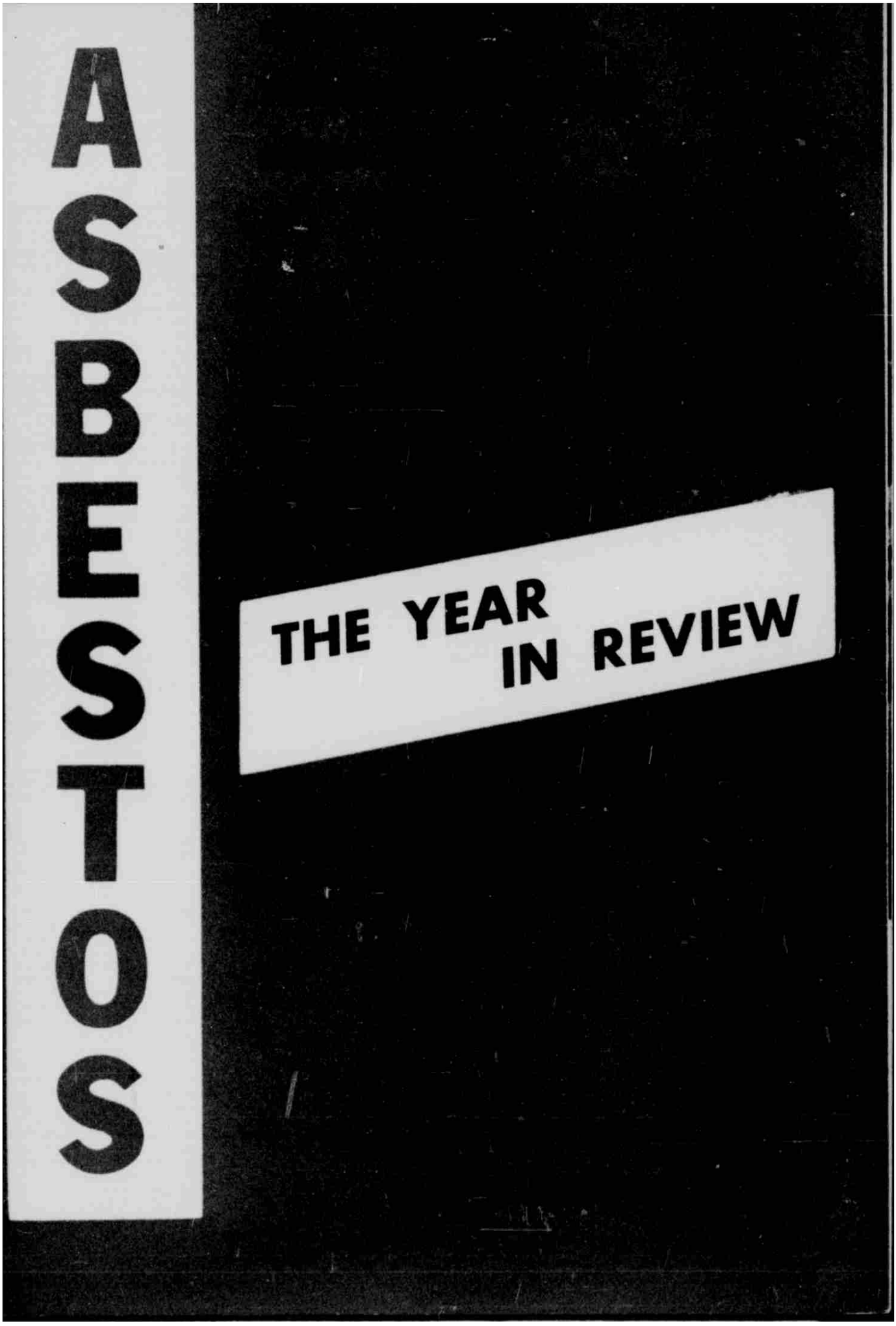


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ASBESTOS

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1970—THE YEAR IN REVIEW

1970 has been an active year for the Asbestos Industry. Ecology is uppermost in the minds of all people and much effort is being put forth in the search for ways to improve the environment of man. For instance, in response to President Nixon's message to the Congress in which he said the task of cleaning up our environment calls for a total mobilization of all of us—involving governments at every level and requiring the help of every citizen—the U.S. Department of the Interior sponsored a "National Environmental Pollution Conference and Exposition" with the hope of coming up with some productive answers to the search for new and more efficient methods, approaches and techniques for winning the battle for a better national environment.

This is not a new field of endeavor so far as our Industry is concerned. For many years the Asbestos Industry has been working toward bettering its techniques to control and virtually eliminate dust at the mines and at the manufacturing plants. These efforts are now being extended to include dust suppression at construction sites with the ultimate aim of improving the environment of both the worker and the general public. Many companies are now enforcing regulations and encouraging their employees at the job site to wear newly-developed, effective respiratory equipment to combat the hazards of dust pollutants. Rules of good housekeeping are also being strengthened and executed to contain dust at the construction site and to prevent its release to the atmosphere. Laws and recommendations are being issued not only by industry but also by trade associations and government agencies. Following is a brief account of what has been recorded in ASBESTOS during the year concerning environmental and industrial health and safety.

ENVIRONMENTAL/INDUSTRIAL HEALTH & SAFETY

A research team from the Medical Faculty of *McGill University* conducted a three-year survey into the health of workers in Quebec's asbestos mining industry. Among the findings of the study is that at present levels of dust exposure in modern asbestos mills, even 30 years employment

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would probably not carry any measurable risk of lung cancer. The results are encouraging in that they suggest the risk of contracting respiratory cancer is virtually confined to levels of dust exposure which are controllable, if not already controlled, in most Canadian asbestos mines and mills. The study was supported by substantial grants from the Institute of Occupational and Environmental Health of the Quebec Asbestos Mining Association as well as from the U.S. Public Health Service and formed part of an international research program coordinated by the Union Internationale Contre le Cancer. The research program will continue, with Asbestos Industry support, for another five years.

The *U.S. Department of Health, Education and Welfare* awarded a first-year grant to the University of Nevada for a study of the "Aqueous Surface Chemistry of Asbestos Minerals."

The *Insulation Industry Hygiene Research Program* continued to issue its quarterly Insulation Hygiene Progress Reports. Included in the reports were such items as (1) the testing of systems designed to reduce dusts produced as a result of cutting molded insulating materials with band saws; (2) field testing and subsequent utilization of a new plastic bag for shipping and mixing asbestos cement; (3) the promulgation of interim orders governing the spraying, on construction sites in New York City, of any insulation material containing asbestos; and (4) a study of conditions existing in connection with insulation work on many types of ships.

Mount Sinai School of Medicine sponsored an historical first in occupational medicine by presenting a four-day postgraduate course on all aspects of the health effects of asbestos.

An "Occupational Health Program" was approved and an agreement was made for its implementation by the Trustees of the *Western States Asbestos Health Plan.*

The "Health & Safety Council" of the *Asbestos Cement Products Association* is actively engaged in initiating, developing and directing studies and public relations programs designed to lawfully promote and foster such health and safety policies and programs for the asbestos-cement industry as will tend to appraise and resolve any health and safety problems peculiar to that industry. The Council recently published a

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pamphlet on "Recommended Practices for Fabricating, Handling and Applying Asbestos-Cement Products in the Building and Construction Industries."

The *Sprayed Mineral Fiber Manufacturers Association* issued a statement advising that New York City regulations for spraying asbestos fireproofing materials on large buildings are being followed fully and carefully to keep asbestos dust from spreading into the air at construction sites. SMFMA issued a revised code of work practices for its member companies and their employees, designed to further improve the safe handling of asbestos-containing products intended for spraying.

The *U.S. Bureau of Mines* is conducting Federal inspections and is enforcing, as of July 31st, Federal health and safety standards for operating non-coal mines.

BBA Group Ltd. published a comprehensive and informative description of the formation and activities of the "Industrial Health Unit, 1959-1969."

Under the new Asbestos Regulations now in force in the United Kingdom, the protection of workers from industrial disease which might arise from the inhalation of asbestos dust became a statutory obligation wherever asbestos materials are used in such a way as to give rise to the emission of dust dangerous to the health of employees. For the assistance of those concerned with control of working conditions in accordance with the Asbestos Regulations, the Environmental Control Committee of the *Asbestosis Research Council* prepared a series of eight "Control and Safety Guides."

"Asbestos: Health Precautions in Industry" is the topic of the 44th in a series of booklets entitled "Health & Safety At Work," prepared by the *Department of Employment and Productivity* and the *Central Office of Information*, London, England.

"The Asbestos Rule" will take effect July 11, 1971, thereby making *Queensland* the first State in *Australia to* introduce a Rule controlling work with asbestos and to prevent the occupational disease "asbestosis."

The *Canadian Institute of Mining and Metallurgy* printed various articles in the CIM Bulletin concerning the control of dust. Among them are: "Fibrous Dust—Its Measurement and Control," "Dust—Sampling Research and Its Applica-

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tion to Mining," and "The Electronic Scanner—An Instrument for the Rapid Counting of Konimeter Dust Spots."

Canadian Industries Ltd., under the auspices of the *Canadian Council of Resource Ministers,* published a "Digest of Environmental Pollution Legislation in Canada," the first comprehensive compilation of existing legislation in Canada on air, soil and water pollution.

Johns-Manville Corporation licensed *The Wheelabrator Corporation* to engineer, produce and market a new concept in industrial air pollution control. Called "HEAF" for High Energy Air Filter, the process was designed and developed by J-M and will be marketed under the Wheelabrator name of "Ultra-Dyne."

MERGERS/ACQUISITIONS/AGREEMENTS/ EXPANSIONS

American Smelting and Refining Company agreed to sell 2,028,000 shares of stock of General Cable Corporation to *British Insulated Callender's Cables Ltd.* for cash.

As part of its continuing expansion program, *The Bauer Bros. Co.,* a subsidiary of Combustion Engineering, Inc., appointed a number of firms to market its Industrial Division equipment for classification, size reduction, liquid expression, dewatering and separation.

Bendix Corporation signed a definitive agreement to merge with *American Forest Products Corporation.*

The Carborundum Company acquired *Spencer & Halstead Ltd.* of Ossett, Yorkshire, England, a manufacturer of dust collecting equipment.

Philip Carey Corporation, a wholly-owned subsidiary of Glen Alden Corporation, merged into *Briggs Manufacturing Company.* The name of the surviving corporation is "Panacon Corporation" and both Carey and Briggs are operating as divisions of Panacon.

Certain-teed Products Corporation purchased the Badger equipment from *Hudswell Badger Ltd.,* England, and is now licensee for the Badger System in the United States. A new subsidiary has been formed called "Certain-teed Badger" . . . *Certain-teed Saint Gobain Insulation Corporation* is now a 65%-owned subsidiary of Certain-teed Products. The company was formed in 1967 as a jointly-owned company by

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Certain-teed and the French firm of Compagnie de Saint Gobain. . . . Certain-teed joined with a group of investors who plan to acquire substantially all of Compagnie de Saint Gobain's interests in *American Saint Gobain Corporation.* The glassmaking company will be renamed "ASG Corporation". . . . Certain-teed's corporate offices have been relocated to a new headquarters complex at Valley Forge, Pennsylvania.

Everite Ltd. is constructing a new pipe plant at its factory at Kliprivier, Transvaal, Republic of South Africa. . . . Following its acquisition of Asbestos Cement and Engineering (Pty) Ltd., a Windhoek Company, Everite is now formulating plans to build a new factory in South West Africa. . . . Everite's existing plant at East London increased production capabilities through a R500,000 expansion program. . . . New office buildings are being constructed at Everite's Brackenfell Cape factory.

GAF Corporation is undertaking a major expansion program at its floor products plant at Whitehall, Pennsylvania, including the construction of a new asbestos felt mill, additions to existing print lines and modifications of existing ovens. Completion is expected by the end of next year. . . . GAF completed the multi-million dollar expansion project at its chemicals plant at Linden, New Jersey.

Hazemag (Canada) Ltd., manufacturer of impact crushers, crusher dryers and dryers, is operating from its new offices in Pointe Claire, Quebec, near the Dorval Airport. The firm's warehouse and crusher test plant are also located on the new premises.

Johns-Manville Corporation completed its new fiber glass research and development center at Waterville, Ohio, less than a mile from the manufacturing plant. . . . J-M increased disc brake capacity fivefold to better meet the future needs of the replacement market for disc brakes. A new disc brake plant, located near Laurinburg, North Carolina, has been equipped with high-speed, multi-cavity molds, presses and quality control equipment. . . . *Canadian Johns-Manville* is building a new 86,000 square foot asbestos manufacturing plant at Asbestos, Quebec, for the production of a variety of products such as textiles, railway brake shoes and rubber rings for Transite pipe applications. It will be situated near

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the new complex now underway at Jeffrey Mine.

Paul J. Krez Company and its wholly-owned subsidiaries, Asbestos-Spray Contractors, Inc., and Spray Insulations, Inc., are occupying a new building in Tam-O-Shanter Industrial Park, Niles, Illinois. Krez is an insulation-contractor.

National Gypsum Company reached an agreement in principle for the acquisition of *Suburban Homes,* Valparaiso, Indiana, a producer of sectional and panelized houses. . . . *DMH Corporation* merged with National Gypsum and is now one of National's operating divisions, manufacturing mobile homes and developing and operating mobile home subdivisions.

H. K. Porter Company, Inc.—With the installation of additional treating equipment, the Thermoid Division is now in full production of its lint-free asbestos cloth. The new equipment is also utilized to produce a companion line of lint-free rewettable asbestos lagging.

Raybestos-Manhattan, Inc., expanded disc brake capacity at its plant in Stratford, Connecticut. . . . R/M combined its Equipment Sales and its Plastic Products Divisions to provide better service to customers. The Division handles sales of friction materials to the original equipment market and seeks increased commercial market penetration for high-temperature reinforced plastics and TFE products. . . . R/M now operates eight distribution facilities since the construction of a new corporate distribution center in Bensalem Township, Bucks County, Pennsylvania.

