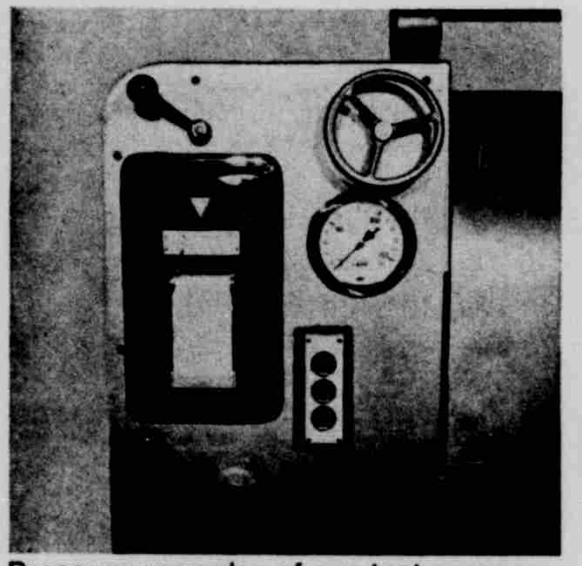
Chapter VIII: The Raybestos Company

Don't Forget . . . .

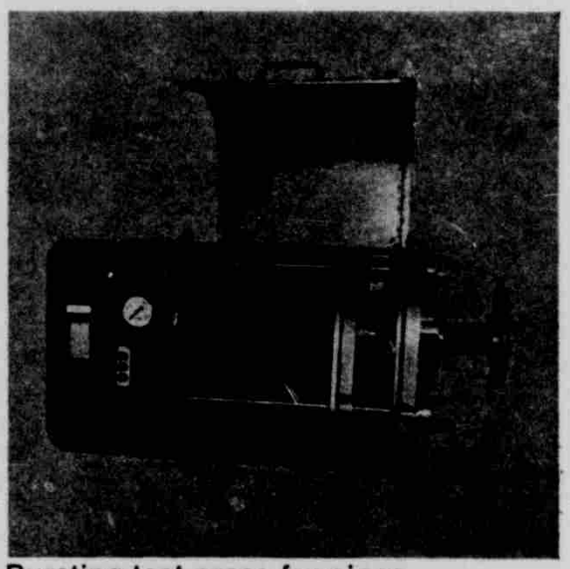
to let us know if you desire reprints of "The History of the Asbestos Textile Industry in the United States," by John A. Bettes, Jr.

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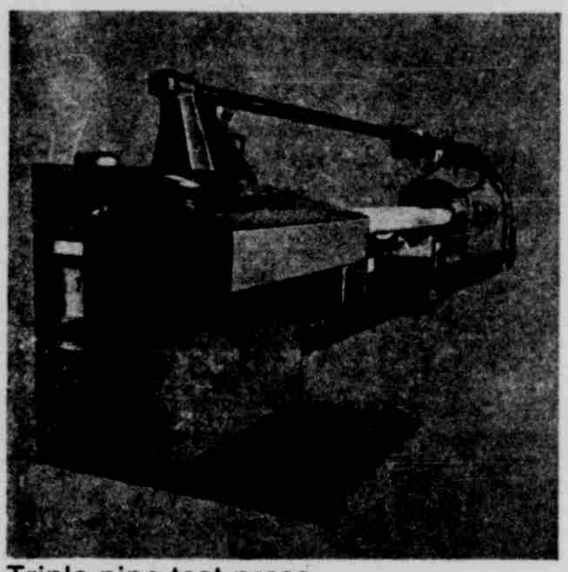
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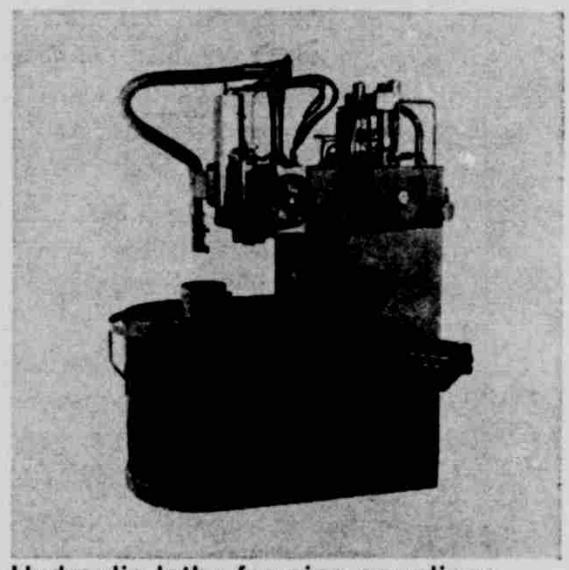
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PNEUMATIC CONVEYING AND BULK PURCHASES:
PROFIT COMBINATION FOR THE ASBESTOS INDUSTRY

[THE FOLLOWING ARTICLE WAS CONTRIBUTED BY SPROUT, WALDRON & COMPANY, INC., MANUFACTURING ENGINEERS LOCATED IN MUNCY, PENNSYLVANIA.]

In an effort to offset the inflationary pinch of spiraling costs and reduced profits, those in the Asbestos Industry—like business everywhere—are focusing greater emphasis on the purchase of raw materials in bulk.

Without question, this practice can lower the user's raw material costs. And, in most cases, bulk buying directly contributes to other benefits such as improved housekeeping, better working conditions, more efficient production, lower operating costs, reduced manpower needs and lower storage space requirements.

The materials supplier benefits, too. He lowers his delivery charges by shipping bulk. He can reduce or eliminate costly bagging operations. And, he can more efficiently schedule his production and traffic through larger unit shipments.

What portion of the resulting saving is retained as profit by the user is dependent upon the efficiency and operating cost of the method used to unload and transfer the material from the bulk carrier.

Too frequently, antiquated systems completely eradicate the profits resulting from quantity buying. Often, the conveyors are not of a type geared to the handling and physical characteristics of the product.

It is significant then that more and more asbestos suppliers are experimenting with various methods of mechanical and pneumatic conveying systems—and recommending that their customers use that system which best handles their product.

Factors considered in the test programs are system efficiency, equipment and operating cost, safety aspects, space requirements, dust control effectiveness, contamination control, versatility and manpower needs for operation.

Based on tests made to date, *pneumatic conveying systems* scored pluses on every factor considered . . . and received a nod from those involved in the research as the

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most efficient, economical and versatile method of handling various types of asbestos.

It is the general consensus that pneumatic conveying and bulk purchasing offer a formidable profit combination to the Asbestos Industry. Too, pneumatic conveying can be easily incorporated as an integral part of a completely automated processing system.

Among those suppliers who conducted testing programs are the Philip Carey Company of Cincinnati, Ohio, (a supplier of Canadian asbestos) and Union Carbide Corporation of New York City, supplier of Calidria (a pelletized California-type asbestos).

Each company tested various makes of pneumatic equipment, including units supplied by *Sprout-Waldron & Company, Inc.*, of Muncy, Pennsylvania, one of the nation's leading manufacturers of pneumatic and mechanical handling systems.

Sprout-Waldron equipment successfully used by Philip Carey included a Pneu-Vac negative pressure system and a Roto-Claw mobile reclaiming unit. Union Carbide's testing program utilized a portable Pneu-Pac (combining negative and positive pressure) unit.

The Roto-Claw unit is designed to facilitate the removal of bulk materials from railroad box cars and to improve the uniformity of delivery of the material to negative pressure pneumatic conveying systems. It is particularly effective on materials with extreme compacting and bridging characteristics, such as the fibrous asbestos shipped by Philip Carey.

In uniformly feeding the vacuum conveying system, the mobile unit reduces material transfer time as much as 50% compared to other handling methods. It also cuts manpower requirements (only one operator is needed) and operator fatigue, and reduces dusting because material is more evenly fed into the conveying system.

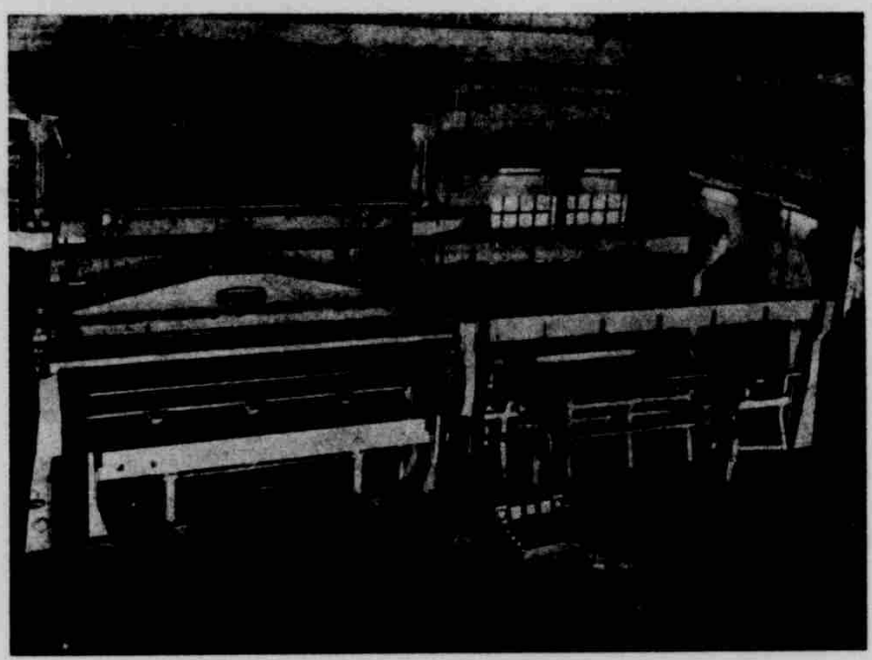
At Philip Carey, the Roto-Claw unloader dug loose the compacted material and transferred the box car load to the intake line of the pneumatic system in less than 6 hours. During the unloading operation, dusting was minimal—an important factor when the inherently dusty nature of short-fiber asbestos is considered.

The Roto-Claw reclaimer is provided with an operator's platform and centrally-supported digging "claw." The mani-

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fold at the pick-up point is adjustable to accommodate different materials and unloading system capabilities. An interchangeable manifold at the rear of the unit permits use of several sizes of conveying lines. At Philip Carey, the negative pressure transfer system utilized 6″ diameter lines.

A 10 horsepower electric motor drives a hydraulic pump to power three hydraulic motors—one for each drive wheel



SPROUT WALDRON
ROTO-CLAW
UNLOADER

and one driving a vertical chain drag. The "claw" digs into compacted loads and transfers the material to the pick-up manifold.

