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—Featuring—

1971—THE YEAR IN REVIEW



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1971—THE YEAR IN REVIEW

Despite the lag in the economies of the United States and several other major industrial countries, usage of asbestos during 1971, as indicated by production and exports of the major producing countries, showed a healthy increase. Canadian exports of asbestos fiber for the first seven months increased by 10% in quantity and 8% in value. Total imports of fiber by the U.S. for the same period were up 20% in quantity and 23.5% in value.

Continuation of this growth at an accelerated rate is expected for 1972 in view of the predicted improvement in U.S. business in general and, in particular, the current surge in housing starts and expected increases in automotive sales in that country.

Supporting this view, the condensed information in the Review which follows indicates the substantial expansions under way or planned by asbestos miners and processors and the extensive research being undertaken to increase productivity and to develop new and improved asbestos-based products. Such programs, involving very substantial expenditures of time and money, serve to indicate very real faith in the future of the entire Asbestos Industry.

EXPLORATION/MINE & MILL EXPANSIONS

AFRICA

Bend Asbestos Ltd.'s Exclusive Prospecting Order was forfeited. The EPO concerned the right to prospect for asbestos and other minerals in the Gwelo District of Rhodesia.

Cape Asbestos Group is producing a new grade of Amosite, S44, at the Penge Asbestos Mine in the Transvaal. . . . Also, the Cape Group mines have modified their press packing machines to pack in metric weight units.

General Mining & Finance Corporation Ltd. reported that the mines of Griqualand Exploration & Finance Co. Ltd. in the Kuruman area of the Northern Cape attained considerable increases in production and sales of Blue asbestos fiber. Extensions and improvements to milling capacity are being continued and shaft sinking for the development of new asbestos deposits is in progress. Msauli Asbes Ltd. is steadily improving production, sales and working profits at

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its Chrysotile property located 15 miles south of Barberton in the Eastern Transvaal.

Gladstone Mines (Pvt.) Ltd. applied for an Exclusive Prospecting Order to prospect for asbestos, chromium, nickel and platinoids on a twelve-square-mile area situated about 31 miles from Darwendale, Rhodesia.

Valley Asbestos (Pty.) Ltd., following a study of the Anthophyllite property it had discovered in the northern area of the Transvaal, has now determined it would not be economically feasible to invest substantial capital in the proposed venture to bring the property into production.

AUSTRALIA/TASMANIA

Allstate Explorations N.L. is exploring Chrysotile deposits at Beaconsfield, Tasmania, under a leasing agreement with *Newmont Pty. Ltd.* Allstate's consulting geologists, *Watts, Griffis and McOuat Ltd.*, recommended a detailed geological mapping and diamond drilling. In addition, Allstate was granted an Exploration License covering a six-square-mile area adjacent to the Allstate/Newmont property.

Broken Hill Pty. Co. Ltd. is studying the extent and quality of ore at a Chrysotile deposit at Noddy Creek, 30 miles south of Strachan, on the West Coast of Tasmania.

Mt. Coora Mining N.L. and *Austral-Pacific Mining Corporation Ltd.* are jointly investigating asbestos, nickel and copper prospects in the Marlborough area of Queensland.

Pacific Asbestos Ltd., Toronto, Ontario, Canada, following extensive fiber testing by Japanese consumers, signed a contract valued at over $25 million with Marubeni-Iida for the purchase of asbestos fiber from Pacific's Chrysotile property at Barraba, New South Wales. Woodsreef Mines Ltd., an Australian company in which Pacific has a 58.57% controlling interest, is developing the deposit through its wholly-owned subsidiary, Chrysotile Corporation of Australia Pty. Ltd. Among the pieces of equipment in the main mill, which is to be commissioned the middle of this month, are four impact crushers from *Noyes Bros. Pty. Ltd.*, Sydney, a licensee of *Hazemag mbH*, West Germany, and 51 vibrating screens from *Fournier Steelworks Ltd.*, Black Lake, Quebec, Canada.

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BRAZIL

Metas e Bases, as part of its Goals and Bases Program, included a CR$41 million investment in a priority asbestos mining project. It is projected that by 1973 an annual production of 24,800 tons of fiber will have been realized.

Mineracao de Amianto S.A. expects a production rate of about 17,000 tons of fiber per year from its newly-opened asbestos mine at Cana Brava, near Uruacu in the State of Goias. Mineracao is controlled by Tubos Brasilit S.A. and receives some funding from Cie. Financiere et Industrelle Intercontinentale and Cie. dePont de Mousson.