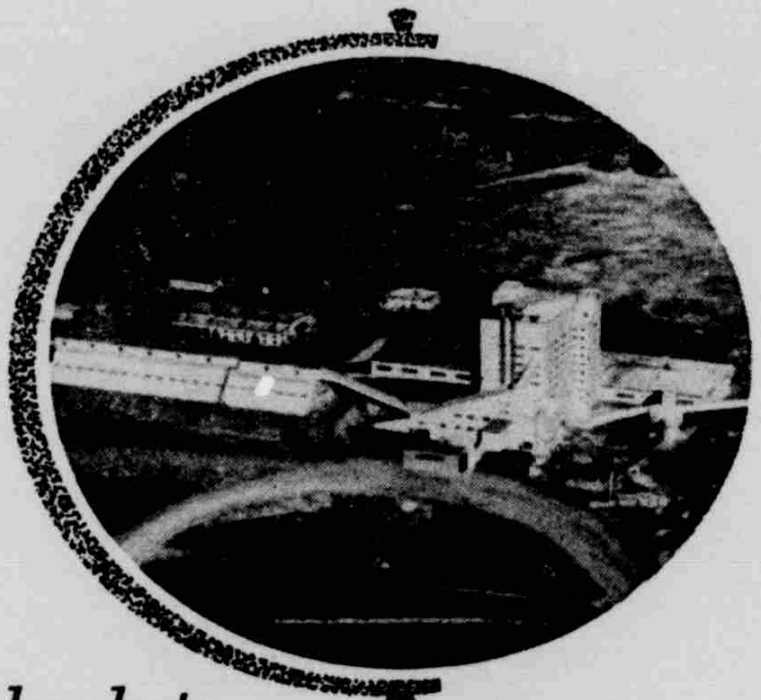
Rex Chainbelt Inc. and *Nordberg Manufacturing Company* shareholders voted to approve the merger of the two firms. Nordberg is operating as a Division of Rex.

Serpentix Conveyor Corporation, in an agreement with the *Ensco-Vibro Companies,* established a sales organization covering nine eastern States. Headquartered in Lyndhurst, New Jersey, Ensco specializes in the application, sale and servicing of equipment to handle and process bulk solids.

F. L. Smidth & Co. A/S, Copenhagen, Denmark, established its former Asbestos-Cement Department as an independent consulting department to accommodate growing business activity.

Turner & Newall Group. . . . J. W. Roberts Ltd. opened its first overseas manufacturing unit in Victoria, Australia.

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Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	Compagnie Commerciale de Minerais Et Matieres Premieres
Duisburg, Germany	Deutsche Asbest-Gesellschaft G.M.B.H.
Lubeck, Germany	Possehl Erzgesellschaft
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J .Deutsch
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	IHL-Hung Trading Co.
Mexico City, Mexico	Productos Quimicos Mardupol, S.A.
Haarlem, Netherlands	Chemische Productenhandel J. J. Van De Vrande
Auckland, C.I., New Zealand	Neill, Cropper & Company Ltd.
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	Intertrade
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.
Valencia, Spain	Guzman, S.A.
Caracas, Venezuela	Ing. N. Sekler Y Associados S.R.L.

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It will make Sprayed LIMPET Asbestos to meet increasing demand from Australian licensees. . . . *Turner & Newall Ltd.* agreed to acquire the *Flexitallic Company,* Camden, New Jersey, a firm engaged in the manufacture and sale of specialized industrial gaskets. . . . A rationalization was announced of T&N's building and construction materials operations in the United Kingdom. Two of the Group's operating companies—*Turners Asbestos Cement Co. Ltd.* and *J. W. Roberts Ltd.*—merged to form a new company called "TAC Construction Materials Ltd.". . . . *Turners Asbestos Cement (Nigeria) Ltd.* returned its asbestos-cement sheeting machine into partial production. The factory is equipped to manufacture building materials, pressure pipes for water supply systems and sewerage and drainage pipes. . . . *Turners Asbestos Cement (Kaduna) Ltd.* plans to install manufacturing equipment and put its plant into full commission. . . . *Ferodo Ltd.* opened a subsidiary sales company in West Germany, which will concentrate on the original equipment market for brake and clutch linings.

Unarco Industries, Inc., acquired *Leavitt Tube Company.* The two companies have been consolidated into a new Delaware corporation, also named "Unarco Industries, Inc."

Uniroyal, Inc., established the "Uniroyal Development Company" to coordinate technical and market research activities, to supervise the operation of present joint ventures and to explore new profit opportunities within the framework of the company's long-term growth plan.

ACTIVITY AT ASBESTOS PROPERTIES

AFRICA

Lonrho Ltd. is undertaking underground prospecting work on asbestos deposits near Emlembe, Swaziland. The project should be completed within the next 2-3 years.

Valley Asbestos (Pty.) Ltd. discovered an Anthophyllite asbestos deposit in the northern area of the Transvaal and has been drilling the property to determine whether or not it is economically feasible to develop a mine.

The Cape Asbestos Group installed the No. 8 incline shaft and is sinking an additional vertical shaft at its Blue asbestos field at Pomfret, in the northern part of Cape Province. The treatment plant has been extensively modified to

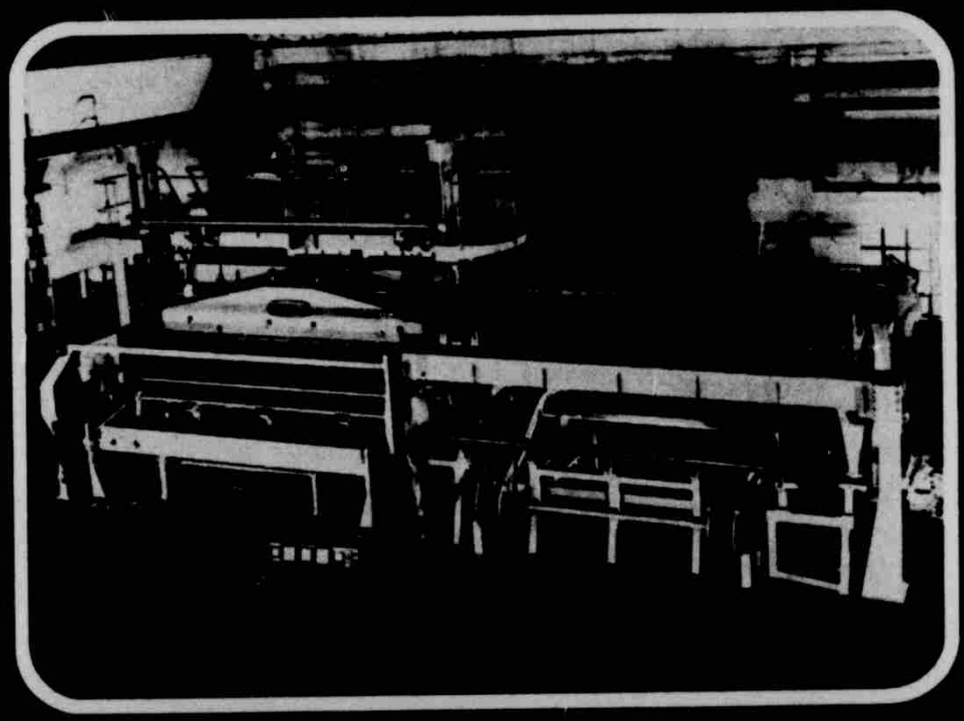
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AUSTRALIA

Allstate Explorations N.L., in an agreement with *Newmont Pty. Ltd.,* will explore an old asbestos lease in the Beaconsfield District of Tasmania. The lease covers 160 acres of serpentinized ultramafics from which Chrysotile asbestos was mined around the beginning of the century.

Pacific Asbestos Ltd. is constructing an $18 million plant at its asbestos property near Barraba, New South Wales. It is expected to be in production by the end of next year and it will have the capacity to annually produce 70,000 tons of Chrysotile fiber in Grades 4 through 7. According to a feasibility study made by Watts, Griffis and McOuat Ltd., the deposit is an extremely valuable orebody and substantial returns on investment can be expected. The Japanese trading company, Marubeni Iida, has agreed to purchase, over a period of 5½ years, 210,000 short tons of fiber.

BOLIVIA

Surveyer Nenninger & Chenevert Inc., of Montreal, Canada, completed a feasibility study for a pilot plant to produce asbestos fiber in Bolivia. The pilot plant will cost about $774,700 and will annually treat 1,500 metric tons of asbestos. If results prove favorable, a plant will be constructed with capacity to produce 10,000 tons of fiber per year.

BRAZIL

Sociedade Anonima Mineracao de Amianto, one of the major asbestos fiber producers in Brazil, transferred its development and production activities out of Bahia and into Cana Brava at Uruacu, Goias.

CANADA

Abitibi Asbestos Mining Co. Ltd. and its partner *Minbanco Corporation* equally own an asbestos project located on the Amos-Matagami Highway, north of Amos in northwestern Quebec. According to a feasibility study conducted by *Kilborn Engineering Ltd.* in cooperation with *Mr. Gordon H. Gibbs* and *Dr. W. N. Ingham,* open-pit ore reserves are calculated at 105 million tons with a content of 4% of high-quality, cement Grade fibers of Groups 4, 5 and 6. Serious negotia-

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Asbestos down on the farm.

There are a lot of contented cows and dairymen today because J-M Flexboard® asbestos-cement sheets are lining more and more dairy barns and milk houses.

These flexible boards are reinforced with asbestos fibers to increase strength and fire protection.

Asbestos also helps make building products immune to rot, rust and decay. So upkeep is low.

Back in the city, you'll find asbestos hard at work in durable, easy-to-erect Flexboard walls and ceilings in many modern apartment buildings.

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.

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tions have been opened with major mining interests with a view to bringing the property into production.

Asbestos Corporation Ltd. is sinking a $2.5 million, 1645-foot development shaft deep into its *Penhale* ore body, with a view to developing the deposit as an underground mine. . . . A $4.5 million major expansion of mining and milling facilities is being undertaken at the *King-Beaver Mine* to increase daily plant processing capability to 12,000 tons of ore. . . . The decision was made to proceed with the *Asbestos Hill* project at Puturiq, New Quebec, in northern Ungava. It should be completed by April 1972 and the crushing, drying and milling plant will be designed to operate seven months a year. Projected rate of production is 1.2 million tons of ore per year and the unfinished fiber produced by the plant will be shipped to a $15 million *asbestos finishing plant* in Nordenham, West Germany. The contract for design and construction management of the finishing plant was awarded to *Surveyer Nenniger & Chenevert.* It will grade, pack and distribute chiefly Group 4 (asbestos-cement Grade) fiber.

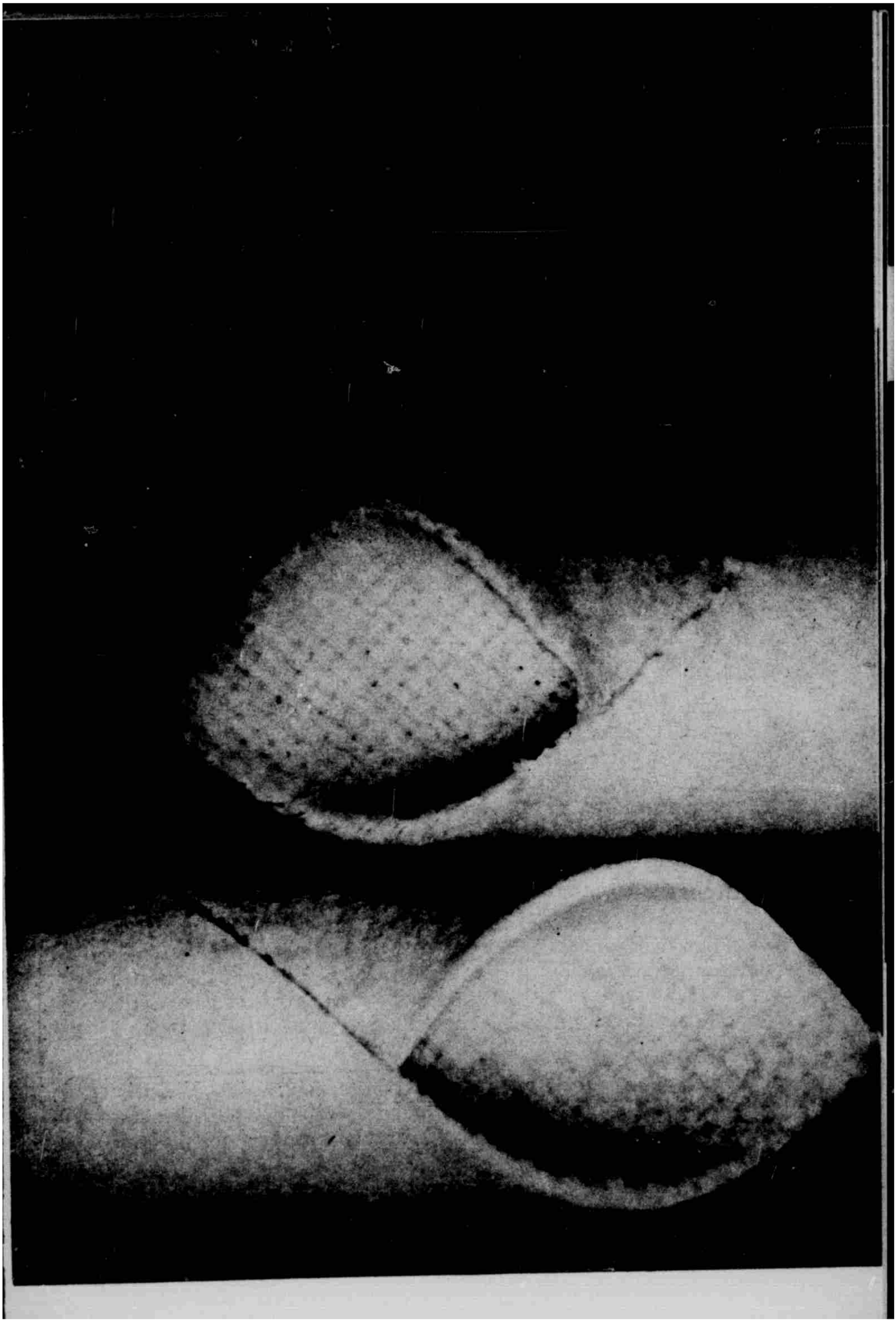
Ascopex Explorations Ltd. is a new mining exploration firm recently formed to explore and develop 14 asbestos and base metals claims near Val D'Or, Quebec. The tract lies adjacent to the property owned by Abitibi Asbestos and Minbanco.