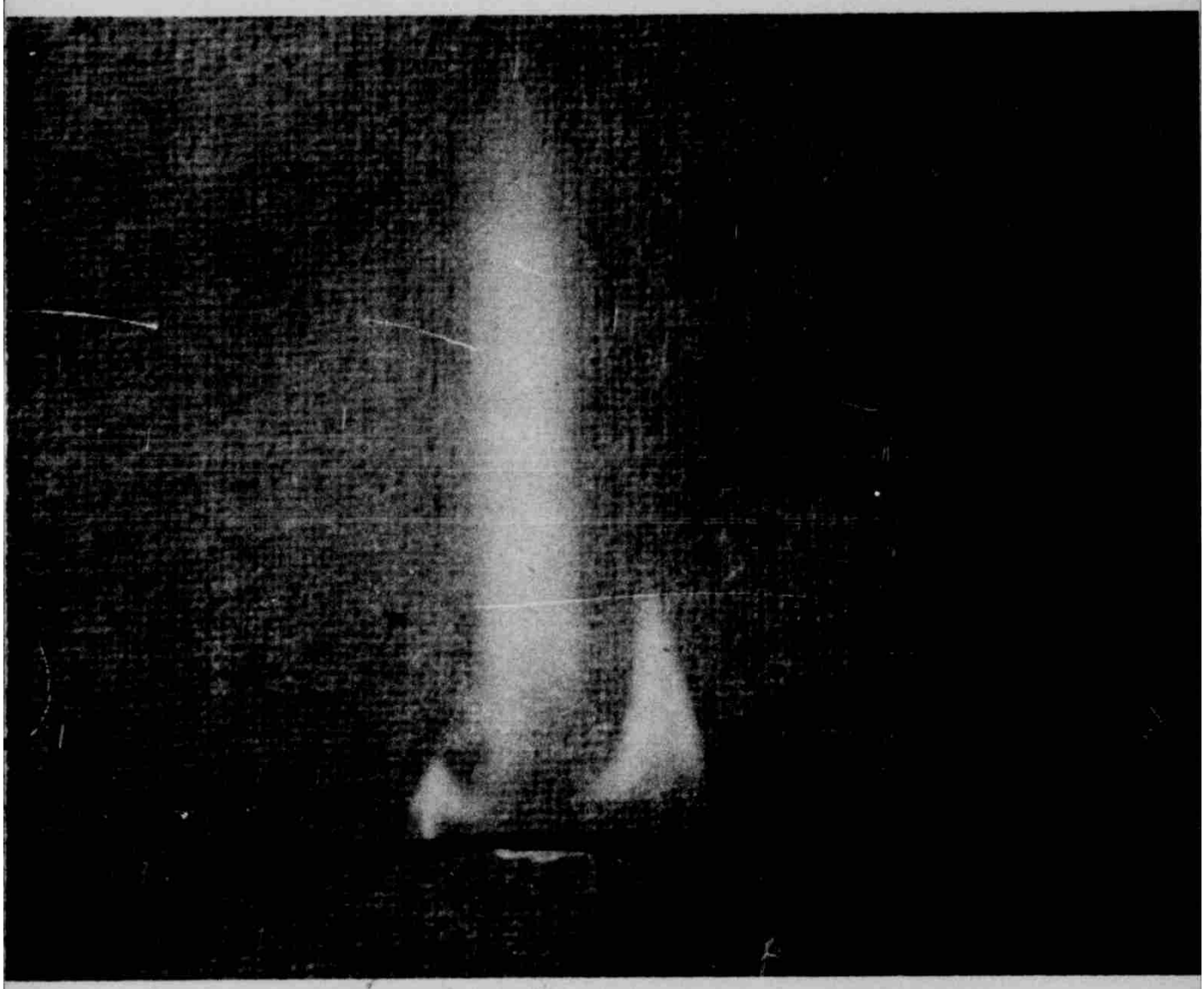
The pivoted chain drag is adjusted with a hydraulic cylinder to the face of the piled material. The machine's wheels are adjustable to compensate for the weight of the operator, or to eliminate any tendency of the unit to climb.

Centrally located throttles control turning, forward and backward movements. They automatically revert to "off"

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position when released by the operator. The vertical chain drag is independently controlled.

Safety features include guards over the forward chain drag, easily accessible stop switch, operator hand-grip bar and "deadman" type throttles.

The charactertistics of Union Carbide's pelletized Calidria fibers are the extreme opposite of the fibrous asbestos furnished by Philip Carey. Calidria is free-flowing, tending to resist bridging or compacting, and is virtually dustless.

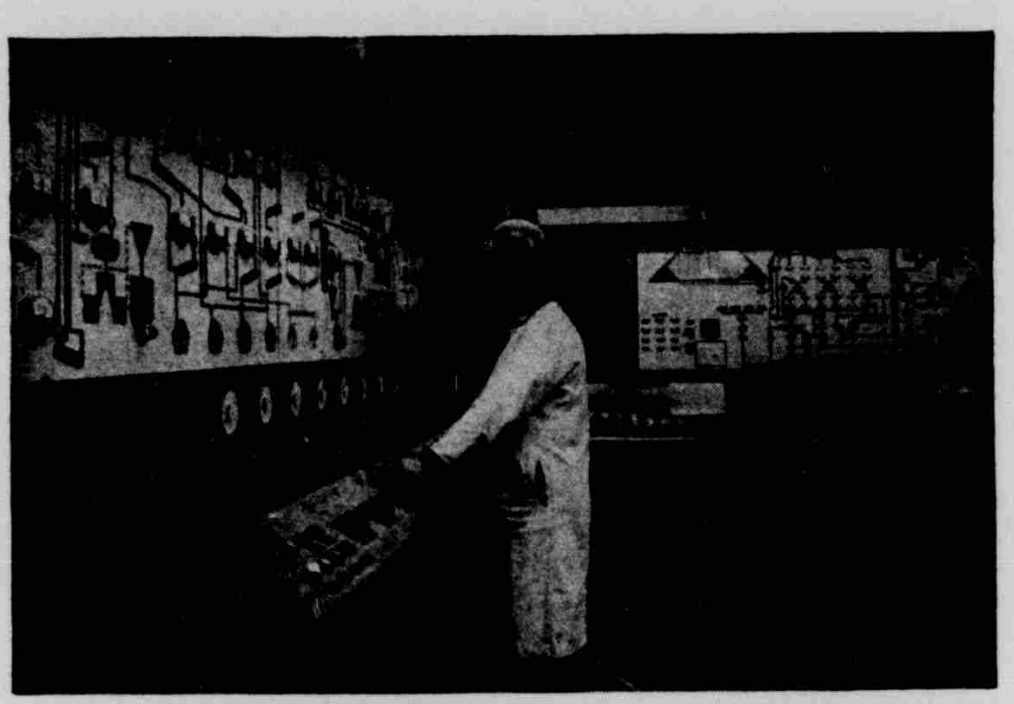
It is transported in hopper cars with either gravity hoppers or pneumatic outlet. Thus, no mechanical or manual method of feeding the air transfer system is necessary.

The Sprout-Waldron portable Pneu-Pac conveyor is fitted with a 4" diameter negative pressure line which can be connected to a pneumatic probe or car unloading nozzle. Material is withdrawn from the hopper car under negative pressure and transferred to a filter receiver. There, the material is separated from the conveying air, discharged into a rotary air lock, and fed into a positive pressure line for conveyance to storage or in-plant usage.



SPROUT WALDRON PORTABLE PNEU-PAC CONVEYOR

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Gold Bond
ASBESTOS FIBRES

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The conveying air is generated by two rotary positive displacement blowers powered by a 40 horsepower gasoline engine.

Conveying rate of the unit used for the Union Carbide testing was 10 tons per hour to permit unloading of the hopper car in 6 hours.

All components of the Pneu-Pac conveyor are mounted integrally on a trailer that can be towed "over-the-road." This feature permits easy positioning alongside the hopper car, thus eliminating the need for time-consuming car spotting. Often such units are used to unload and transfer material from hopper cars at sidings or terminals to trucks for further delivery.

Stationary Pneu-Pac systems operate similarly, but lack some flexibility of the portable units. However, stationary systems can be more readily equipped with larger horsepower drives and fitted with larger lines to effect a greater conveying capacity.

Stationary or portable, such systems require only one man for operation. Normally, his only duties are connection of the car unloading nozzle to the conveying line and pushing a button to start the conveying system.

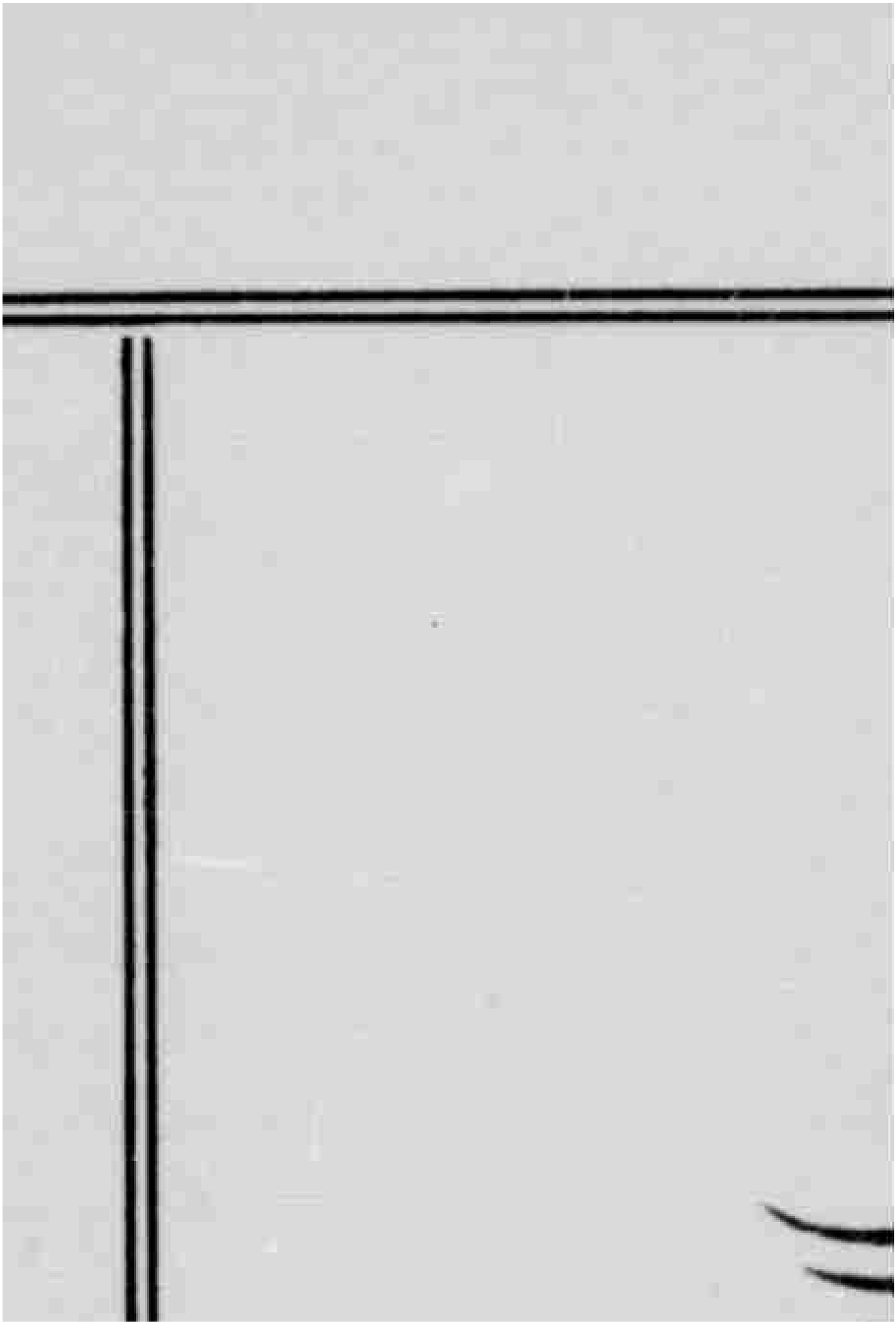
The testing programs have shown that pneumatic conveying of asbestos, regardless of type, is effective and practical. It assures the bulk materials user that he can retain the profit gained from quantity buying.

Without question, pneumatic conveying and bulk shipments can be a profitable combination for the Asbestos Industry.