Canadian Johns-Manville Co. Ltd. is implementing an ambitious new mining program at its *Jeffrey Mine* at Asbestos, Quebec. The accelerated development program is aimed at production of 600,000 tons of fiber per year and will involve an expenditure of $75 million over the next five years.

Cassiar Asbestos Corporation Ltd. is expanding mill capacity at its main *Cassiar* operation from 75,000 tons to 100,000 tons of fiber per year. The project will cost an estimated $4,300,000 and in addition to higher output the revamped plant will incorporate a number of changes that will improve general operating and maintenance conditions which should, in turn, result in some cost savings.

Golden Gate Explorations Ltd. received a report on the 1969 exploration program undertaken by *Peter H. Sevensma Consultants Ltd.* at its asbestos property at Haines Junction in the Yukon Territory, less than 160 miles from the deep-

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water port of Haines, Alaska. Diamond drilling indicated the existence of 3,000,000 tons of commercial Grade asbestos. Golden Gate is seeking the financial backing of a major company to conduct further drilling and it is hoped an incline shaft can be sunk into a known asbestos zone from which shaft-drifting and cross-cutting will be carried out.

Rio Tinto Canadian Exploration Ltd., the exploration subsidiary of Rio Algom Mines Ltd., signed an option agreement with *McAdam Mining Corporation Ltd.* for financing of McAdam's asbestos property located 20 miles east of Chibougamau in northwestern Quebec. On the basis of the work done by McAdam on the property, projected concentrating material totals about 156 million tons. This will have to be confirmed by fill in drilling.

Wolfe Asbestos and Magnesium Mine Ltd. is milling tailings which contain a good percentage of Group 7 fiber at its small asbestos mill, located on the former Dominion Asbestos Mine property at St. Adrien de Ham, Quebec. A secondary product is also being produced and sold to agricultural firms.

Stikine River to Clinton Creek—The currently expressed opinion is that the entire belt from the headwaters of the Stikine River (and possibly farther to the southeast) to the Clinton Creek [Cassiar Asbestos] deposit and beyond to recently-discovered occurrences in Alaska has a high asbestos endowment. This appraisal was presented in an article that appeared in the October issue of the CIM Bulletin entitled "Mineral Endowment of the Canadian Northwest—A Subjective Probability Assessment."

COLOMBIA

Nicolet Industries, Inc., received approval from the Republic of Colombia to develop an asbestos mine in the remote mountainous section of the Department of Antioquia, Colombia. The discovery of the asbestos-bearing property is a result of a long search made by Nicolet's development personnel.

GREECE

Cerro Corporation signed an agreement with *Hellenic Industrial Development Bank* and its affiliate, Hellenic Asbestos S.A., providing for further exploration of the Zidani Asbestos Mine near Kozani, Greece.

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MEXICO

Freemex, S.A. (wholly-owned subsidiary of *Freeport Sulphur Company*), and its Mexican partner, Industrias Penoles, S.A., are conducting laboratory work and testing bulk samples from an asbestos property in southern Mexico. Drilling in one of three locations has outlined an estimated 25,000,000 tons of rock, minable by open-pit methods, and encouraging results have been obtained from preliminary tests of this rock.

USSR

The *Urals Asbestos Combine* opened Plant No. 6 and will now produce an extra 320,000 tons of asbestos fiber. One unusual feature of the new facility is its capability for processing very low-grade ore. Up to 12 million tons of ore, with an asbestos content of only 1.77% will be processed annually.

ASBESTOS-BASED PRODUCTS

ARMSTRONG CORK

Accopac AD-8024, a flexible asbestos paper material with good die-cutting characteristics, was developed by the Industry Products Division of Armstrong Cork Company. Its uniformity and excellent fiber distribution are attributed to the fact that the asbestos fibers are beater-saturated with a latex binder.

ASAHI ASBESTOS & JUJO PAPER

Two new types of nonflammable asbestos paper were developed jointly by two Japanese firms—Asahi Asbestos Co. Ltd. and Jujo Paper Manufacturing Co. Ltd. *Aspaal "W"* is a wallpaper composed solely of asbestos fiber and an organic binder. It is marketed under the tradename "Lily." *Aspaal "M"* is composed of pulp, asbestos fiber and an organic binder and is suitable for various industrial applications.

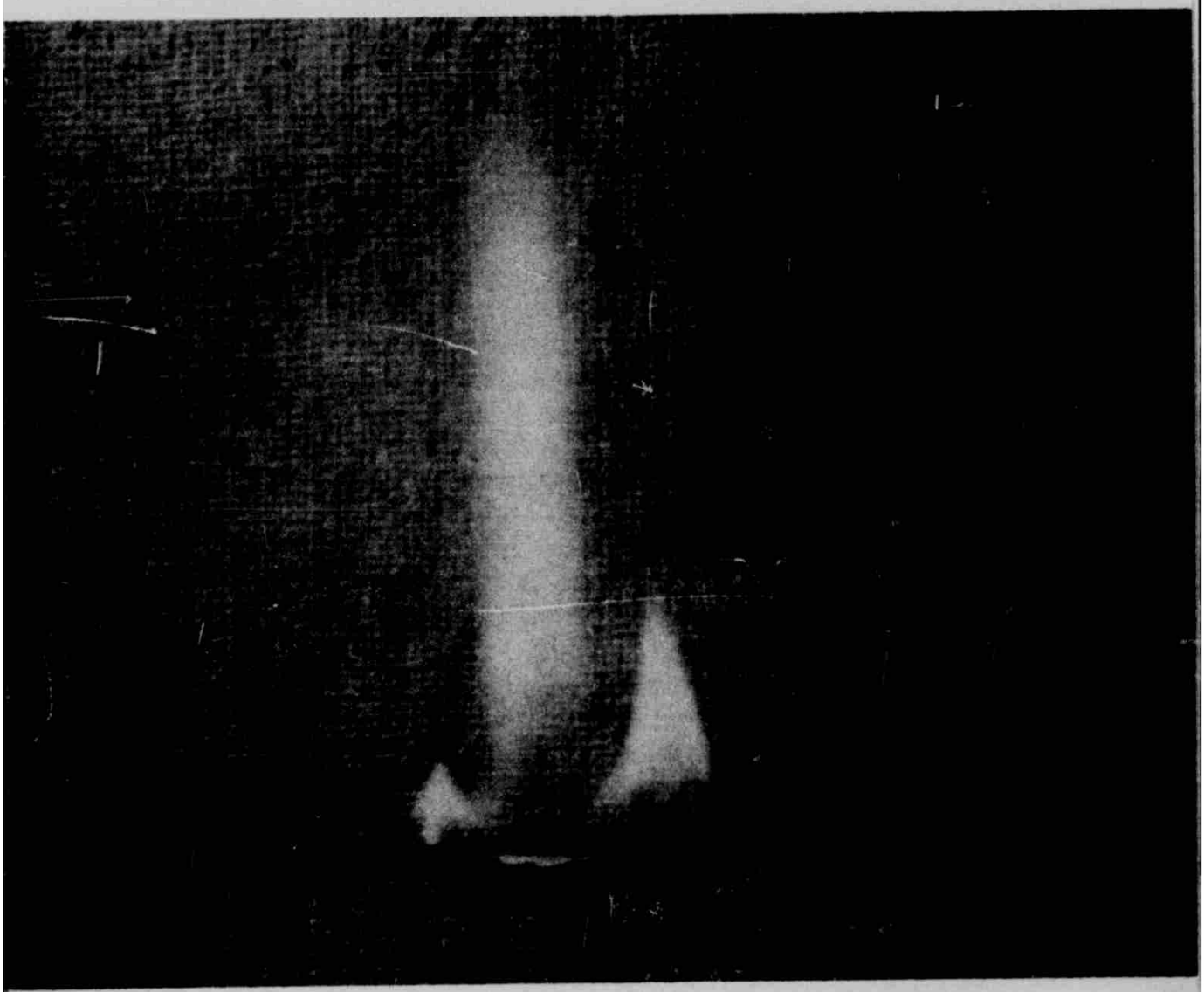
ETERNIT

A seminar on "Processes of Construction," sponsored by International Asbestos-Cement Review, was held at St. Gall, Switzerland. In one of the presentations made at the seminar, J. Carette, architect for S.A. Eternit, Belgium, described the unique *asbestos-cement materials* and methods of construction used in erecting a prototype building at Wilrijk.

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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.

JOHNS-MANVILLE

Metal-On, a factory assembled system consisting of an external aluminum jacket, a vapor barrier material and Thermobestos insulation, was applied by *Philadelphia Asbestos Corporation* as insulation on the SS Manhattan to prepare the ship for its voyage through the Northwest Passage. Metal-On is a product of Johns-Manville Corporation.

J-M appointed *Western MacArthur Company*, San Francisco, California, as a master stocking distributor of its *Permatone "S" Flexboard*, a combination of a factory-applied finish with an asbestos cement building sheet. Western MacArthur also handles other J-M building and industrial materials.

Model X-250 Expansion Joint was developed by J-M and is recommended for service in duct systems handling gases to 250°F at low pressures. The joint is composed of high-temperature, rubberized asbestos-fabric laminates.

The *U.S. Coast Guard* awarded a contract to J-M to develop a design concept for a lightweight *oil containment system* for use on the high seas. Using its experience with "Spillguard" as a basis, J-M will seek to design, according to Coast Guard requirements, a system that will contain oil in the presence of 5-foot waves and 20-mph winds in 2-knot currents. *Arthur D. Little Research Organization* and a team of fluid dynamic experts from *Charles River Association* will be working on the project with J-M.

Super Temp-Tite, also developed by J-M, is a new factory-fabricated, pre-insulated pipe system that consists of a steel core pipe to confine and convey the working medium, a Transite asbestos-cement casing pipe, Thermofoam to fill the space between core pipe and casing, and special couplings. It is suitable for conveying steam, hot water and certain other fluids and gases and is recommended for service to 400 psig at temperatures up to 450°F.

NATIONAL GYPSUM

Gold Bond Woodrock, which gained wide acceptance in the residential building market as a clapboard siding, has been introduced in panel form as an exterior substrate for commercial buildings. Manufactured by National Gypsum Company, it is a noncombustible material composed of Portland

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ASBESTOS SHORTS

HIGH-BULKING, EASILY DISPERSED FOR ROOF COATINGS

Because our ASBESTOS SHORTS are "clean", they disperse rapidly in asphalt and other materials . . . save you production time.

GRIT- AND WHISKER-FREE FOR SPRAYED UNDERCOATINGS

Careful quality control ensures that our ASBESTOS SHORTS are free of grit and other minute particles that clog spray equipment.

If you reinforce polyester molding compounds, try our 7T SHORTS. They disperse well and have low resin demand. For more information or for test samples of our fibres, write to: Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada.

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

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

CALIFORNIA, Los Angeles
E. B. Taylor Company

CANADA, Montreal
Federated Metals Canada, Ltd.

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

LAKE ASBESTOS

ASARCO

A subsidiary of American Smelting and Refining Company

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cement, inorganic asbestos fibers and specially-processed cellulose fibers.

NICOLET

Kolormate, a monolithic asbestos-cement sheet developed and manufactured by Nicolet Industries, Inc., was used for the fire-extinguisher chamber doors of the State highway tunnel through Big Walker Mountain, near Wytheville, Virginia. The doors were fabricated by *Brunswick Asbestos Company,* of Philadelphia.

Nicotex, Inc., subsidiary of Nicolet, is now producing *Nicolon,* an asbestos yarn made by a patented process in which the asbestos fiber is opened chemically and formed into a dust-free yarn by chemical and mechanical treatment.

H. K. PORTER

Portersite was introduced by the Thermoid Division of H. K. Porter Company, Inc. The primary markets for the lint-free knitted felt are in marine and stationary power plants as high-temperature insulations.

Aluminum-Coated Asbestos Cloth is a new formulation developed by Porter's Thermoid Division. The improved cloth is resistant to radiant heat up to 1000°F for approximately five minutes with no damage to the luster of the cloth.

RAYBESTOS-MANHATTAN

Novatex is the trade name of a new class of asbestos textile products being marketed by the Asbestos Textile Division of Raybestos-Manhattan, Inc. Totally inorganic, flexible and receptive to various aluminizing techniques and other finishes, the fabrics show tensile strengths higher than conventional asbestos fabrics. The Novatex line is the result of a technological breakthrough by which totally inorganic asbestos yarn is produced by a new wet process. The process from yarn to cloth is essentially dust-free.

Refset materials are a family of R/M compounds that meet various nonflammability criteria. Asbestos fibers are incorporated in both conformal and caulking compounds resulting in improved thermal and electrical insulation characteristics. One of the more recent applications of a Refset material was the use of "L-3203-6" as a protective coating on the flammable interior surfaces of the Mobile Quarantine Facility of the Apollo spacecraft. The material was developed by R/M

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Cheaper. Costs Less.

When it comes to buying respiratory protection it's not a question of health. It's only money. A cheap, strapped-on, lung-powered respirator will probably stop all the contaminants you're worried about. In fact, it stops so much it soon clogs up — if the gasping wearer doesn't rip it off first. The Rite Whitecap Helmet system uses an electrically powered centrifugal filter to spin off contaminants. No clog-up. Your filter replacement cost drops to almost nothing. More important, your lost man-hours drop too, because a worker won't "forget" to wear his Whitecap helmet. It's light. It's comfortable. It protects eyes, face and head as well as lungs. Write or phone for complete information on Whitecap Helmet systems.

RITE WHITECAP

PERSONAL ENVIRONMENT SYSTEMS, INC.
P.O. Box 800, Glendale, CA 91209
Telephone: (213) 245 1746

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utilizing "Fluorel" brand elastomer, a product of The 3M Company.

STANDCO

Standco Industries, Inc., Houston, Texas, expanded its line of *molded clutch facings* for use in heavy equipment and machinery. The facings are available with either a high or a low coefficient of friction.

TUFCON

Tufcon is a new roof surface material introduced by Tufcon Roof Insulation, Inc., Torrance, California. Tested to withstand temperatures to 175°F, the prime ingredient of the product is perlite, which is expanded and mixed with other materials such as asbestos to add strength and resist cracking.

TURNER BROTHERS ASBESTOS

TBA "T" Range is a radically-improved line of asbestos textiles from Turner Brothers Asbestos Co. Ltd. The new and unique manufacturing process provides a new concept in asbestos textiles, making them cleaner and easier to use than heretofore but still retaining the outstanding properties and technical efficiency of asbestos.

UNI-TUBES

Uniroof is a single-layer, roof-covering system that is based on a flexible synthetic rubber sheet backed with asbestos paper. Manufactured and marketed by Uni-Tubes Ltd., England, the system is based on Hypalon (chlorosulphonated polyethylene), a synthetic rubber compound manufactured by Du Pont Co. (U.K.) Ltd.

ASBESTOS IN BITUMINOUS CONCRETE

According to a report released by Pennsylvania's *Bureau of Materials, Testing and Research* on the installation and evaluation of bituminous surface courses incorporating asbestos fibers in the mix design, a sand-asphalt mixture with 1-2% asbestos fibers gives a performance superior to that of a standard, sand-asphalt mix. It shows less reflective cracking, slightly tighter surfaces, a tendency toward crack healing and less drying of asphalt.

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309 Chase Road, London N. 14

VENEZUELA
PROQUIM C.A.,
Apartado 5649, Caracas

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

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PRODUCT PROMOTION

Hume Industries (Malaya) Ltd. was one of 40 firms that participated in the Building Materials Exhibition, Kuala Lumpur, Malaysia, organized by the Australian Government Trade Commission. A miniature bridge constructed on concrete box culverts, deck units and beams, under a roof of cantilever asbestos-cement roofing sheets (all produced at the factories of Hume Malaya) formed the main entrance to the exhibition. The bridge was part of the Hume display which also included the company's range of asbestos-cement roofing sheets and ridges.

Cape Universal Building Products Ltd. displayed its products in an unconventional way at the International Building Exhibition, Olympia, England. Each main product of Cape Universal was fashioned into an abstract sculpture. Colored lights played upon each piece of sculpture and sound-sensitive switches caused the lights to change color when subjected to various noises.

Johns-Manville Corporation cosponsored the "Design '70" House, Jamestown, North Carolina, built as part of the National Lumber and Building Material Dealers Association's "Design '70" Program to demonstrate the findings of the Association's Research Council on homeowner needs and preferences in the coming decade. Among the many asbestos products supplied by J-M for use in the home were Stonehenge panels, Togany sidewalls, American Colonial roof shingles and Flexboard sheets.

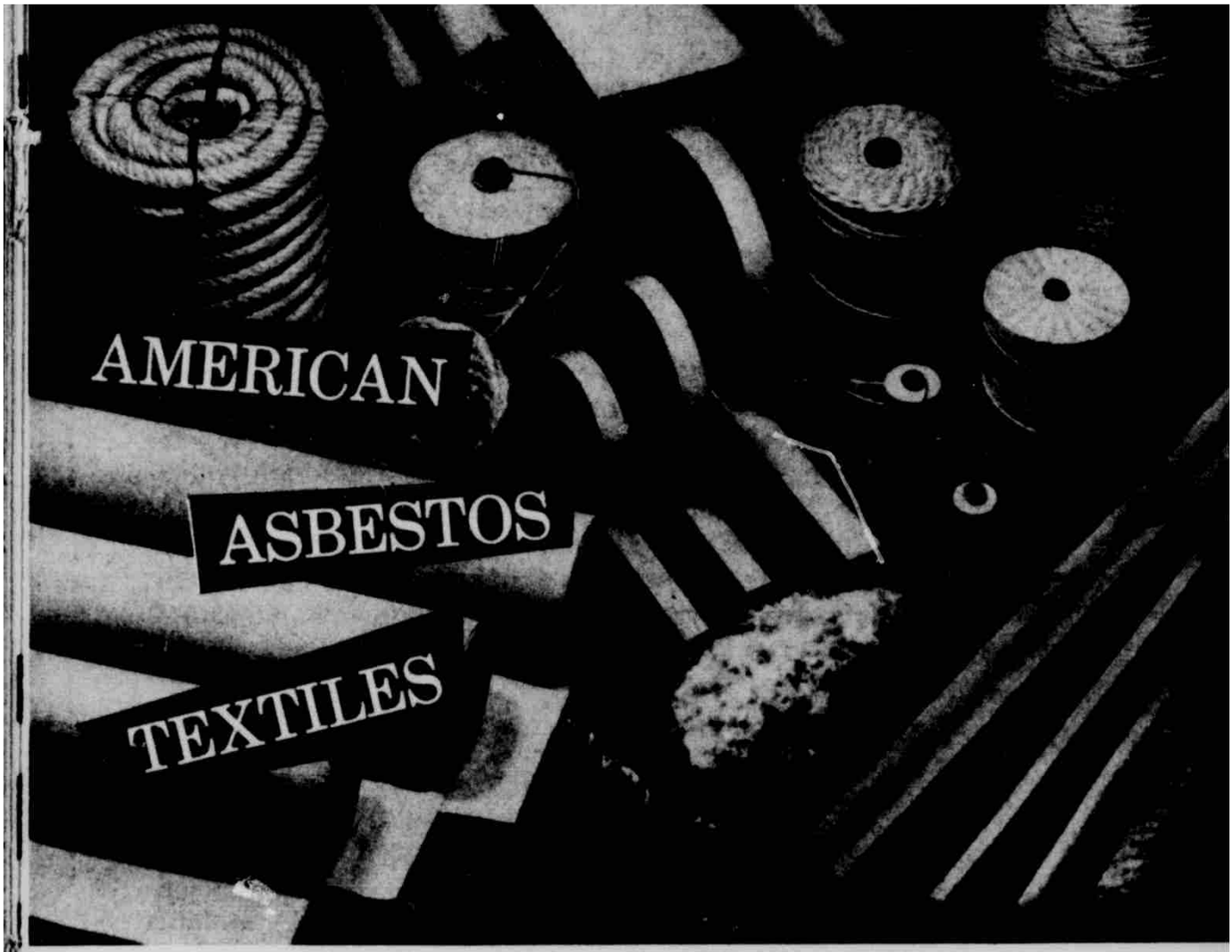
EQUIPMENT/PACKAGING/HANDLING/ETC.

The Bauer Bros. Co. is now including a high-density *Coors Alumina ceramic lining* in its Hurricane Pulverizer-Classifier.

Bauer is marketing the newly-improved *Bauer-McNett Fiber Classifier,* designed for wet classification of organic and inorganic fibers. The Bauer-McNett Wet Classification Test has been adopted by QAMA and ASTM as a standard method for determining the length distribution and fines content of the various Grades of milled asbestos fiber.

The Cape Asbestos Co. Ltd. is pressure packing both Amosite and Crocidolite asbestos fibers, thus solving the prob-

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...better because they're AMERICAN made

Our complete line of asbestos textiles are produced under strict quality control at every stage of manufacture, thereby assuring adherence to specifications and guaranteeing the dependable performance of every AMERICAN-made product.

Our research and engineering services are at your disposal. Simply telephone 215-275-4602 (TWX 510-660-0184); or write Box 228, Norristown, Pa. 19404.

AMERICAN ASBESTOS TEXTILE CORPORATION

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

lem created by the "resilient bulkiness" of the fibers. The standard package is an extremely strong, plastic-laminated hessian bag that is dust-free and water-proof. The bags will withstand rough handling, stack well and can be readily palletized.

Euclid, Inc., Cleveland, Ohio, added a sixth vehicle, the "R-75," to its line of *rear-dump haulers* and the company has under development a 210-ton-capacity, turbine-powered hauler designed primarily for open-pit mining.

Harnischfeger announced the new *AC static stepless Magnetorque drive,* an electrical drive system for slope and small mine hoists.

Noble-Aggregate Corporation was awarded a $400,000 contract by the Calaveras Cement Division of The Flintkote Company to supply and install a nearly half-mile-long *conveyor belt system* at the mining and cement-processing plant near San Andreas, California.

Prab Engineering Corporation is commercially producing a general-purpose *industrial robot* for the handling of repetitive functions such as loading or unloading production equipment.

Simplicity Engineering Company, a subsidiary of General Steel Industries, *changed its trademark.* It is emblematic of the efficient simplicity of design of the company's vibratory equipment.

COMPANY LITERATURE

Asahi Asbestos, Tokyo, issued a catalog on its line of "Asbestos Textiles" including non-metallic yarns, twisted rope, braided rope packings, cloth, compressed sheets, woven brake lining and semi-molded clutch facing.

Bauer describes, in Condensed Catalog 70, its systems and equipment for digestion, extraction, fiberizing, size reduction, fluid expression, impregnation, separation, classification and other special processing.

Cape Asbestos published "Cape Review 1969," the first issue of an annual review of the affairs of the company.

Certain-teed issued Brochure AP-19R-1/70 to list engineering classifications of its "Fluid-Tite Asbestos-Cement Non-Pressure Sewer Pipe."

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The Industrial Products Division of *GAF* offered Technical Bulletin 1069-A to describe its line of "GAF Asbestos Products." It gives descriptions, possible uses and specification data on commercial paper, rollboard, millboard and electrolytic paper.

The Hewitt-Robins Bulk Handling Equipment Division of *Litton Industries* published Catalog 3100-A entitled "Crushers Hewitt-Robins" to describe its line of jaw, impact, roll and hammermill crushers.

The Thermoid Division of *H. K. Porter* issued Bulletin TH-5116 to present a general guide as to applications, sizes and manufacture of five categories of "Thermoid Asbestos Textiles" i.e., tape; cloth; wick, rope and tubing; asbestos yarns, cord and thread; and asbestos and glass felts.

Simplicity Engineering published Catalog HS-81 to describe its line of horizontal vibrating screens.

Sprout-Waldron & Company, Inc., Muncy, Pennsylvania, issued "Mixing & Blending" Bulletin 3450 to describe its two horizontal, ribbon-type mixers for laboratory and light production use.

C. W. Stevens, Inc., Kennett Square, Pennsylvania, issued Bulletin 3001 to outline the principle of "Sonargage," a new sonar-type instrument that measures the level of bulk materials and presents a graphic oscilloscope picture of the material surface. Stevens also has information on the new "Sonar-Kontroller," a unit developed to monitor and proportionally control the level of liquids or slurries.

Willson Products issued two booklets on its respiratory protection. Form W6980 covers safety spectacles and goggles, face shields, welding helmets, ear muffs and safety hats and caps. Form W6901 discusses the 800-series of full face-piece basic respirator assemblies.

ASBESTOS STORY RING

The 13th Casting of the Asbestos Story Ring was presented to *W. S. (Bill) Cowell* on December 3rd of last year. Mr. Cowell has been associated with the asbestos products business for more than 42 years. He joined the Canadian Raybestos Company in 1927 and is presently Chairman of Albion Asbestos Packings Ltd.

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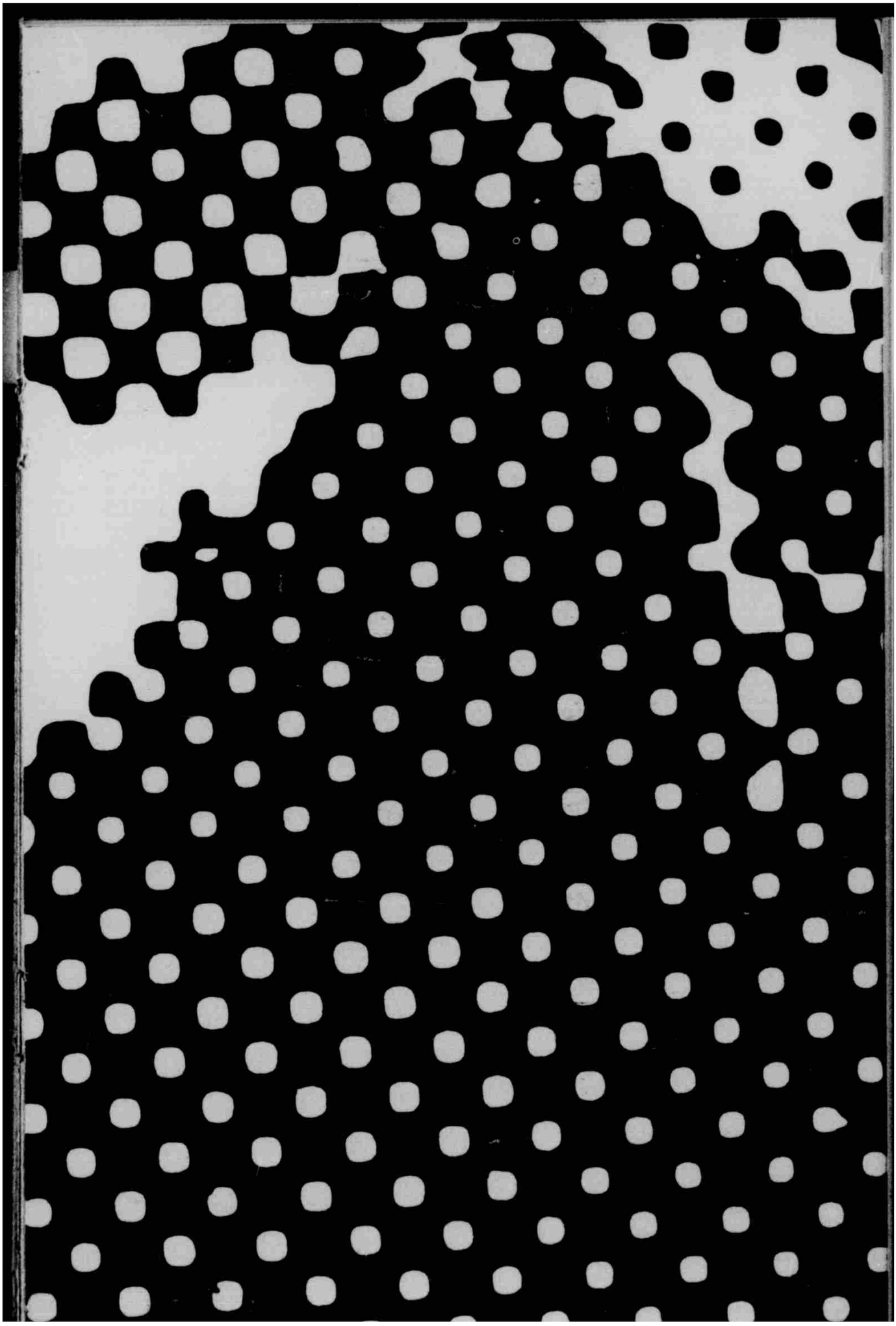
Amosite gives water a structure

The wet bulking properties of Amosite are most effective in dispersing and suspending finely divided solids in aqueous slurries – a feature of particular importance in the manufacture of calcium silicate products. Comprehensive technical information and advisory service available.