The Asbestos Factbook

Unexpectedly heavy sales of the new edition of "The Asbestos Factbook" have necessitated printing a fresh supply at somewhat increased costs. To absorb these and the expected increase in postal rates, it is necessary to establish a new price of 90c per copy, including postage, on 1-10 copies. Bulk rates will be supplied on request.

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CONTROL OF ASBESTOS DUST IN JAPAN

[NIPPON ASBESTOS COMPANY LTD., TOKYO, HAS CONTRIBUTED THE FOLLOWING INFORMATION CONCERNING THE CONTROL OF DUST AT ITS ASBESTOS YARN AND CLOTH MANUFACTURING FACILITY AT OJI.]

The relationship between asbestos and lung cancer was publicly announced in Japan last August and Nippon Asbestos asked Dr. Zenji Horai to present a lecture and fully explain the matter to its employees. Dr. Horai is a Professor at Nara Prefectural Medical College and since 1952, at the Oji factory, he has been studying the effects of asbestos dust on the human body. He also was instrumental in the enactment of the Dust Control Act in Japan. Following is a summary of Dr. Horai's lecture, as translated by Nippon Asbestos.

Two workers have died since Dr. Horai began his investigation at the Oji factory. In one case the man had been working at the site of asbestos cloth manufacture for nearly 30 years before the condition of the environment had been improved. Inhalation of asbestos dust had reduced his lung function, thus weakening his heart. The other man died of an ulcer of the stomach but, in this case, he was already suffering from tuberculosis. It was established that the two deaths were hastened by the inhalation of asbestos dust. No cases of mesothelioma or lung cancer caused by the inhaling of asbestos dust have been found, thus far, in Japan.

Through X-ray examinations, dust was found in the lungs of 50% of the workers who had been working 6-8 hours a day for 15 years in an atmosphere containing 3mg of asbestos dust and talc per cubic meter. Of the workers in this group, from ½% to 1% showed a reduction in breathing capacity of 50% of normal and required medical consultation. Among those workers who started working at the Oji factory after 1956, none has exhibited symptoms requiring medical treatment for asbestosis.

At Nippon Asbestos, dust is measured by the membrane and digital dust counter method and the measurement standards correspond to those recommended by the Asbestosis Research Council, England. At the stage of opening asbestos fibers, loose fibers which might be scattered into the air are sucked into hoods installed over the chambers and are fed back into the flow of fiber in process. At the spinning and weaving areas, loose fibers and dust are sucked down through the floors. Workers are required to wear respirators which conform to Japanese standards.

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ACPA HEALTH & SAFETY COUNCIL

The Health & Safety Council, Asbestos Cement Products Association, has published its "Recommended Practices for Fabricating, Handling & Applying Asbestos-Cement Products in the Building and Construction Industries," containing separate chapters concerning "Housekeeping," "Shipping, Handling & Storage," "Fabrication & Application" and "Respiratory Equipment." Contractors and applicators are urged to study the recommended practices carefully and to see they are observed by all workers.

In the "Introduction" the Council writes: "The discovery and production of hundreds of natural and synthetic materials including asbestos-cement products has in some instances prompted the need for special protective equipment and practices that should be employed by all in the industry where dust is created. Manufacturers of asbestos-cement products have for years been taking protective measures to eliminate exposure of their workers to the inhalation of dust.

The booklet sums up the three major points to bear in mind: (1) keep dust to a minimum, (2) wear U.S. Bureau of Mines' approved respirators when exposed to dusts above federal, state or provincial allowable threshold limits, and (3) maintain good housekeeping at all times.

ASBESTOS: HEALTH PRECAUTIONS IN INDUSTRY

Booklet No. 44, "Asbestos: Health Precautions in Industry," has been prepared by the Department of Employment & Productivity and the Central Office of Information, as part of the series entitled "Health & Safety at Work." A copy is available at 3s 6d (70¢) from any of the offices of Her Majesty's Stationery Office or from British Information Services, 834 Third Avenue, New York, New York 10022.

The booklet briefly describes the varieties of asbestos fiber and their general uses, lists the types of factories in

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which asbestos and its products are used, and comprehensively covers methods to be followed to effectively control asbestos dust during industrial application and processing.

The various types of enclosures suitable for suppressing dust are descriptively detailed, i.e., total enclosure, partial enclosure with exhaust draft, booths, receptor and captor holds, and filtration and dust-settling plant. Protective equipment and clothing and vacuum cleaning techniques and plants are also described. The Appendix of the booklet is a complete list of "The Asbestos Regulations 1969."

Another chapter that will be of interest is titled "Substitutes." The physical and chemical properties of asbestos have been of such outstanding value for many technical purposes that alternative materials have not been readily found which would serve a particular purpose as well as asbestos. But the problem of providing adequate and effective precautions in some circumstances in which asbestos has been regularly used has been great and persistent search and experiment have produced a number of substitutes which users are finding satisfactory for different purposes.

CARBORUNDUM DUST COLLECTOR

The Carborundum Company, Niagara Falls, New York, has a new line of compact, lightweight, portable Type CU Dust Collectors, available in both mechanical and bag type models.

The bag type models are preassembled and equipped with IRONCLAD® filter media, and can be floor located, suspended from the ceiling or wheeled from station to station on optional casters. They are virtually maintenance-free and come equipped with a simplified, hand or foot actuated shaker mechanism.

The mechanical collectors work on the cyclonic separation principle which spins out the dust and drops it into a storage bin for easy removal.

All CU mechanical collectors are available with an optional polypropylene filter bag which increases efficiencies and allows recirculation of the clean air into the building, reducing heat loss during the winter months.

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NEW ASBESTOS PRODUCTS

R/M NOVATEX® ASBESTOS FABRICS

"NOVATEX—For Things Too Hot to Handle" is a new brochure from Raybestos-Manhattan, Inc., Bridgeport, Connecticut. Novatex is the new class of unusually lightweight and flexible asbestos textile developed by R/M. Produced by a new wet process, it conforms to ASTM Grade AAAA (99-100% asbestos content) and shows tensile strengths higher than those of conventional asbestos fabrics having up to twice the weight. At extreme heats the new material retains a higher percentage of the original tensile strength than glass fabrics of similar construction. The fabric is available in a variety of weaves and is offered in three square yard weights (8, 16 and 24 oz.).

Illustrations in the brochure show typical suggested uses for Novatex fabrics such as dryer felts in papermaking, protective garments, safety mitts, laundry and dry cleaning usage and industrial applications such as ducts, firewalls and cooling polluted air prior to filtration. Novatex elastomer composites are also offered to provide smooth, pressure-sensitive seals that meet F.A.A. "Fireproof" tests at 2000°F.

MIRAWELD™—FROM KAISER ALUMINUM

MIRAWELD, a new color-fused asbestos-cement building panel, has been introduced by Kaiser Aluminum/Mirawal Products, Port Carbon, Pennsylvania. A completely inorganic pigmentation, in a choice of 16 colors, is thermally fused to the asbestos cement core. Extra strength of asbestos fiber-reinforced Portland cement and silica board is achieved by a curing process combining high pressure and steam.

Miraweld panels have a fire hazard classification of "O" and are available in standard widths. Panel thickness is a uniform 5/32". Applications include such uses as facings over new or existing structures, curtain wall and window wall treatments, balcony and store fronts, soffits and fascia, and mansard roofs.

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WHY ASBESTOS?

A new documentary film, "Why Asbestos?", has been produced by Unit 7 Film Productions on behalf of the Asbestos Information Committee.

Asbestos, which has been called the magic mineral, is a unique material but how many people know what it is? Both a mineral and a fiber, asbestos forms the basis of thousands of products which make buildings, cars, ships and other forms of transport safer for all those who use them.

In less than 20 minutes, the 16mm, color/sound film describes in simple terms why asbestos is so indispensable, what it is and how it is used in the modern world. For example, road safety largely depends on asbestos in brake and clutch linings and gaskets. The film features a motor racing sequence and the dramatic fate of a motor car from which all asbestos-based parts have been removed. Firemen wearing aluminized asbestos clothing are shown walking unscathed through flames at 1500°C and a house is set afire for the comparative testing of materials.

Copies of the film may be obtained free on loan from the Sound Services Film Library, London; the National Audio-Visual Aids Library, London; or the Rank Film Library, Brentford, Middlesex. For those asbestos companies or associations outside Great Britain who are interested in purchasing copies, further details can be obtained from the Asbestos Information Committee, 10 Wardour Street, London W1V 3HG, England.

CERTAIN-TEED ACQUISITIONS

Certain-teed Products Corporation increased its holdings to about 81% in a subsidiary, Certain-teed Saint Gobain Insulation Corporation . . . . Certain-teed acquired a controlling interest in Realtec, Inc., a land development company based in Fort Lauderdale, Florida . . . . Negotiations were entered into by Certain-teed for the acquisition of Pluswood Industries, Oshkosh, Wisconsin, a privately-owned manufacturer of prefinished, embossed and vinyl-covered plywood paneling . . . . In an undisclosed cash and stock transaction, Certain-teed acquired the operations of B. F. Nelson Manufacturing Company, an asphalt roofing manufacturer in Minneapolis, Minnesota.

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Toronto 2, Ont.

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16772 Plainview Road

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Central Solvents & Chemicals Co.
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Chef Menteur Station

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936 Raymond Ave.

SALT LAKE CITY, UTAH 84110
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SANTA FE SPRINGS, CAL. 90670
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13900 Carmenita Road

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

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ASBESTOS TEXTILE INSTITUTE

The first meeting of the year of the Asbestos Textile Institute was held February 3-4, 1971, at the Red Carpet Inn, Charlotte, North Carolina.

Due to two resignations, N. D. Brown of Johns-Manville Corporation was elected to the Board of Governors replacing E. A. Schuman, and J. L. Rainey was replaced on the Board by J. W. Christenbury of American Asbestos Textile Corporation.

The usual Committee meetings were held and the final draft of the proposed instructional booklet, "Determination of Asbestos Fiber Concentration in Air by the Membrane Filter Method," was approved by the Air Hygiene & Manufacturing Committee and by the Board of Governors. Announcement will be made in a forthcoming issue of ASBESTOS when the booklet is available for distribution.

William J. W. Smith, Vice President & General Sales Manager, Bell Asbestos Mines Ltd., presented a review of the market for various Grades of asbestos fibers and stated that the severe winter weather had reduced production. The very short supply of low-iron Group 3 fibers still exists; a critical situation for U.S. asbestos textile manufacturers especially because of the embargo on low-iron Rhodesian fiber.

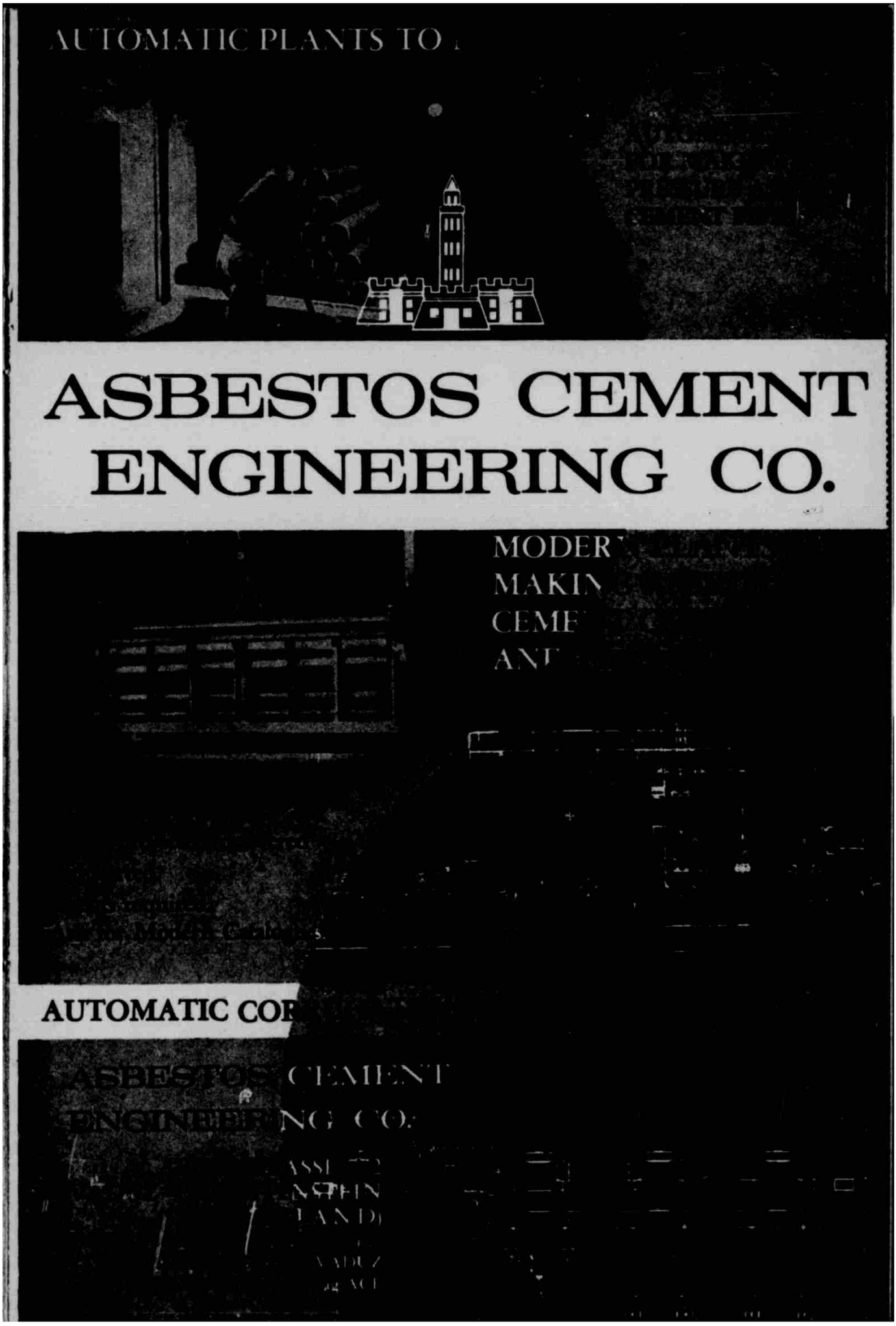
C. L. Sheckler, Chairman of the Environmental Health Committee, discussed the new "Federal Occupation Safety & Health Act of 1970," PL 91-596, which is to become effective April 28, 1971. He outlined its dust and noise standards and warned that producers and their customers may well face new exposure to penalties due to the newly-enacted law.

Through the courtesy of Raybestos-Manhattan, Inc., the members of ATI viewed the excellent promotional film, "Why Asbestos?" [This film is reviewed elsewhere in this issue.]

President Lawrence E. Moody reported that Ralph B. Smith passed away suddenly on January 21, 1971. Mr. Smith had been employed by Raybestos-Manhattan, Inc., at North Charleston, South Carolina, and had regularly attended ATI meetings for nearly twenty years. He served as Chairman of the Air Hygiene & Manufacturing Committee in 1960-61.

The next General Meeting of the Asbestos Textile Institute will be held June 9-10, 1971, at Cherry Hill Inn, Cherry Hill, New Jersey.

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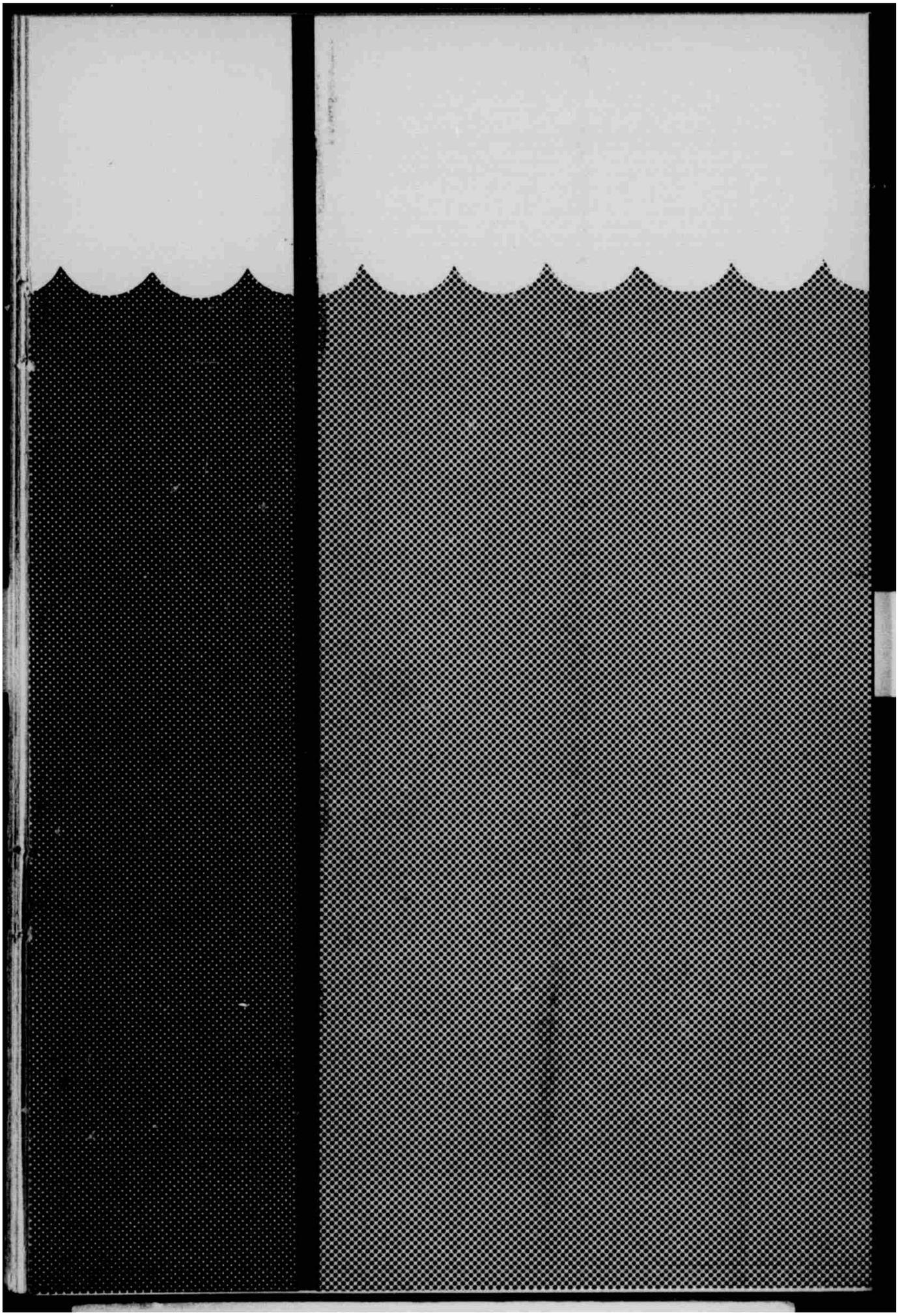
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NEWS FROM TRADE ASSOCIATIONS

THETFORD MINES BRANCH of the Canadian Institute of Mining & Metallurgy voted new executives for the 1970-71 season: C. Bourgoin, Chairman; C. G. Bourne, Vice Chairman; R. Dupre, Secretary-Treasurer; and L. Lacasse, Membership Secretary.

BOSTON INSULATION CONTRACTORS ASSOCIATION (the former Asbestos Contractors Boston Association) elected the following officers at its annual meeting in January: President—Walter F. Peterson and Secretary-Treasurer—Albert L. Sargent, both of Eastern Refractories, Inc. Members of the various Committees include Theodore Brodie, Norman Johnsen, Frank Jones, Bronius Kudirka, Dean Perkins, Walter Peterson, Walter Ramos, Albert L. Sargent, David Shepherd and William Slade.

EASTERN ATLANTIC STATES INSULATION CONTRACTORS ASSOCIATION, INC., is the new Regional group formed as a result of the merger last year of the Northeast Insulation Contractors Association and the Middle Atlantic States Insulation Contractors Association. The current officers of EASICA are William A. Bayer, President; Walter F. Peterson, Vice President; George Cummings, Secretary; and C. B. Wheatley, Treasurer.

NATIONAL HOME IMPROVEMENT COUNCIL held its annual meeting in January to elect 59 industry executives as officers and directors. Albert H. Fay, Vice President-Marketing & Research, National Gypsum Company, was elected President for 1971. Vice President is J. W. Anderson, President of Alcoa Building Products. Philip C. Johnson, Group Vice President at Bird & Son, was elected Treasurer and Charles Bainum, Vice President-Marketing, Panacon Corporation, is Secretary. Included among the Directors are Monte C. Carpenter of The Flintkote Company, Joseph G. Hall of GAF Corporation, Murray F. MacDonald of Johns-Manville Corporation and Edward Mongold of Certain-teed Products Corporation.

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COMMERCE TODAY is a new biweekly periodical that reports on new programs, achievements and services of the 20 agencies that make up the U.S. Department of Commerce. Through its pages the reader will explore the current activity and the outlook in such vital areas as the economy, international commerce, domestic business, science and technology, and environment and pollution control. The cost of a year's subscription (26 issues) is $20.00. Checks should be made payable to the "Superintendent of Documents" and orders should be placed with: Commerce Today, U.S. Department of Commerce, Washington, D.C. 20230.

A NATIONAL INDUSTRIAL MATERIALS COMMISSION has been established by the U.S. Government; jointly sponsored and funded by the Departments of Commerce and the Interior. The new organization will study American requirements, sources and available supplies for essential industrial raw materials between now and the year 2000 and it will inventory domestic and world resources for metals and minerals (except the energy sources, coal, gas, oil and uranium; currently under study by another commission).

THE INSTITUTE OF MINING RESEARCH was officially opened June 12, 1970, at the University of Rhodesia. Its object is to undertake research for the benefit of mining, specifically or generally, and to promote the collection, collation and dissemination of information of value to the mining industry.

At the risk of being considered immodest . . .

Asbestos people have told us that we've had no small part in up-grading the image of asbestos-cement. It was necessary!