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200 South Michigan Ave, Chicago,
Illinois 60604, USA Telephone: (312) 922-7435
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ANNIVERSARIES

The Willson Products Division of ESB Incorporated received honors from the State of Pennsylvania and the City of Reading in observance of its 100th Anniversary.

Chr. Wandel KG, Reutlingen, Western Germany, on the occasion of its 100th Anniversary in December of 1969, dedicated to its business friends and associates a bibliophilic contribution to the history of paper.

Humes Ltd. celebrated its 50th Anniversary this year. The company was incorporated in Victoria, Australia, on July 26, 1920, under the name of "Hume Pipe Co. (Australia) Ltd. The name was changed to Humes Ltd. in 1950.

RETIREMENTS

R. A. Barber, Managing Director of BBA Group Ltd., retired December 31, 1969. He joined British Belting & Asbestos Ltd. in 1926, was elected to the Board of Directors in 1956 and was named Deputy Managing Director in 1960.

James J. Durkin, Purchasing Agent in the Piping and Plastics Division of Certain-teed Products Corporation, retired April 30, 1970. He began his career in 1920 as a messenger boy for Keasbey & Mattison Company.

G. Ellwood Houghton retired November 1, 1970, as Product Engineer for Garlock Inc. Mr. Houghton had been associated with the asbestos textile industry for 43 years, having started his career in 1927 with Johns-Manville Corporation.

William M. Proudfit retired as President of B&B Engineering & Supply Co., Inc., a subsidiary of AMF Incorporated. He had been with the company for 28 years.

DEATHS

With the utmost regret, the following deaths were recorded in ASBESTOS during 1970.

Robert E. Cryor—April 21, 1970; President of North American Asbestos Corporation, a member of the Cape Asbestos Group.

John J. Dempsey—December 26, 1969; Founder and Chairman of the Board of Armor Products, Inc.

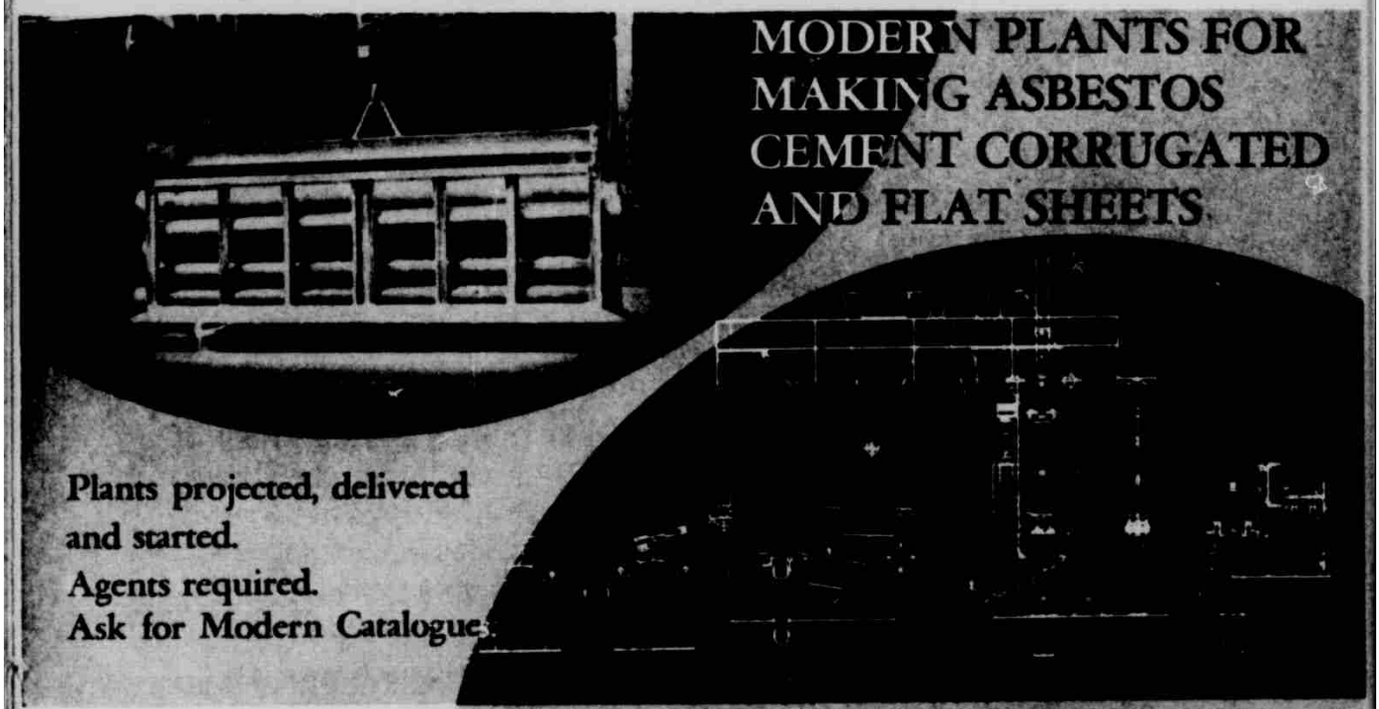
Carl Frey—May 15, 1970; Vice President-Sales of The Anchor Packing Company.

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AUTOMATIC PLANTS FOR MAKING HIGH PRESSURE ASBESTOS CEMENT PIPES

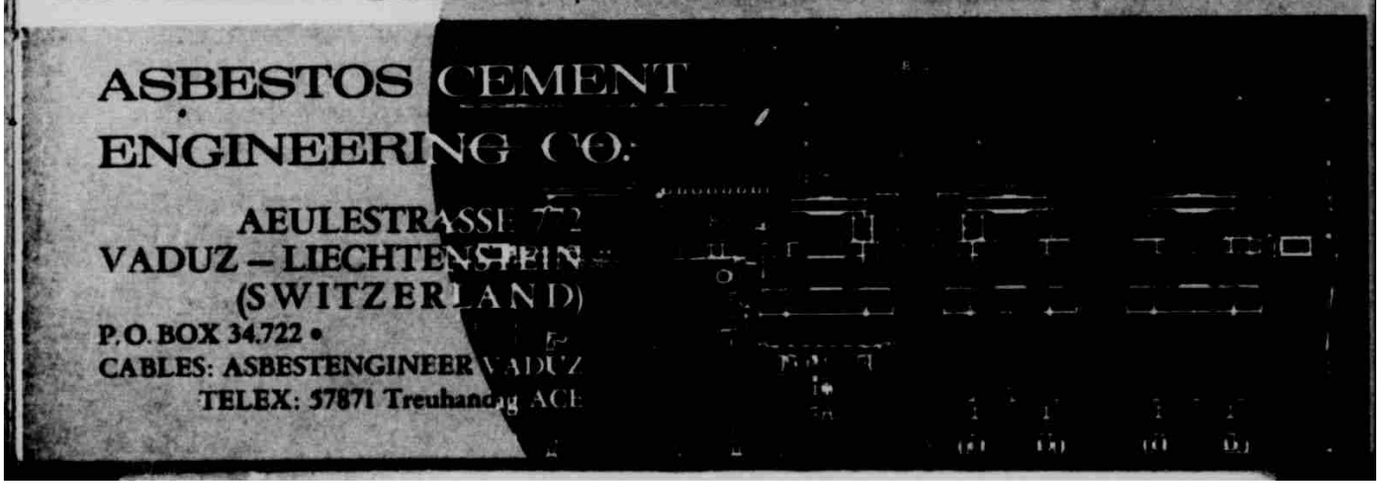
ASBESTOS CEMENT ENGINEERING CO.



MODERN PLANTS FOR MAKING ASBESTOS CEMENT CORRUGATED AND FLAT SHEETS

Plants projected, delivered and started.
Agents required.
Ask for Modern Catalogues

AUTOMATIC CORRUGATING AND STAPLING MACHINES



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Kenneth Bourne Hume—June 25, 1970; Director of Humes Ltd. and the third eldest son of the Founder of the company.

George Kanzler, Sr.—March 20, 1970; part Founder and former President of Smith & Kanzler Company (now a division of Philip Carey Company.)

Thomas A. Marshall, Jr.—April 9, 1970; Managing Director of the American Society for Testing and Materials.

John C. McKendry—September 4, 1970; Founder and President of Niagara Asbestos Company.

George M. Ryder—May 24, 1970; Executive Vice President and Treasurer of Standard Asbestos Manufacturing and Insulating Company.

J. Stuart Smart, Jr.—December 7, 1969; Vice President of Research and Market Development for American Smelting and Refining Company.

William J. Wheatley, Jr.—June 20, 1970; Vice President of Philadelphia Asbestos Corporation.

EXCHANGE VISITS

Carey-Canadian Mines Ltd., in cooperation with Canada's *Department of Industry, Trade and Commerce*, conducted a two-week course in quality control. *Five overseas distributors* of asbestos and asbestos products studied the latest Chrysotile fiber production methods, quality control and shipping and mining techniques.

A French building research team toured the facilities of the *National Bureau of Standards*, thus commencing a two-week visit in the United States as part of the U.S./French Cooperative Program.

FILMS

Man in Control illustrates the correct operation of machines, how to avoid hazards and how heavy equipment becomes more than a pile of expensive metal when someone takes control. (American Gas Association, New York City)

Dry Materials Handling pictures the Vibra Screw Bin Activator, the new Vibra-Blender and the company's line of vibrating feeders. (Vibra Screw Incorporated, Totowa, New Jersey)

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Gold Bond uses the best quality control devices known to man: people.

Sure we automated our milling equipment. Five floors of it.

But we want to be certain the particular grade of asbestos you need meets your requirements for uniformity.

So people monitor the automated mills on closed-circuit TV.

And people test each batch.

Our technicians make wet screen analyses to evaluate length and distribution of fibre...viscosity tests on absorptive characteristics...measure grit content...whatever it takes to be sure the asbestos meets your exact specifications. Batch after batch.

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

Gold Bond
ASBESTOS FIBRES

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TRADE & STANDARDS ORGANIZATIONS

Through the pages of ASBESTOS you have been kept abreast ot the activities of many trade and standards associations when such activities were related to the interests of the Asbestos Industry. A few of the publications issued by such associations are as follows.

American Society for Testing and Materials—Interfaces in Composites ($16.50), Composite Materials-Testing and Design ($31.00), Method of Testing Asbestos Tubular Sleeving ($1.00), Method for Bauer-McNett Classification of Asbestos Fiber ($1.00), and Method for Sampling Asbestos Fiber for Testing ($1.00).

Canadian Roofing Contractors Association—Technical Bulletins on "Good Roofing" concerning Water Vapour, Roof Maintenance, Insulation and Conduit on Roof Decks.

National Roofing Contractors Association—NRCA Roofing Manual ($12.00)

Packaging Machinery Manufacturers Institute—PMMI Packaging Machinery Directory ($1.00).

Quebec Asbestos Mining Association—Asbestos in the Sixties/Ten Years of Growth and Progress.

CANADIAN GOVERNMENT LITERATURE

Province of British Columbia—Industry Study on "The Asbestos-Cement Products Industry."

Quebec Bureau of Statistics—Directory of Mining Establishments.

Dominion Bureau of Statistics—General Review of the Mineral Industries (75c), Products Shipped by Canadian Manufacturers (75c), Asbestos Products Manufacturers (50c), Canada's Mineral Production (25c), Asbestos Mines (50c).

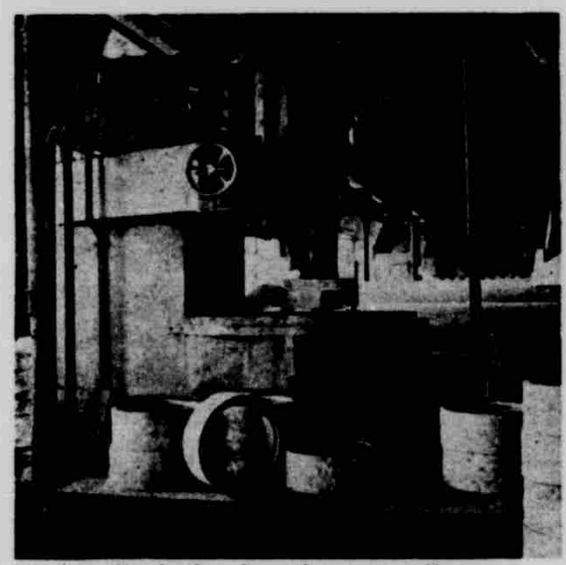
U.S. GOVERNMENT PUBLICATIONS

U.S. Bureau of the Census—Abrasive, Asbestos & Miscellaneous Non-Metallic Mineral Products, including statistics on Asbestos Products—SIC Code 3292 and on Gaskets and Insulations—SIC Code 3293 (45c); The Position of United States in World Commodity Exports (50c); General Statistics for Industry Groups and Industries (25c).

U.S. Bureau of Mines—Safety in Mineral Industries, Asbestos in 1969, a variety of Preprints from the 1968 Minerals

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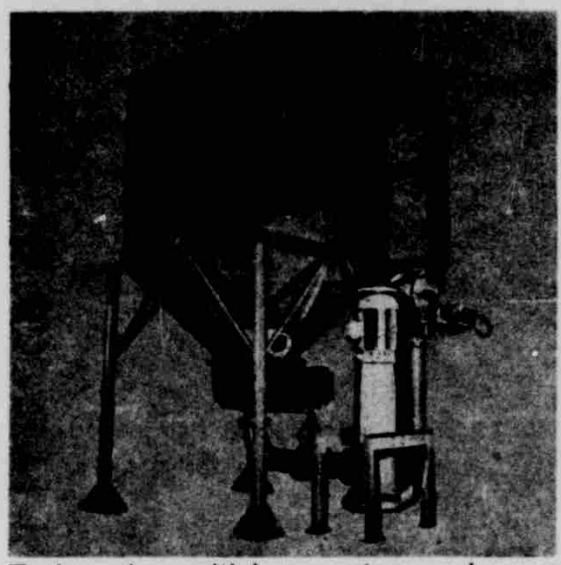
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Yearbook, and U.S. imports and exports of asbestos fiber and asbestos products, monthly and an annual cumulation.