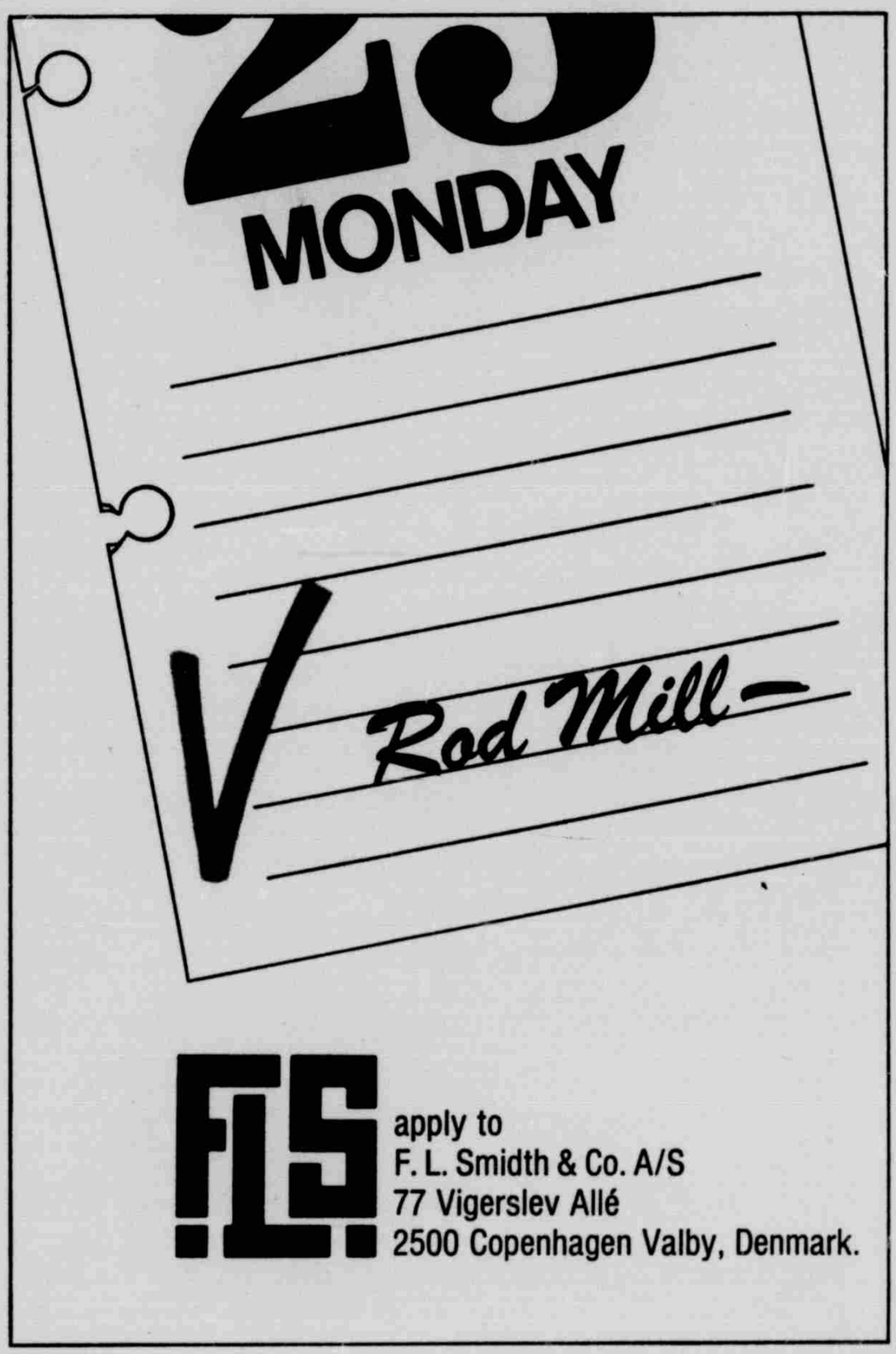
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MARKET CONDITIONS

GENERAL BUSINESS

Further cuts in interest rates are now being reflected in substantially lower rates on mortgage money which is acting as a stimulus to the already healthy housing industry. The only roadblock to a real boom in this field is the ever increasing cost of construction of all types. The Administration has taken steps to permit payment of less than prevailing wages on Federal construction projects in an effort to hold down construction costs, avoiding, for the moment, the imposition of wage-price control.

Latest figures indicate some slowing in price inflation but it remains to be seen how general price levels will react to the easier money situation now in evidence. The stock market has pushed upward and volume of stocks traded has been the heaviest in history.

Automakers are predicting a ten million car year but some observers are skeptical of this, partly on the ground that the expected strike in the steel industry would probably curtail car production substantially.

At this point, a steel strike seems almost certain as the union has indicated its demands will be such as to give its members gains comparable to those won by the autoworkers and other large unions in 1970 settlements. Large users are already stockpiling steel in anticipation of a lengthy work stoppage.

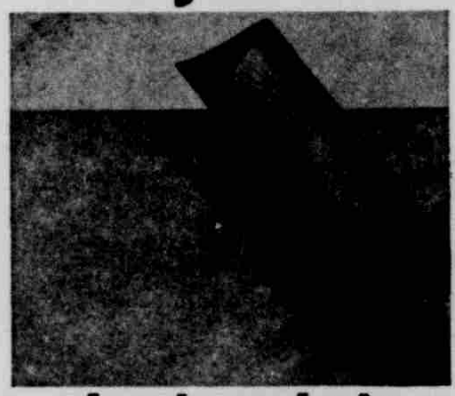
On the international scene, the bankruptcy of Rolls-Royce, while not comparable in size to the Penn-Central failure, poses a serious problem for Lockheed, the U.S.'s largest defense contractor, which already has problems on several huge military contracts and is now faced with unpredictable delays in production of the TriStar airbus.

The effects of the widening of the Southeast Asian conflict with the South Vietnamese incursions into Laos and Cambodia remain to be assessed.

While it is asserted no U.S. ground troops are being used in these operations, the commitment of strong air support is indicative of deep U.S. involvement and one can only wonder what effect these new operations may have on the de-escalation program previously in operation.

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CONSTRUCTION NEWS

From: McGraw-Hill Information Systems Company

JANUARY 1971 total contract value, at $4,383,206,000, was 9% less than in January 1970 and after seasonal adjustment was 11% below the strong December 1970 rate. The Dodge Index for January, which uses 1967=100 as its new base, was 117, down from December's 132. Contract statistics for January suggest that some hoped-for changes in the basic demand for construction may be taking place. During the past six months a steady rise in homebuilding has been compensating for a very shaky nonresidential market. In January a large amount of that housing support vanished temporarily and the fact that the Index held up as well as it did with less help from the housing sector is an encouraging sign. (Beginning with January, statistics will include Alaska and Hawaii. For comparison, 1970 data was adjusted to a 50-state basis.)

Nonresidential building contract value was $1,711,374,000 in January 1971, down 22% from the very high year-ago total. Schools and public buildings showed year-to-year gains.

Residential contract value, at $1,630,719,000, was 14% higher than in January 1970.

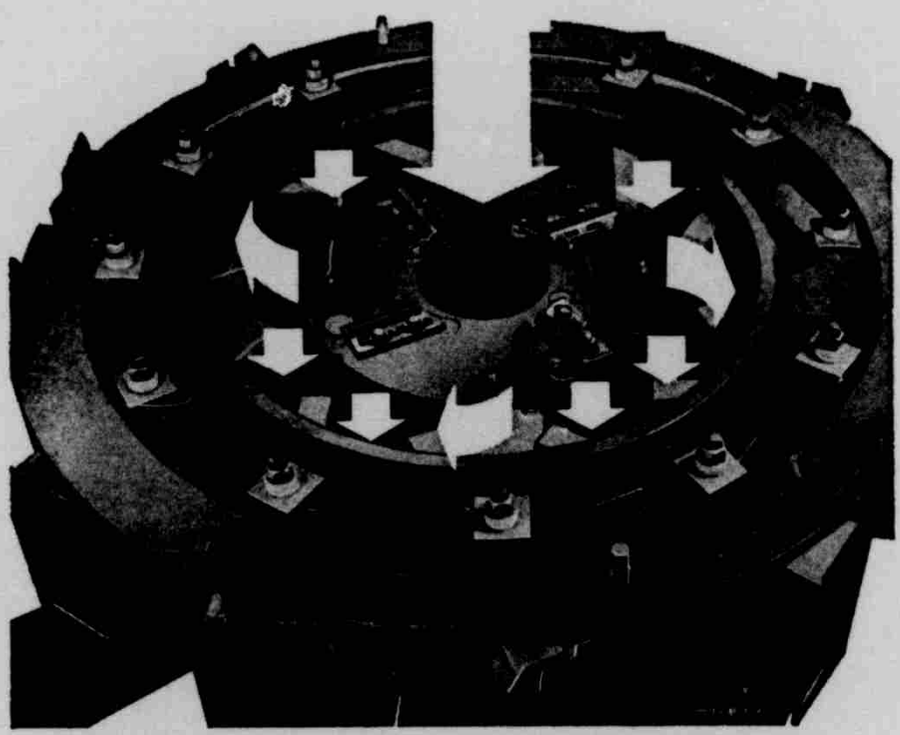
Nonbuilding construction, at $1,041,113,000, was down 14% from last January. Three new electric generating facilities put the utilities category up sharply.

MOTOR VEHICLE FACTORY SALES

DECEMBER 1970 motor vehicle factory sales from plants in the *United States* totaled 736,379 (passenger cars —598,829; trucks and buses—137,550). The total for the year 1970 was 8,239,257 (passenger cars—6,546,817; trucks and buses—1,692,440). These statistics compare with the year 1969 total of 10,146,894 (passenger cars—8,223,715; trucks and buses—1,923,179).

Motor vehicle factory sales from plants in *Canada* totaled 75,156 in December 1970 compared to 113,056 in December 1969. The total for the year 1970 was 1,171,311 against 1,342,772 for the year 1969.

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Simplicity's D'CENTEGRATOR fibrizes so thoroughly, the longer fibres are not "dirtied". The break-up action is pictured above schematically (our asbestos fibrizers actually have 12 bars). On-the-job performance also indicates a higher recovery rate and lower percent of fines. Both lower initial and maintenance cost make this 60 t.p.h. unit (2" cubical feed) an outstanding producer. Write or call about a test.



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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census — **NOVEMBER 1970**

Unmanufactured Asbestos:			
Crude & Spinning Fibers	s. tons	346	$ 66,996
Non-Spinning Fibers	s. tons	1,124	188,649
Waste & Refuse	s. tons	3,322	272,170
		4,792	$ 527,815
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,241,381	$ 118,844
Other Asbestos-Cement Articles	Lb	470,759	126,508
Asbestos Gaskets	Lb	54,918	53,905
Asbestos Packing	Lb	420,808	486,838
Asbestos Heat or Sound Insulation		..	239,366
Asbestos Textiles & Yarns	Lb	323,281	96,057
Asbestos Protective Clothing		..	17,656
Mfrs. Other than Friction Materials		..	265,170
Clutch Facings & Linings for Auto. Use	No	76,440	86,580
Clutch Facings & Linings, Other	No	196,240	61,374
Brake Linings for Automotive Use	Lb	385,367	298,090
Asbestos Brake Linings, Other	Lb	300,729	208,368
			$2,058,766