(Statistics on asbestos production, exports and imports from Australia, Canada, Cyprus, Italy, and South Africa, on a monthly or quarterly and yearly basis, were also tabulated in ASBESTOS.)

OTHER LITERATURE

Statistical Summary of the Mineral Industry, 1963-1968—Her Majesty's Stationery Office, London, England; £1 7s 6d.

Mineral Exploration, 1968—Commonwealth Bureau of Census and Statistics, Canberra, Australia; Statistical Bulletin 4.

1969/70 Insulation Handbook—Lomax Erskine Publications Ltd., London, England; 15 shillings.

1970 Survey of Mines—The Financial Post, Toronto, Canada; $8.00.

1970/71 Canadian Mines Handbook—The Northern Miner Press Ltd., Toronto, Canada; $6.00.

1970 Mining Annual Review—The Mining Journal Ltd., London, England; $7.25.

1971 Construction Outlook—F. W. Dodge Division of McGraw-Hill Information Systems Company, New York City.

Reinforced Plastics—a Study by Predicasts, Inc., Cleveland, Ohio; $200.00.

Computerized Shipments Reports on the Asbestos Products Industry ($25.00), on Gaskets and Insulations ($25.00) and on Building Paper and Board Mills ($20.00)—Economic Information Systems, Inc., New York City.

Glossary of Commonly Used Computer Terms—General Automation, Inc., Orange, California.

1970 Buvoha Trade Letter—Bureau Voor Handelsinlichtingen (The Commercial Intelligence Office), Amsterdam, Holland.

1969 Mineral Exploration, Mining and Processing Patents—available from the author, Oliver S. North, or through ASBESTOS Magazine ($25.00).

The Asbestos Factbook—a complete and up-to-date reference on the subject of asbestos; available at 75c per copy from ASBESTOS Magazine.

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OTHER IMPORTANT ITEMS

Listed below are other announcements printed in ASBESTOS during the year that cannot be categorized under any specific headings but that are of equal importance and interest.

Action Housing for Greater Cincinnati received a $10,000 donation from the *Glen Alden Foundation* to further the development of low-cost housing in Greater Cincinnati.

Richard Klinger Ltd., Sidcup, Kent, England, introduced a new *ball valve* called "Ballostar," with special features such as patented seals, 3-piece body and special spindle and stuffing box design.

Metate Asbestos Corporation, Globe, Arizona, was visited by Michael Walter, Sales Manager for *Tropag,* Hamburg, Germany. Metate sells asbestos fiber to the German firm and Tropag resells it in the European Common Market.

The *National Safety Council* recognized the asbestos-cement pipe plant of *Certain-teed Products Corporation,* located at Hillsboro, Texas. The plant completed the entire year 1969 with no lost-time injury to any of its employees.

MISCELLANEOUS

Space in this issue does not permit our mentioning, even in catalog format, other features that regularly appeared in ASBESTOS throughout the year that we hope you found to be informative and constructive. For instance, 37 *U.S. Reports* were listed as available from the Clearinghouse (now the National Technical Information Service). . . . *Remember When?* recalled to mind the pioneer days of the Asbestos Industry. . . . *Personnel News* and *Birthday Greetings* kept you current on the present business connections of many of your associates. . . . *Greetings to the Asbestos Industry* and *Asbestos Stock Quotations* as well as quarterly dividends and *Annual Reports* kept you alert to the activities, projections and financial picture of many companies in the Industry. . . . The monthly "General Business" chapter of the *Market Conditions* section of the magazine advised you of the general economic situation and on a quarterly basis we reported the condition of the markets for asbestos fiber and various asbestos manufactured goods. . . . *Licensing Opportunities* informed you of investment possibilities. . . . *Construction News*

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NEWS

FOR
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MANUFACTURERS

SCAPA sets the standards

by which other felts are judged

The SCAPA range of A.C. felts
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* SERVICE

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



SCAPA TEXTILES LTD.

and *Automobile Sales* in the United States and in Canada were published each month as was the range of *Asbestos Prices* of fiber from Arizona, British Columbia, Quebec and Vermont. . . . You were also kept attuned to a variety of *Conferences & Symposiums* that we felt would be of interest to you.

The *Topical Index* which appears near the back of this issue lists the feature articles that were printed in ASBESTOS in 1970 including the first four chapters of "The History of the Asbestos Textile Industry in the United States," by John A. Bettes, Jr. This series will continue in ASBESTOS during 1971.

In Summation . . .

It has been our pleasure to serve the Asbestos Industry and keep it informed and we earnestly hope ASBESTOS has helped to maintain—on an international level—a cohesive bond between all those engaged in the Industry.

Have the activities of your company frequently been mentioned in ASBESTOS? Perhaps the name of your firm did not appear at all! Why not pay a visit to your Public Relations Director to be sure ASBESTOS is on your company's distribution list to receive *all* press releases, as issued. If your organization is in any way connected with or active in the Asbestos Industry, its activities should be reported in ASBESTOS and thus be recorded as a part of the history of the Asbestos Industry.

We hope you have enjoyed perusing this Review of 1970 and if you have need of further information on any item contained therein, please feel free to contact us.

Our sincere "thank you" to all in the Industry who have given constant support to our endeavors—as advertisers, as subscribers and as contributors of information and articles—and we hope our efforts merit your continued interest and support.

Season's Greetings - - And A Happy, Healthy and Prosperous New Year!

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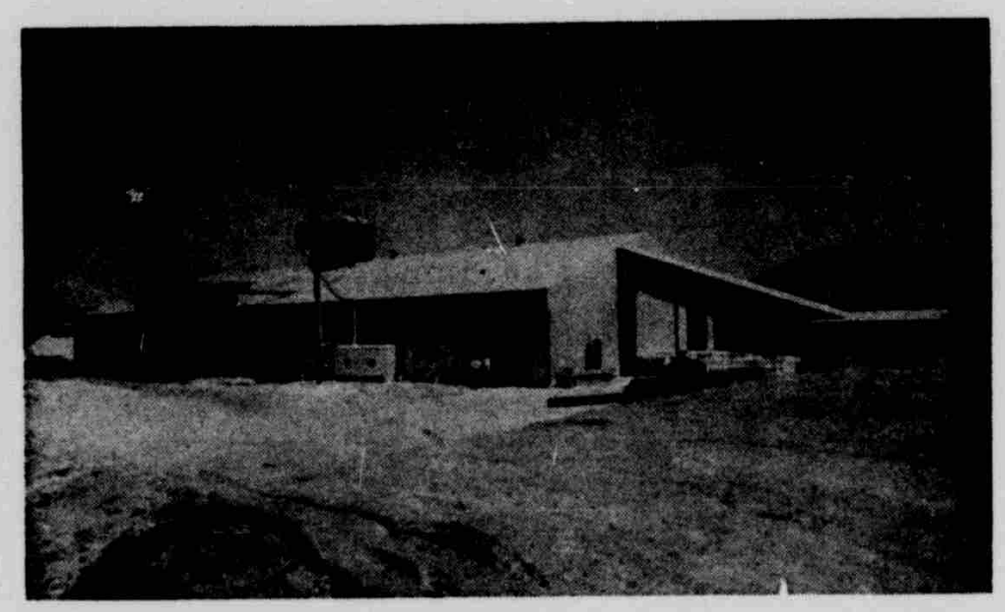
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MINES AND MILL IN GILA COUNTY

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MARKET CONDITIONS

General Business.

Best news in November was the settlement of the protracted General Motors strike. While resumption of full production will take a month or more, increased activity on the part of many G.M. suppliers may be expected almost at once. Possibly the most noticeable effect of the settlement will be a change for the better in the psychology of businessmen in general. While recognized indicators have pictured a sluggish overall economy, they have been affected materially by the strike and should show a good gain, statistically, over the next few months. Further improvements should continue into next year as G.M. and other auto producers work to make up the production lost during the strike.

On the other side of the coin, despite some statements to the contrary, the size of the package won by labor is definitely inflationary and it can be assumed that settlements with Ford and Chrysler will be comparably large, leading to more headaches for the Administration in its anti-inflation efforts.

The downtrend in interest rates continues and this bodes well for the much needed recovery in the housing industry. All signs now point to an improvement in the general economy over the coming months although nothing of "boom" proportions seems to be indicated.

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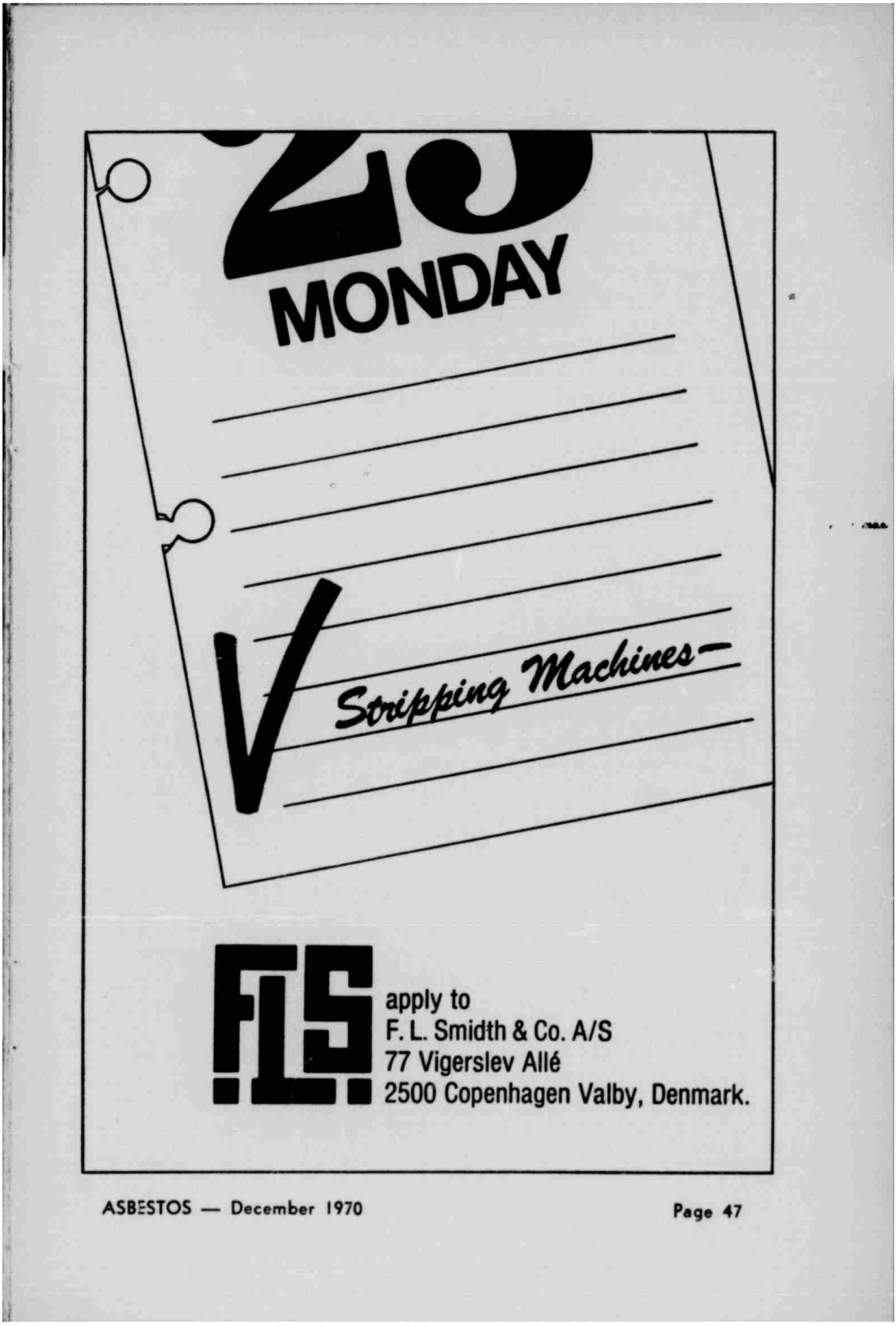
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CONSTRUCTION NEWS

From: McGraw-Hill Information Systems Company

October 1970 showed little change in the currently sluggish rate of contracting for new construction projects. Contracts for future construction totaled $5,453,270,000, 12% below October 1969. According to G. A. Christie, Dodge Vice President and Chief Economist, those looking for signs of economic recovery in construction contract statistics will be disappointed to learn that October's weakness was again concentrated in the categories associated with business capital spending—factories, utilities, offices and stores. Part of the gap is being filled by a rising volume of housing but the gains thus far haven't been sufficient to forestall a decline in total construction.

Nonresidential building contracts were valued at $1,862,-550,000, 25% below last October. All major categories showed declines—industrial/commercial construction off 33% and institutional building down 17%.

Residential building contracts, at $2,301,567,000, were up 2% on a year-to-year basis. Most of the housing improvement was in single-family units. Nonhousekeeping residential structures also gained.

Nonbuilding construction contract value totaled $1,289,-153,000, 10% below the comparable 1969 amount. One medium-sized ($40 million) electric utility project was started in October, highway contracts were up sharply and the amount of sewer and water projects continued on the increase.