EXPORTS FROM CANADA

Figures from Dominion Bureau of Statistics — **NOVEMBER 1970**

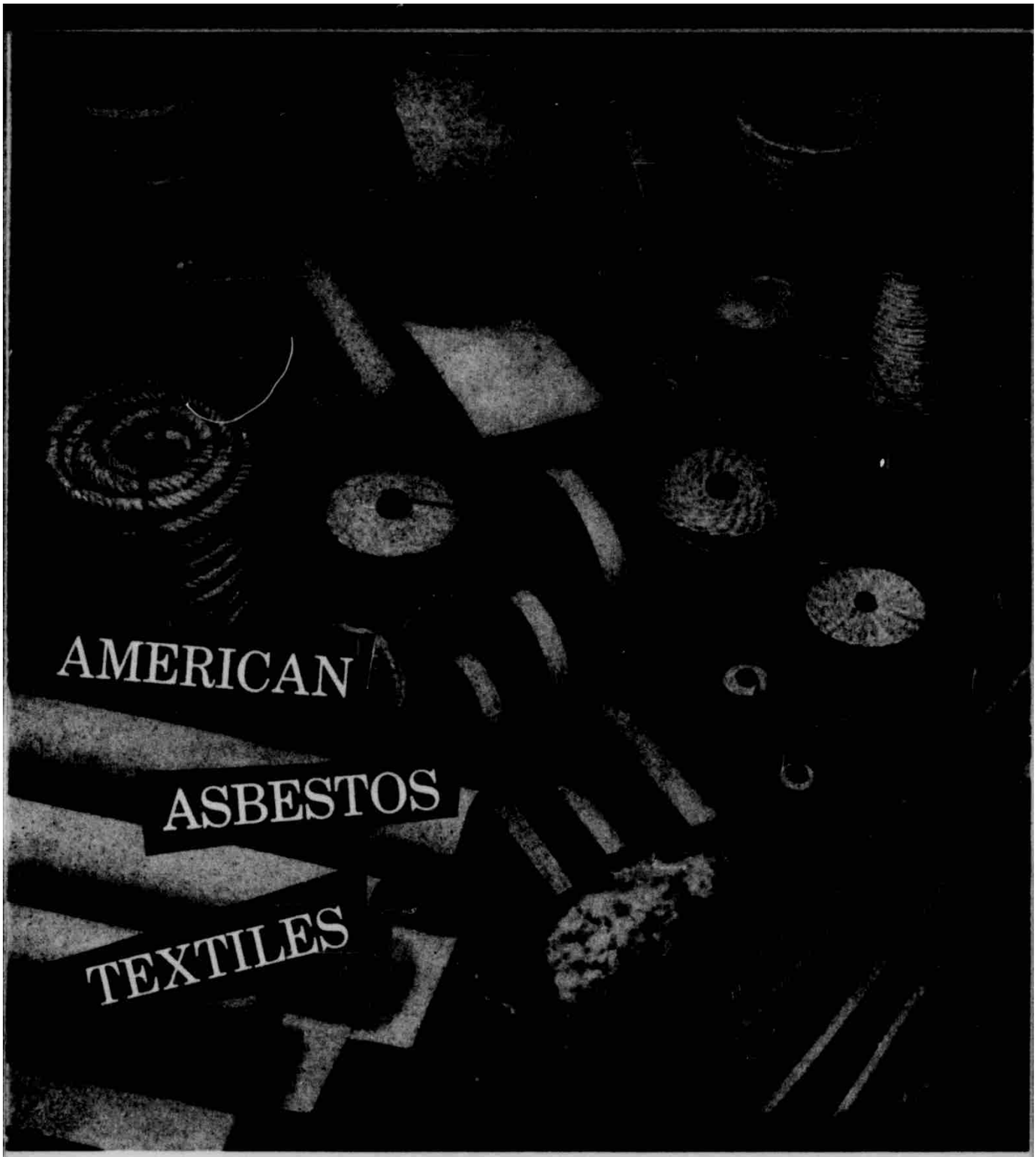
Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	1	1,504	36,084	21,279
Eastern Europe	..	304	1,824	485
Middle East	..	..	3,002	60
Africa	..	..	1,131	777
Asia	5	337	14,840	20,980
Oceania	..	..	2,810	2,220
So. & Cen. America & Antilles	..	74	10,257	3,804
United States	..	1,062	14,182	33,726
	6	3,281	84,130	83,331

The total amount of unmanufactured asbestos exported in November 1970 was 170,748 short tons, valued at $24,566,000.

Manufactured Asbestos Goods:	
Asbestos Brake Lining & Facings	$ 216,000
Asbestos-Cement Building Materials	383,000
Asbestos Basic Products, Other	156,000
	$ 755,000

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AMERICAN ASBESTOS TEXTILE CORPORATION

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BROCHURE FROM PACIFIC ASBESTOS CORPORATION

Pacific Asbestos Corporation, Copperopolis, California, has issued a descriptive and beautifully-illustrated brochure which, according to P. E. Holmes, President, tells the company's story of "improved production, high quality fiber, optimum service to customers and a strong corporate organization." By full-color photographs and tersely written copy, the reader is taken through the various stages necessary to produce a continuing supply of Groups 4 through 7 Chrysotile fibers. The brochure also lists the many uses of Pacific's "Mother Lode" fibers. The "Mother Lode" brand name derives from the historical '49er gold rush days when the very area of Pacific's mine was being over-run by fortune seekers.

ALLIED MINING GRANTED OPTION

Allied Mining Corporation Ltd., Montreal, was granted an option to purchase six mining leaseholds of *Asbestos Lloyd Mines Ltd.* in Midlothian Township, Ontario, for the consideration of 500,000 shares of Allied or $1 million. Allied has a 3-year working period to explore, develop, evaluate and determine the feasibility of the leaseholds on which a Chrysotile cross-fiber asbestos zone was previously outlined in earlier exploration. The company has acquired, by purchase, staking and option, some 1300 acres of mining rights so as to enclose the asbestos-bearing serpentine mass and its possible extensions. [The Northern Miner]

PATHFINDER ASBESTOS EXPLORATION

Pathfinder Resources Ltd., Vancouver, is planning a diamond drilling program on its recently-optioned 750-acre asbestos property in the Eastern Townships of Quebec, about 5 miles southeast of Asbestos. Upon completion of the terms of the option, Pathfinder will acquire a 50% interest in the property. It is recommended to proceed with exploration to evaluate the asbestos fiber potential of the property, including a preliminary program of diamond drilling in the area drilled by Ascot in 1951. All diamond drill core is to be logged visually and then laboratory tested for the recovery of various Grades of fiber and a magnetometer survey over the entire property is to be carried out. [The Northern Miner]

ALLSTATE EVALUATING TASMANIAN ASBESTOS

Allstate Explorations N.L., Sydney, Australia, sent samples from its Chrysotile asbestos deposits at Beaconsfield, Tasmania, to Canada for evaluation. Results are expected shortly. The exploration program is being carried out under a leasing agreement between Allstate and *Newmont Pty Ltd.,* Melbourne.

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BIRTHDAY GREETINGS TO . . .

H. D. S. Hardie, Director, Turner & Newall Ltd., Manchester, England, April 15.

Alfred G. Sinclair, General Manager of Canadian Products Division & President of Canadian J-M, Johns-Manville Corporation, Port Credit, Ontario, Canada, 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.

Kenneth Neve, Director, Turner & Newall Ltd., Manchester, England, April 19.

Harold E. Gilbert, Manager, Felt Mill, Philip Carey Company, Cincinnati, Ohio, April 20.

M. T. Voiles, Manager, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, April 21.

J. Stokes Clement, General Manager, Floor Products Division, 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, General Manager of Building Products, Building Products Division, GAF Corporation, New York City, April 24.

G. A. Whitehead, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 25.

D. L. Tchida, Estimator, Asbestos Products, Inc., St. Paul, Minnesota, April 26.

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.

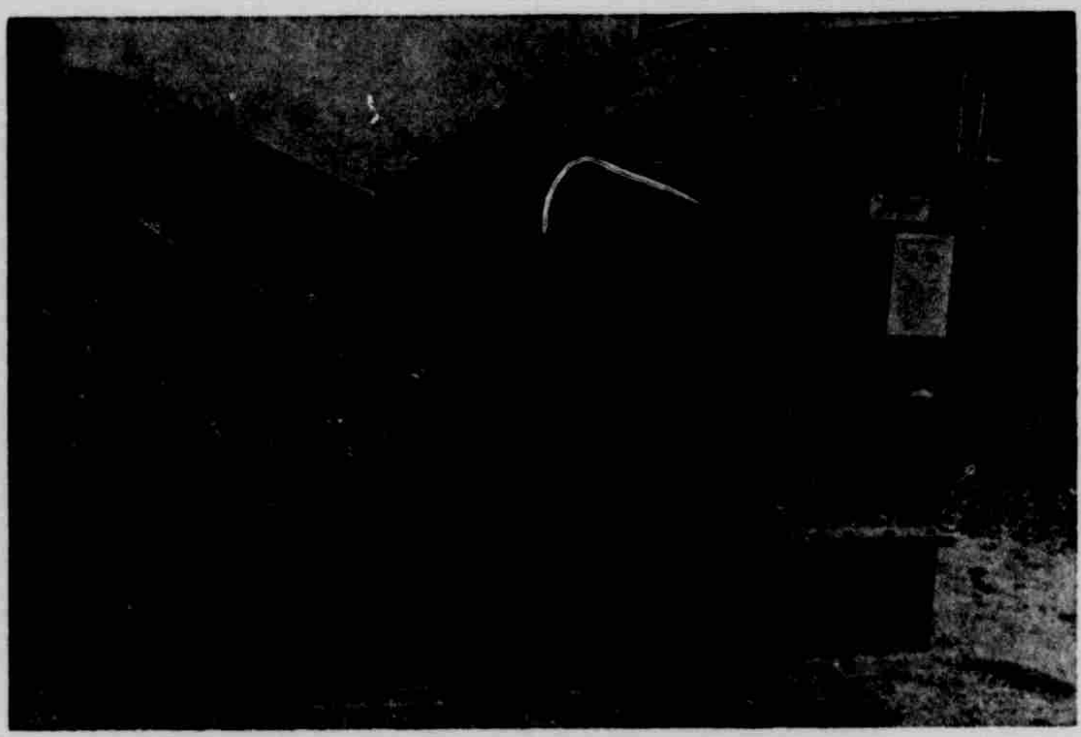
Guy George Gabrielson, Jr., President, Nicolet Industries, Inc., Ambler, Pennsylvania, May 4.

E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.

W. S. Cowell, Chairman, Albion Asbestos Packings Ltd., Montreal, Quebec, Canada, May 5.

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J. William Duncan, Vice President-Corporate Development Industry Relations, National Gypsum Company, Buffalo, N. Y., May 8.
John P. Hayes, President of Building Products Division & 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, Ontario, Canada, & President, Conwest Exploration Company Ltd., Vancouver, B.C., May 11.
R. B. Todd, Director & Vice President-Manufacturing, Atlas Asbestos Company, Montreal, Quebec, Canada, May 11.
G. R. Pushman, Managing Director, Newalls Insulation & Chemical Co. Ltd., Washington County, Durham, England, May 12.
Frank C. Waters, Marketing Director, Wunderlich Ltd., Sydney, N.S.W., Australia, May 12.