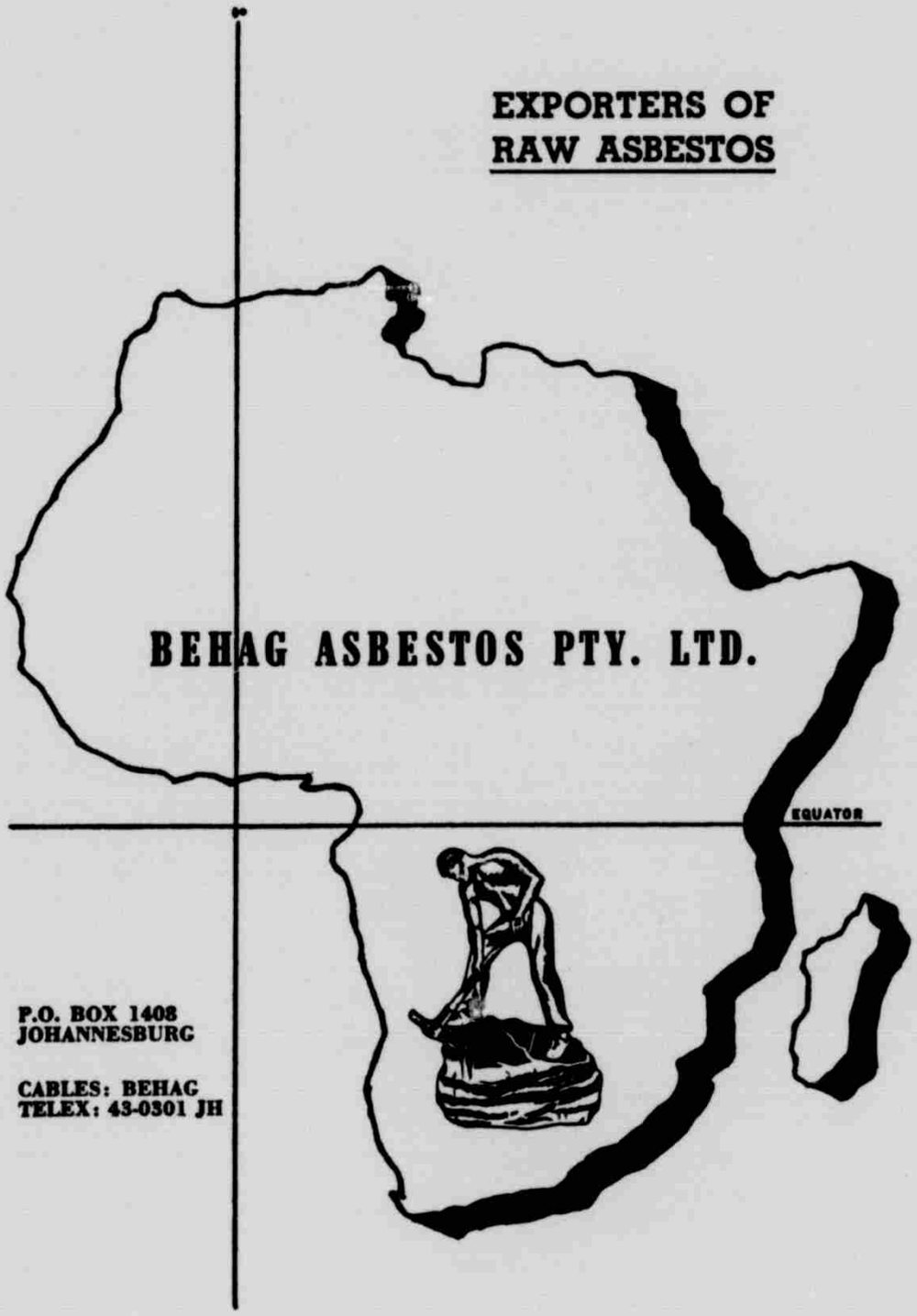
MOTOR VEHICLE FACTORY SALES

SEPTEMBER 1970 motor vehicle factory sales from plants in the *United States* totaled 632,005 (passenger cars—493,643; trucks and buses—138,362). The cumulative total for the *First Nine Months of 1970* was 6,546,761 compared with 7,450,326 for the same period last year.

Motor vehicle factory sales from plants in *Canada* totaled 92,446 for *SEPTEMBER 1970* compared to 131,327 in September 1969. The cumulative total for the *First Nine Months of 1970* was 932,361 against 967,130 for the like period in 1969.

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THIS & THAT

DIFFUSION INFORMATION CENTER, Cleveland, Ohio, advises it has been very successful with its reference service, *Diffusion Data,* since its introduction three years ago. Diffusion Data is published quarterly and summarizes all new reference data on diffusional transport in inorganic solids (solid at NTP) and their melts. The information is presented in seven sections: transport in (1) solid metals and alloys, (2) liquid metals and alloys, (3) intermetallic compounds, (4) simple and complex oxides, their mixtures and solutions, (5) halides, (6) nonmetallic elements and all other inorganic solids and their melts not covered in the foregoing sections, and (7) review of old and complete coverage of all new experimental techniques or variations of existing techniques relevant to the determination of transport data.

The cost of a subscription is $38.00 per year and subscriptions may be ordered direct from the Center or through the magazine ASBESTOS. Back issues, at the same subscription rate as stated above, are also available.

MILLIPORE CORPORATION, Bedford, Massachusetts, has published an interesting brochure titled "The Scope of Millipore Technology." The booklet contains a detailed explanation of the critical, but poorly understood, differences between "depth" and "screen" filtration and explains why a filter which is 80% empty space forms such an absolute barrier to the smallest microbe.

Millipore filters are thin plastic membranes with millions of pores per square centimeter of filter surface. All the pores in any one filter are precisely the same size.

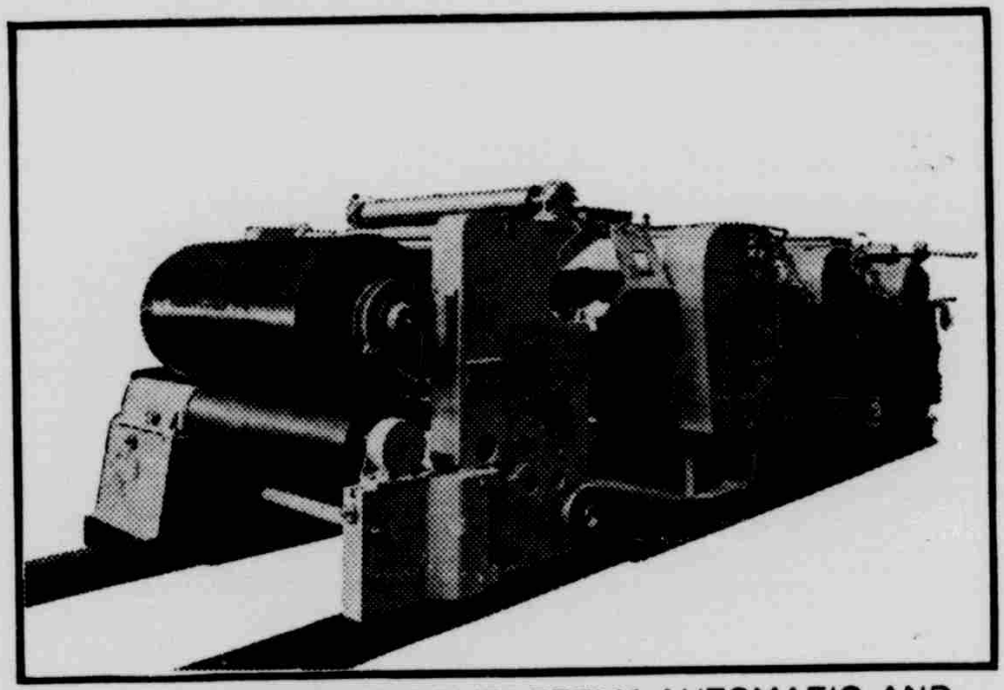
According to the data in the brochure, the scope of Millipore technology continues to expand, especially in the rapidly-growing field of semipermeable membrane separations, in products and applications for hospitals and clinical laboratories, in high-purity water systems and in apparatus and techniques for the control of air and water pollution (including the monitoring of atmospheres for dust particle content at mines and in industrial areas and isolating particles from air for analysis of pollution).

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ASP/HAC/19

asbestos cement *plants*





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IMPORTS - EXPORTS

Imports Into U.S.A.

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

Short Tons

Unmanufactured Asbestos:	JULY 1970	AUGUST 1970
Amosite, South Africa	740	971
Crocidolite (Blue), South Africa	230	455
Chrysotile, Crude, South Africa	60	150
Chrysotile, Spinning Fibers, Canada	3,057	627
South Africa	..	80
United Kingdom	..	211
Chrysotile, Other, Canada	41,882	47,369
Other Crudes & Fibers, Canada	178	110
Finland	501	209
Italy	1	..
Portugal	2	38
South Africa	450	60
	47,101	50,280

July unmanufactured asbestos imports were valued at $5,399,481.
August unmanufactured asbestos imports were valued at $5,967,032.

Manufactured Asbestos Goods:			JULY 1970
Asbestos Yarn, Slivers, etc.	Lb	314,215	$383,450
A-C Pipes, Tubes & Fittings	Lb	4,175,072	213,375
Asbestos-Cement Articles, Other	Lb	1,912,033	249,268
Asbestos Articles, Other		..	124,761
			$970,854

			AUGUST 1970
Asbestos Yarn, Slivers, etc.	Lb	251,841	$181,337
A-C Pipes, Tubes & Fittings	Lb	8,436,980	374,605
Asbestos-Cement Articles, Other	Lb	1,725,874	246,775
Asbestos Articles, Other		..	134,610
			$937,327

Next Issue . . . Greetings to the Asbestos Industry

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Exports From U.S.A.

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

Unmanufactured Asbestos:		AUGUST 1970	
Crude & Spinning Fibers	s. tons	216	$ 56,858
Non-Spinning Fibers	s. tons	1,308	215,834
Waste & Refuse	s. tons	1,953	196,073
		3,477	$ 468,765
Manufactured Asbestos Goods:			
A-C Shingles & Clapboard	Lb	1,351,494	$ 132,879
Other Asbestos-Cement Articles	Lb	450,791	129,584
Asbestos Gaskets	Lb	29,991	42,863
Asbestos Packing	Lb	369,101	484,563
Asbestos Heat or Sound Insulation		..	183,216
Asbestos Textiles & Yarns	Lb	109,578	136,570
Asbestos Protective Clothing		..	15,982
Mfrs. Other than Friction Materials		..	168,370
Clutch Facings & Linings for Auto. Use	No	77,753	111,006
Clutch Facings & Linings, Other	No	24,408	10,444
Brake Linings for Automotive Use	Lb	280,133	189,702
Asbestos Brake Linings, Other	Lb	199,573	152,409
			$1,757,588

Exports From Canada

(Published by Dominion Bureau of Statistics)

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
		AUGUST 1970		
Western Europe	1	853	22,341	11,806
Eastern Europe	..	37	1,977	560
Middle East	..	50	1,236	230
Africa	..	..	923	220
Asia	2	735	8,567	13,199
Oceania	..	..	2,128	608
So. & Cen. America & Antilles	..	72	4,918	1,480
United States	..	910	21,875	32,367
	3	2,657	63,965	60,470

The total amount of unmanufactured asbestos exported in *August 1970* was 127,095 short tons, valued at $18,351,000.

Manufactured Asbestos Goods:	
Asbestos Brake Lining & Facings	$ 48,000
Asbestos-Cement Building Materials	135,000
Asbestos Basic Products, Other	136,000
	$319,000

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BIRTHDAY GREETINGS TO . . .

Walter D. Baldwin, Vice President-Administration, Uniroyal, Inc., New York City, January 16.
P. C. McCarroll, Superintendent, Durasbestos Works, Wunderlich Ltd., Rosehill, N.S.W., Australia, January 16.
John K. Whittaker, Vice President, Asbestos Products Division, Nicolet Industries, Inc., Ambler, Pennsylvania, January 18.
Leif Egeland, Chairman, Cape Asbestos Insulations (Pty) Ltd., Benoni South, Transvaal, South Africa, January 19.
William E. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, January 21.
K. W. Sulser, General Manager, Asbestos Group, Thermoid Division, H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, January 22.
J. Zaha, Works Manager, St. Louis Works, Thermoid Division, H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, January 23.
John A. Brown, Jr., Product Manager for Asbestos Textiles, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, January 24.
Eric G. Scott, Finance Director, Wunderlich Ltd., Sydney, N.S.W., Australia, January 25.
H. G. (Mike) Donovan, Sales Manager (U.S.), Asbestos Fibre Division, Johns-Manville Corporation, Manville, N.J., January 27.
Herbert S. Hirshfeld, Manager, Standard Asbestos Co., New York City, January 27.
J. G. Mackeurtan, Chairman & Managing Director, Cape Asbestos South Africa (Pty) Ltd., Johannesburg, South Africa, January 29.
Nelson Bain, President, Asbestos Erectors of Canada Ltd., Montreal, Quebec, Canada, February 1.
A. R. Morgan, Jr., Vice President of Operations, Panacon Corporation, Cincinnati, Ohio, February 1.
William G. Neel, Export Manager, Building Products Division, GAF Corporation, New York City. February 1.
James A. Suddeth, Vice President-Industrial Sales, Philip Carey Company, Cincinnati, Ohio, February 1.
Clement J. Clarke, Jr., Secretary, American Asbestos Textile Corporation, Norristown, Pennsylvania, February 2.
Mrs. L. H. Saitta, Chairman of the Board, Asbestos Corporation of America, Garwood, New Jersey, February 2.
R. Power Fraser, Jr., Vice President, GAF Corporation, New York City, February 3.
C. H. Sigler, General Manager, Uniroyal Fiber & Textile Division, & Vice President, Uniroyal, Inc., New York City, February 4.
George F. Ducker, Vice President & Division General Manager, Raybestos-Manhattan, Inc., N. Charleston, S.C., February 5.
C. G. Bourne, Production Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada, February 8.
Ralph L. Bullock, Sales Manager, Industrial Products Division, GAF Corporation, Staffordville, Connecticut, February 8.
Dudley T. Colton, Sr., Senior Vice President, International Divisions, Johns-Manville Corporation, New York City, February 8.

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A. Joseph Fontana, Director of Industrial Relations, Uniroyal, Inc., New York City, February 8.
R. H. Dent, Group Chairman & Managing Director, The Cape Asbestos Co. Ltd., London, England, February 9.
C. Fred Workman, Executive Vice President & General Manager, Protective Papers, Inc., Hollister, California, February 9.
Clark H. Harrison, First Vice President, The Clark Asbestos Co., Cleveland, Ohio, February 10.
Stanley E. Price, Vice President-Marketing, Piping & Plastics Industries Div., & President of Certain-teed Badger, Certain-teed Products Corp., Valley Forge, Pa., February 10.
John K. Locher, Assistant Secretary, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, February 11.
R. A. Wells, Joint Managing Director, Turner Brothers Asbestos Co., Ltd., Spotland, Rochdale, England, February 11.
R. H. Bullied, President, Pacific Asbestos Ltd., Calgary, Alberta, Canada, February 12.
James D. Moran, Executive Vice President, The Flintkote Co., White Plains, New York, February 12.
Herbert L. Levine, President, Asbestos Products Manufacturing Co., Newark, New Jersey, February 13.
A. B. Marchant, Vice President for Industrial Relations, Johns-Manville Corporation, New York City, February 13.