ASBESTOS STOCK QUOTATIONS

Close--February 23, 1971

Abitibi Asbestos	*$4.50	Gulf & Western	24½
Advocate Mines	*$2.30	G&W (pfd 1.75)	85
Asarco	26⅞	G&W (pfd 3.50)	103¼
Armstrong Cork	36⅛	G&W (pfd 3.87)	52¾
Armst Cork (pfd 3.75)	60½	G&W (pfd 5.75)	71
Asbestos Corporation	*$35.00	Illinois Central	32⅜
Bendix	34	Ill. Central (pfd 3.50)	59⅞
Bendix (pfd 3)	54	Johns-Manville	44⅝
Carlisle	16¾	Maremont	12¾
Cassiar	*$24.00	National Gypsum	24⅜
Cerro Corporation	19	Natl Gypsum (pfd 4.50)	65½
Certain-teed	28¼	Pacific Asbestos Ltd.	*$1.50
C-teed (pfd .90)	28½	Panacon	3⅝
Conwest	*$9.70	Porter (pfd 5.50)	71
Flintkote	26⅞	Raybestos-Manhattan	27½
F-kote (pfd-A 4.50)	81½	Royal Industries	10⅝
F-kote (pfd-B 2.25)	38½	Unarco	13⅛
GAF Corporation	14⅛	Union Carbide	43¾
GAF (pfd 1.20)	22	Uniroyal	20⅜
Garlock	20	Uniroyal (pfd 8)	106
Grace	32⅝	United Asbestos	4¾

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

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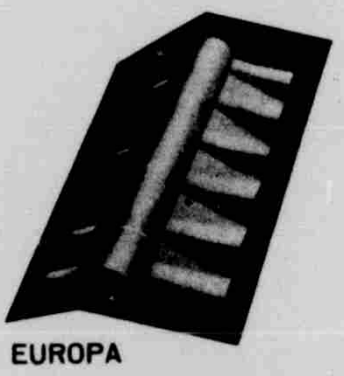
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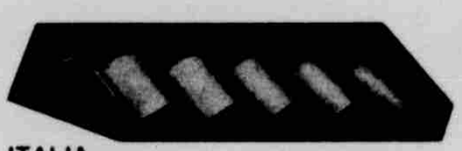
RIDGES



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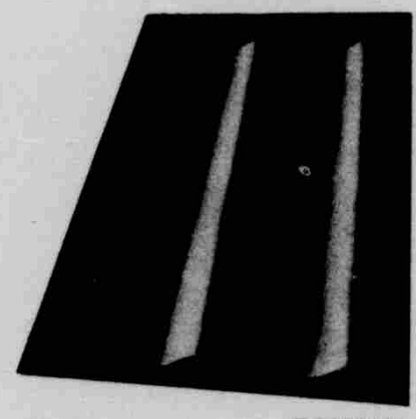


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BOOKS & PAMPHLETS

Air Pollution Control Processes & Equipment 1968 (Chemical Process Review 24), by Marshall Sittig—describes processes and equipment that can be licensed or purchased to combat current and future environmental control problems. [$35.00; may be ordered through ASBESTOS or direct from Noyes Data Corporation, Park Ridge, New Jersey]

Worldwide Directory for Mineral Industries, Education & Research—announced by Diffusion Information Center, Cleveland, Ohio, as an international research directory for those interested in metallurgy, mining and petroleum engineering and geosciences. University Departments, including research and teaching staff members, are listed and departmental activities and research projects are given. [$35.00 plus shipping & handling (55¢ to the United States and 75¢ to all other countries); available through ASBESTOS or from Gulf Publishing Co., Houston, Texas]

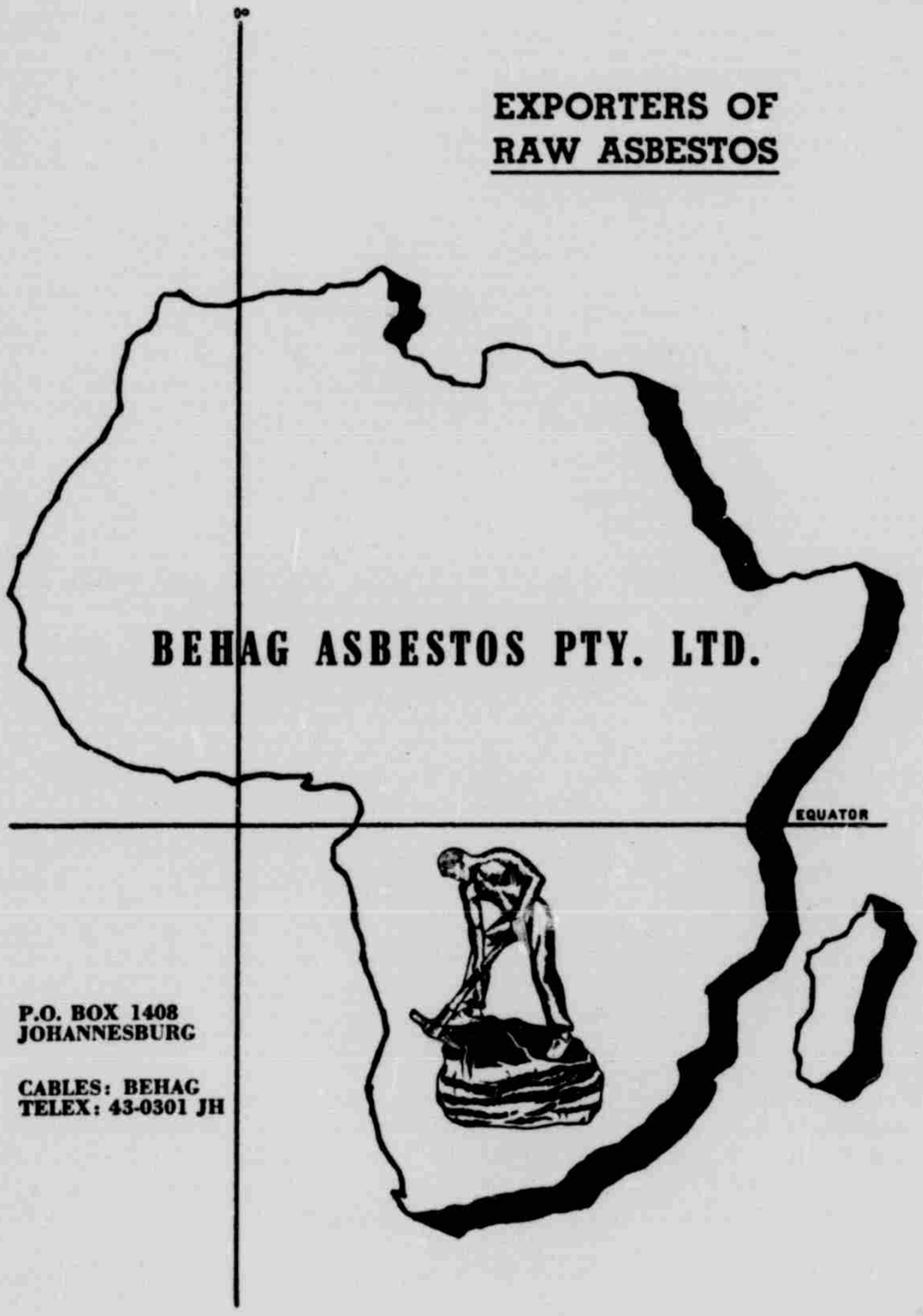
Every Square Inch—a fascinating little book published by the Department of Energy, Mines & Resources, Ottawa, to tell in simple, non-technical language how to read a topographic map and how such maps are made. There is a chapter on the projection and grid used on Canadian topographic maps and another on Canadian place names and their origin. The last of the five chapters is a detailed examination of five typical maps, each drawn to a different scale. [$1.25; available from the Map Distribution Office, 615 Booth Street, Ottawa; make checks payable to "Receiver General of Canada"]

Mining: What It Means to Canada 1970—concerned with highlights in 1969 and a review by Provinces, mining as a frontier industry, the perspective of history and industry today, the search for new mines, the global market, how mining boosts the economy and brief paragraphs on the 60 different precious metals, base metals and industrial minerals produced in Canada; also discusses the value of research, government and private enterprise, investment and taxes. [Mining Association of Canada, 20 Toronto Street, Toronto 210; available in French or English]

Selected Advances in Insulation Technology—identifies a number of selected innovative processes, accessories, devices and testing procedures which provide protection against the destructive effects of acoustical, electrical, radiant, thermal and vibrational exposure. These advances evolved from U.S. Government space, nuclear energy and Defense programs. [published by the Small Business Administration, Washington, D.C. in close cooperation with the National Insulation Contractors Association, Silver Spring, Maryland]

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ASBESTOS PRICES

Quebec asbestos fiber price increases, originally effective January 1, 1971, have been deferred to *July 1, 1971.* Therefore, the range of prices under "Canada" as listed in November 1970 ASBESTOS, effective January 1, 1970, are still in effect. All other prices for "Arizona," "Cassiar" and "Vermont" asbestos fiber remain as listed in January 1971 ASBESTOS.

CANADA'S MINERAL PRODUCTION

A new all-time high was reached for shipments from Canadian mineral production in 1970. The total value was an estimated $5,768,721,200. Shipments of metals and metals in ores and concentrates were valued at $3,115,462,400. Mineral or fossil fuels shipped during the year had a total value of $1,718,041,000. The estimated value of structural materials declined slightly from the preceding year to $436,768,000. Products made from domestic clay were valued at $44,059,000 and cement shipments decreased slightly to $160,440,000. Sand and gravel used for roads, concrete aggregate, etc., accounted for $117,400,000, stone added $95,850,000 and shipments of lime were estimated at $19,019,000.

Nonmetallic minerals shipped during 1970 were valued at $498,449,000, an increase of 10.7% over 1969. Shipments of *asbestos,* at 1,654,000 tons, increased by 2.7% while the value increased by 10.3% to $215,270,000. [Catalog 26-202, Preliminary Estimate, Dominion Bureau of Statistics, 25¢]

MINERAL INDUSTRY SURVEY

Asbestos in 1970—Production of asbestos in the United States during 1970 was almost the same as in 1969. Total production (Chrysotile & Anthophyllite) was approximately 126,000 short tons. The total estimated value at $10,900,000 was only slightly higher than that in 1969. The average value per ton rose from $82.00 in 1969 to about $87.00 in 1970. Reflecting a minor slow-down in construction activity, apparent consumption totaled about 745,000 tons, some 5% below the previous year.

Although Canada continues to be the major supplier of asbestos consumed in the U.S., imports dropped slightly from a total of 695,000 tons in 1969 to about 661,000 tons in 1970. Based on imports for six months, the Republic of South Africa supplied about the same amount of asbestos as in 1969—16,700 tons of Crocidolite and 9,200 tons of Amosite.

Subsequent to the 3% increase in January 1, 1970, quoted prices of Canadian asbestos remained steady during the year. Prices of asbestos from both domestic and foreign sources ranged from $47.00 per short ton for Shorts to $1650.00 per ton for No. 1 Crude. [Annual Preliminary Report, U.S. Bureau of Mines]

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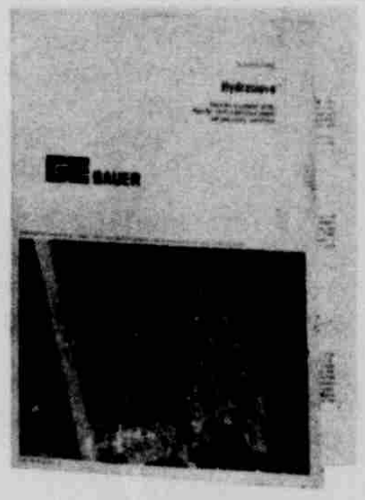
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MEN ON THE MOVE

JOHNS-MANVILLE CORPORATION

At a regular meeting of the Board of Directors in January it was announced that **Clinton B. Burnett** resigned as Chairman of the Board, effective December 31, 1970. Mr. Burnett joined J-M in 1931 and served as President and Chief Executive Officer from 1960 until December 1, 1970, when he was named Chairman. He will continue to provide his valuable knowledge and guidance on all matters concerning J-M in the capacity of a Consultant.

NATIONAL GYPSUM COMPANY

Darwin D. Tucker was elected to the newly-created position of Corporate President & Chief Operating Officer. Formerly President & Chief Executive Officer of Meredith Corporation, Mr. Tucker will be responsible for National's 7 operating divisions and will report to **Colon Brown,** Chairman of the Board & Chief Executive Officer. In making the announcement Mr. Brown said, "In the past the functions of this new office have been the direct responsibility of the Chairman of the Board. Since 1967 international expansion with new facilities and acquisitions into new fields have increased the scope of company activities with numerous new facilities and 3 new major divisions. The scope and volume of our business is planned to continue to expand to the extent that added depth in management is indicated at this time."