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MEN ON THE MOVE

B & B ENGINEERING & SUPPLY CO., INC.

Nicholas Supron, former Assistant Group Executive of AMF Petroleum Services Group, has been elected President of B&B, a subsidiary of AMF Incorporated, succeeding **William M. Proudfit,** who retired after 28 years of service with the firm. Mr. Supron was employed by Dresser Industries before joining AMF in 1969.

JOHNS-MANVILLE CORPORATION

Paul C. Nikitovich was appointed General Manager of a new International Division of Johns-Manville, it was announced by D. T. Colton, Sr., Senior Vice President, International Divisions. A native of Yugoslavia, Mr. Nikitovich joined J-M in 1956 in the Finance Department and prior to that time had been employed by the Koppers Company and The Flintkote Company.

PACIFIC ASBESTOS LTD.

Jean G. Gauthier has been appointed President of Chrysotile Corporation of Australia Pty. Ltd., a subsidiary of Pacific. He will be responsible for bringing the new mill complex near Barraba into production by the end of 1971. Mr. Gauthier had been Operations Manager-Mining with Nicolet Industries, Inc.

H. K. PORTER CO., INC.

Lawrence E. Moody, formerly Manager of Engineering, has been appointed Works Manager for the Charlotte Works, Thermoid Division, Charlotte, North Carolina. Mr. Moody joined Porter in 1965 and has served in several managerial posts at Charlotte and at the company's headquarters in Pittsburgh, Pennsylvania.

SCAPA GROUP LTD.

T. D. Walker, Deputy Chairman since 1964, was appointed Chairman of Scapa Group Ltd. He has for many years been associated with Scapa and with the paper industry and recently completed a tour of the Group's five operating companies in North America. He succeeds **Thomas Hindle** who has resigned from the executive office but who will continue as a Director.

UNIROYAL, INC.

Staton J. Peele, Jr., was appointed Manager of Industrial Textiles Marketing of the Fiber & Textile Division and will be responsible for all marketing functions of the company's Asbeston textiles, rubber industry textiles, and industrial and Duraloc fabrics. **James L. McCabe** succeeds Mr. Peele as Marketing Manager of Rubber Industry Textiles.

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of

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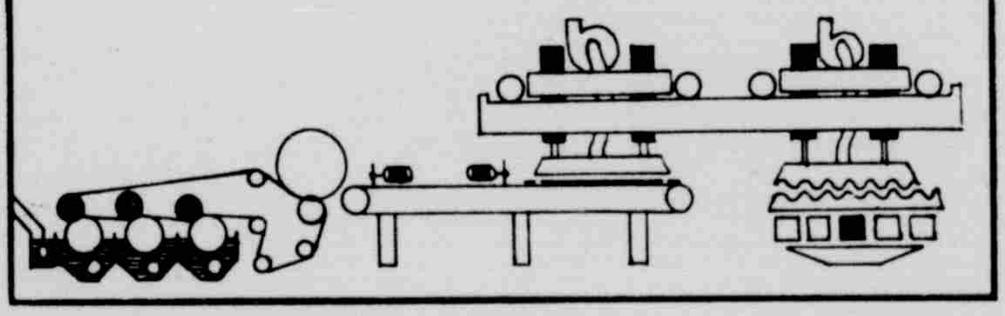
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CALENDAR OF EVENTS

ASTM Committee Week—Schrafft's Motor Inn and Galt Ocean Mile Hotel, Fort Lauderdale, Florida, *January 7-15:* C-4 on Clay Pipe; C-26 on Fuel, Control & Moderator Materials for Nuclear Reactor Applications; D-26 on Halogenated Organic Solvents; D-30 on High Modulus Fibers & Their Composites; E-7 on Non-Destructive Testing; E-18 on Sensory Evaluation of Materials & Products; F-8 on Protective Equipment for Sports; ANSI N-11 on Basic Materials & Materials Testing Involved in Nuclear Applications.

ASTM Committee C-24 on Building Joint Sealants—Netherland-Hilton Hotel, Cincinnati, Ohio, *January 17-19.*

Asbestos Textile Institute—General Meeting, Red Carpet Inn, Charlotte, North Carolina, *February 3-4.*

National Roofing Contractors Association—84th Annual Convention, Regency-Hyatt House, Atlanta, Georgia, *February 7-11.*

National Environmental Systems Contractors Association—3rd Annual Convention, Dallas, Texas, *February 10-13.*

New York State Sheet Metal, Roofing & Air Conditioning Contractors Association—48th Annual Convention, Parkway Inn, Niagara Falls, New York, *February 14-17.*

Association of Asphalt Paving Technologists—46th Annual Meeting, Skirvin Hotel, Oklahoma City, Oklahoma, *February 15-17.* Technical Sessions will be concerned with bases & subgrades—design & performance; mixture properties & pavement analyses; pavement surface characteristics; asphalt materials properties; the modified C.K.E. Test; and application of fracture mechanics in the analysis of cracking of pavement systems.

Earth Science Symposium on Off-Shore Eastern Canada—Camsell Hall, Department of Energy, Mines & Resources, Ottawa, *February 22-24.*

ASTM Committee Week—Sheraton-Biltmore Hotel, Atlanta, Georgia, *February 28-March 5:* C-22 on Porcelain Enamel & Related Ceramic-Metal Systems, D-9 on Electrical Insulating Materials, D-10 on Packaging, D-20 on Plastics, E-5 on Fire Tests of Materials & Construction.

Symposium on Automatic Control Systems in Mineral Processing Plants—Department of Mining & Metallurgical Engineering, University of Queensland, St. Lucia, Australia, *May 18-20.* The purpose of the Symposium will be to review progress in the rapidly-developing field of automatic control in mineral processing plants and to discuss the problems which are arising in on-line measurement of process variables, in the analysis of data and in the development of control systems. Registration fee, including accommodations and a copy of the Proceedings, is $120.00.

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ASBESTOS STOCK QUOTATIONS

CLOSE—NOVEMBER 24, 1970

Abitibi Asbestos	*$4.50	Gulf & Western	15⅜
Advocate Mines	*$2.15	G&W (pfd 1.75)	52⅜
Asarco	25⅝	G&W (pfd 3.50)	68
Armstrong Cork	29	G&W (pfd 3.87)	41½
Armst Cork (pfd 3.75)	51	G&W (pfd 5.75)	55⅜
Asbestos Corporation	*$28.00	Illinois Central	26
Bendix	26⅜	Ill. Central (pfd 3.50)	45⅝
Bendix (pfd 3)	47	Johns-Manville	35¼
Carlisle	13	Maremont	9⅝
Cassiar Asbestos	*$22.00	National Gypsum	19½
Cerro Corporation	16⅜	Natl Gypsum (pfd 4.50)	58
Certain-teed	19¼	Pacific Asbestos Ltd.	*$1.50
C-teed (pfd .90)	19¾	Panacon	2⅝
Conwest	*$9.75	Porter (pfd 5.50)	60⅛
Flintkote	24⅛	Raybestos-Manhattan	24⅞
F-kote (pfd-A 4.50)	68½	Royal Industries	6⅛
F-kote (pfd-B 2.25)	34	Unarco	9
GAF Corporation	9⅞	Union Carbide	36¼
GAF (pfd 1.20)	16⅞	Uniroyal	18⅜
Garlock	16⅞	Uniroyal (pfd 8)	95¼
Grace	27¾	United Asbestos	3-3/16

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

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Bell Asbestos Mines Ltd.
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Cape Asbestos Fibres Ltd.
Carey-Canadian Mines Ltd.
Central Asbestos Co. Ltd.

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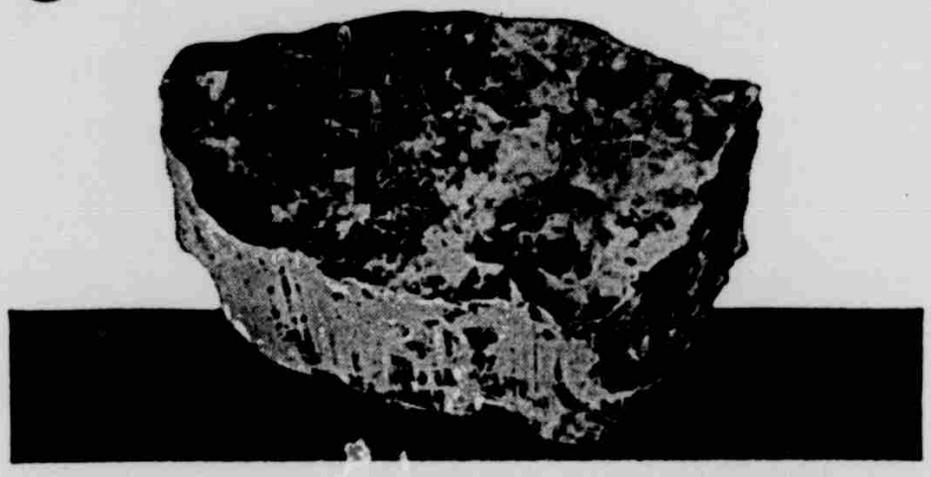
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Remember When?

(December 1920 ASBESTOS)

New Advertisers: John W. Wallace & Co.;
Plant Rubber & Asbestos Works

The leading article, by A. S. Rossiter (later Editor of ASBESTOS), described the manufacture and use of Asbestos Shingles. It was noted that the first building, in this country, covered with Asbestos Shingles was the water tower building on the estate of Dr. R. V. Mattison at Ambler, Pennsylvania. The shingles had been applied in 1904 and were still in excellent condition some 16 years later.

Construction contracts awarded during the first ten months of 1920 totaled $2,336,000,000, according to F. W. Dodge Co.

A new company, The Asbestos Corporation of America, was chartered under the laws of Massachusetts with capitalization of $1.5 million. The company acquired control of the Vermont & Quebec Power Company and of the southwest slope of Belvidere Mountain comprising about 600 acres of asbestos-bearing rock. The Belvidere Mountain property was formerly owned by the New England and United States Asbestos Corporation. A mill was being erected with a planned capacity of 100 tons of asbestos fiber per day and it was reported the entire output for the next ten years had been disposed of.

Rapid progress was reported on the erection of the new plant of West Coast Asbestos Company at Downey, California.

H. W. Johns-Manville Company was said to have purchased a number of properties in the vicinity of Plymouth Meeting, Pennsylvania, for development as dolomite quarries. Dolomitic limestone is a prime source of magnesium carbonate, used in 85% Magnesia insulations.

The Asbestos Textile Company of Massachusetts announced the offering of an issue of $250,000 of 8% cumulative preferred stock, through Otis & Company. Business of the company was running at about $1.5 million annually and profits from operations of its asbestos textile mills at North Brookfield, Massachusetts, were most satisfactory.

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WET...



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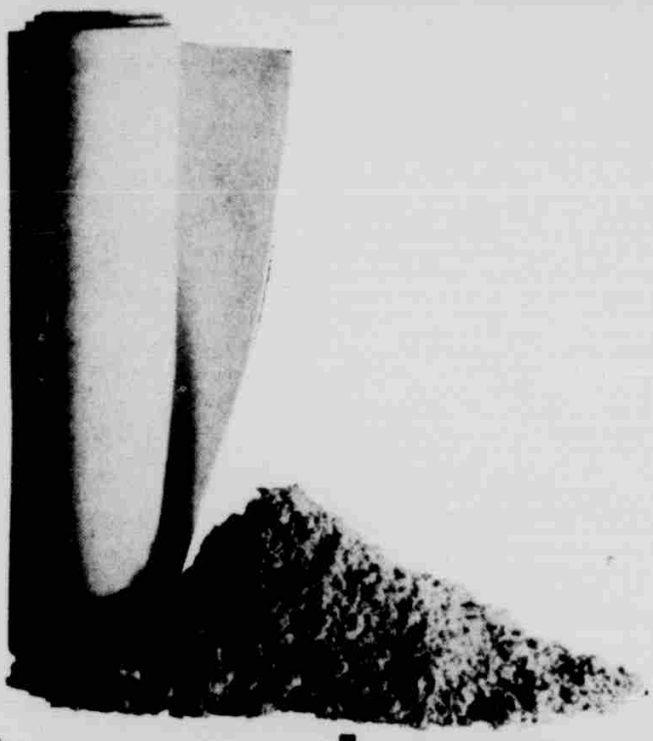
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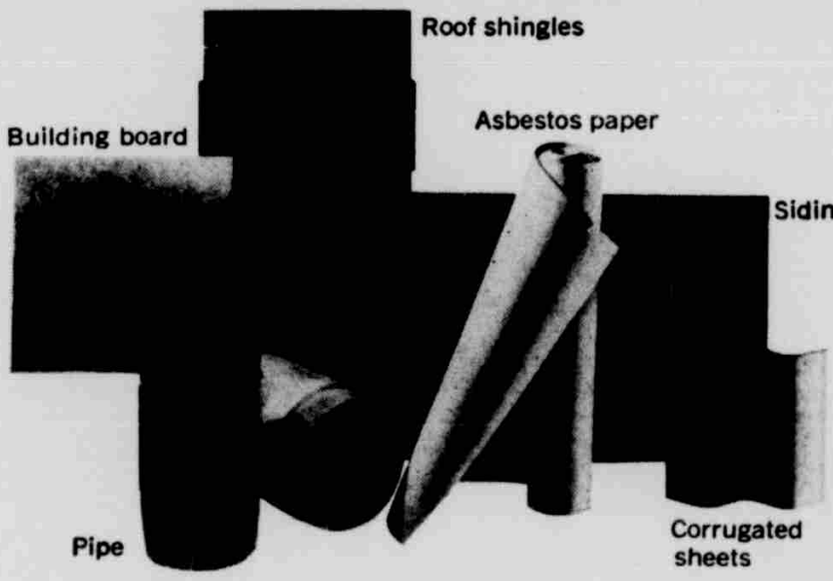
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