H. K. PORTER CO., INC.

J. C. Carpenter was appointed Sales Service Representative with the Asbestos Group of the Thermoid Division. His territory includes Indiana, Kentucky, Michigan, Ohio, Western Pennsylvania, West Virginia and Western Ontario. Prior to joining Porter Mr. Carpenter was with Pole Buildings, Charlotte, North Carolina.

RAYBESTOS-MANHATTAN, INC.

Philip G. Dolan is the new Director of Marketing Services for R/M, Bridgeport, Connecticut, responsible for directing all corporate marketing service functions including communications, product development, sales forecasting and marketing planning and research. He was previously Sales Manager with American Air Filter Co., Inc., Louisville, Kentucky.

Daniel L. Juhl was appointed General Manager of Raybestos-Manhattan (Canada) Ltd., Peterborough, Ontario. Mr. Juhl's most recent position was Manager-Manufacturing of the Manheim Division. He joined R/M in 1961 as a field salesman in the Reinforced Plastics Section.

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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. 3,554,860—Organic fiber-Anthophyllite fiber sheet as a friction material for use in wet clutches or other oil environments; A. J. Lacroix, Jr.; assigned to Raybestos-Manhattan, Inc.; January 12, 1971; 2 pages.

U.S. 3,554,861—Heat-resistant, fibrous Chrysotile-Crocidolite asbestos board with composite bentonite-starch binder; E. D. Ermenc & M. F. Smith; assigned to Panacon Corporation; January 12, 1971; 3 pages.

British 1,213,247—Use of Chrysotile asbestos, preferably of the Coalinga, California, type, as a reinforcing filler in extrudable nylon compositions; assigned to Dart Industries, Inc., November 25, 1970; 13 pages.

British 1,213,579—Method for improving the dimensional stability of thermal insulation shapes comprising mainly calcium silicate and Amosite or Chrysotile asbestos; T. L. Forsyth; assigned to Newalls Insulation & Chemical Co. Ltd.; November 25, 1970; 7 pages.

British 1,215,271—Use of 5-15% by weight of colloidal Chrysotile asbestos of the Coalinga, California, type in a lubricating grease having long lubricating life, a high dropping point and insolubility in water; A. J. Morway & A. J. Bodner; assigned to Esso Research & Engineering Co.; December 9, 1970; 4 pages.

British 1,215,844—A hot top for steel ingots is formed by spraying through a propane flame a mixture of about 87% by weight of sand, 8% of phenolformaldehyde resin and 5% of Amosite asbestos; R. F. Molsom; assigned to Foseco Trading A.G.; December 16, 1970; 2 pages.

Canadian 860,205—In the production of asbestos strands, a dispersion of asbestos is formed through a nozzle and the formed strand coagulated on the surface of a moving body; W. Wilke & H. Fetzer; assigned to Rex Asbestwerke Graf von Rex KG; January 5, 1971; 32 pages.

Canadian 860,396—Use of up to 45% by weight of asbestos shorts in a chloroprene emulsion composition for forming insulating, flame-resistant coatings on wood or metal surfaces; T. P. Clark & P. C. Russell; assigned to British Columbia Research Council; January 5, 1971; 13 pages.

Canadian 861,405—An additive for decreasing loss of drilling fluid in wells comprises long Chrysotile asbestos fibers and a relatively high proportion of ground black walnut shells; J. N. Ryals, D. B. Anderson & B. V. Randall; assigned to Amoco Canadian Petroleum Co. Ltd.; January 19, 1971; 32 pages.

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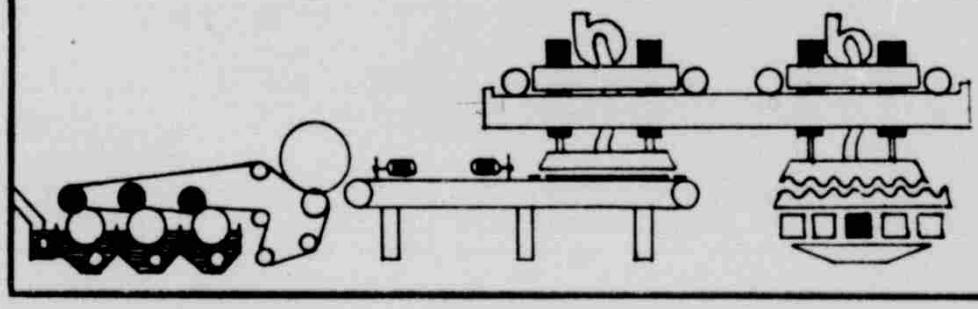
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CALENDAR OF EVENTS

Noise & Vibration Control Seminars—sponsored by Bolt Beranek & Newman Inc.; April 2-3 or 6-8 in Houston, Texas; April 12-13 in Dallas, Texas; April 16-17 in El Paso, Texas; and April 21-23 or 26-27 in Los Angeles, California.

National Conference of States on Building Codes & Standards—National Bureau of Standards serves as Executive Secretary; Olde Colony Motor Lodge, Alexandria, Virginia; April 18-22.

ASTM Committee Week—D-30 on High Modulus Fibers and Their Composites and E-10 on Radioisotopes and Radiation Effects; Convention Center, Anaheim, California; April 18-23.

2nd International Consumer Goods Fair—organized by Brno Fairs & Exhibitions; Fair Grounds, Brno, Czechoslovakia; April 18-25.

ASTM Committee F-3 on Gaskets—ASTM Headquarters, Philadelphia, Pennsylvania; April 19-23.

Design Engineering Show & Conference—the Show at the New York Coliseum and the Conference at the Americana Hotel, New York City; April 19-22.

2nd Conference on Composite Materials: Testing & Design—ASTM in conjunction with the Metallurgical Society of AIME; Convention Center, Anaheim, California; April 20-22.

Construction Industry Advertising & Product Literature Conference—Marriott, Chicago, Illinois; April 21-22.

8th Symposium on Non-Destructive Evaluation in Aerospace, Weapons Systems & Nuclear Applications—El Tropicano Motor Hotel, San Antonio, Texas; April 21-23.

Symposium on Testing for Prediction of Material Performance in Structures & Components—Convention Center, Anaheim, California; April 21-23.

CIM 73rd Annual General Meeting—Canadian Institute of Mining & Metallurgy; Le Chateau Frontenac, Quebec City; April 25-28.

Low Frequency Electrical Standards—National Bureau of Standards, Gaithersburg, Maryland; April 26-28.

17th Annual Meeting & Equipment Exposition—Institute of Environmental Sciences; Biltmore Hotel, Los Angeles, California; April 26-30.

10th International Symposium on the Application of Computer Methods in the Mineral Industry—S.A. Institute of Mining & Metallurgy, Johannesburg, April 9-14, *1972*; synopses of papers must be submitted by April 30, 1971.

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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'.

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Remember When?

(March 1921 ASBESTOS)

New Advertisers:

The Asbestos Corporation of America;

Nederlandsche Asbest Maatschappy.

This issue contained an article titled "Asbestos Mining in Vermont," tracing the history of such activities from the original discovery in 1892 to the end of 1920.

C. H. Thompson, Vice President of The Asbestos Corporation of America, stated that the Corporation's mining and milling operations on Belvidere Mountain would be actively producing by May, 1921.

The Waite-Wild Asbestos Co., Inc., of Framingham, Massachusetts, opened a New York Office for the sale of asbestos textiles. Waite-Wild was sole distributor for manufactured products of Cape Asbestos Co., Ltd., London, England.

A Branch of the Canadian Institute of Mining & Metallurgy was established at Thetford, P.Q., with the Hon. George R. Smith as Chairman and W. J. Woolsey as Secretary-Treasurer.

A motion picture, "A Dollar Saved is a Dollar Earned," showing the need for insulation and the savings resulting from its use was released by the manufacturers of pipe and boiler coverings.

The Norristown Magnesia & Asbestos Co. took out a Fellowship in the Mellon Institute for research into the manufacture of pipe and boiler coverings made by the company.

„ Tropag "

Hamburg —:— Ballindamm 6

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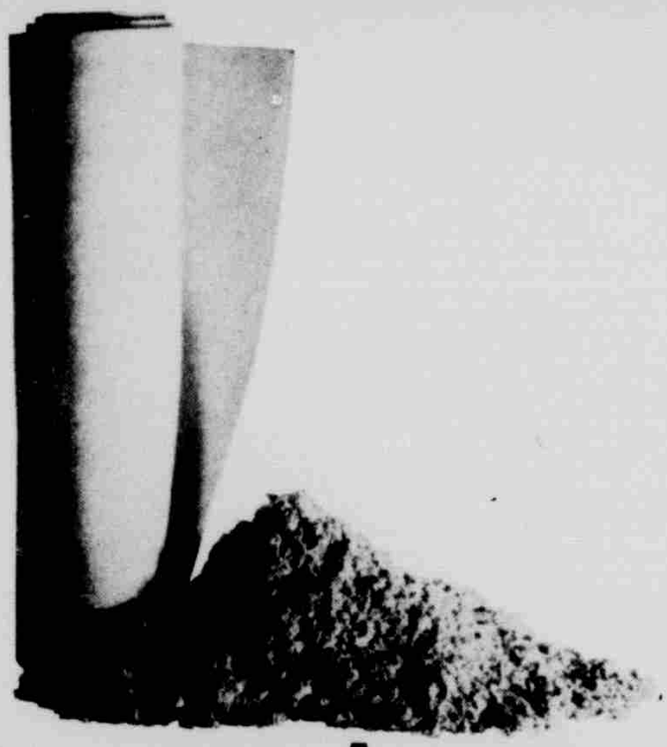
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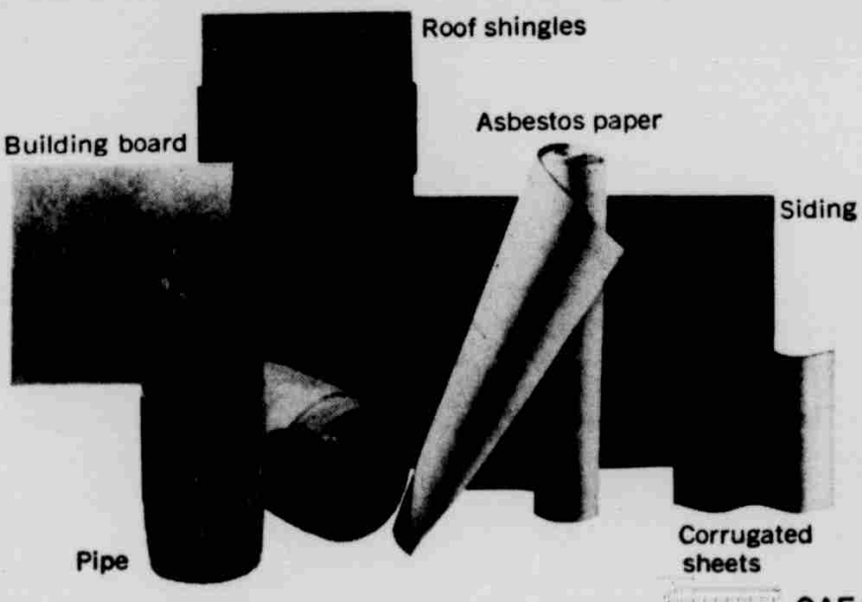
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