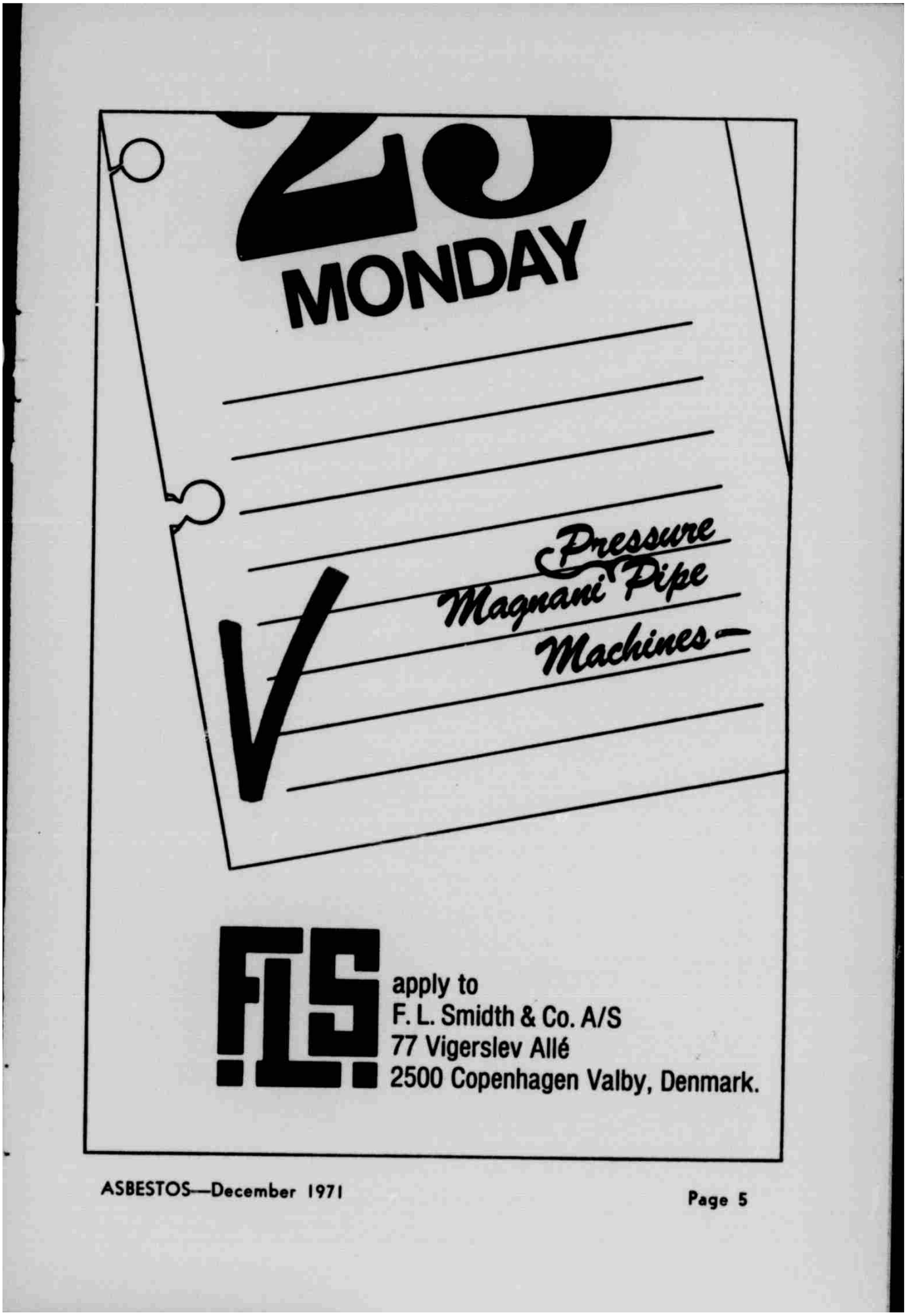
CANADA

Abitibi Asbestos Mining Co. Ltd. received a Feasibility Report from *Kilborn Engineering Ltd.* on the findings of an extensive study of Abitibi's asbestos project situated on the Amos-Matagami Highway in Maizarets Township, 52.5 miles north of Amos in Northwestern Quebec. Test data indicate the fiber to be of excellent quality and within the cement grades of Groups 4, 5 and 6. Based on a daily milling rate of 13,000 tons, present reserves are sufficient for a mine life of 25 years. Abitibi directors are examining methods of financing to bring the property into production. . . . In addition, Abitibi is diamond drilling at an optioned asbestos property near Timmins, Ontario, and has made application for mineral prospecting warrants on three asbestos-containing blocks located on the South Island of New Zealand.

Allied Mining Corporation Ltd. assembled a block of 39 claims covering a total strike length of about 3 miles of an asbestos-bearing ultrabasic intrusive in Midlothian Township, Ontario, about 43 miles south of Timmins. The heart of the property, a block of 6 claims, was acquired last year under option from *Asbestos Lloyd Mines Ltd.* Work completed to date indicates some 52.3 million tons of ore with an average 7.4% of asbestos content. Although a minor amount of Group 4 fiber is present, most of the fiber falls within Groups 5-7. *United Asbestos Corporation Ltd.* recently acquired an equity interest in Allied with a view to possible further participation in its affairs relative to the project.

Asarco Exploration Co. of Canada Ltd. is drilling at an asbestos prospect on claims held by *Kingsbury Asbestos Co.*, a subsidiary of *Golden Age Mines Ltd.* Located near Sher-

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brooke, Quebec, the claims cover about 2400 acres and Asarco is currently working on from 200-300 acres.

Asbestos Corporation Ltd. erected three immense ore storage warehouses at the mine site of its Asbestos Hill property located in the Cape Smith-Wakeham Bay area of Ungava, some 1200 miles north of Montreal. The property is scheduled to go into production by April 1972 and is expected to annually produce 300,000 tons of ungraded fiber for shipment to Nordenham, West Germany, where Asbestos Corporation's subsidiary will turn it into 100,000 tons of finished fiber, mostly in Groups 4 and 5. . . . Since the sinking of a $2.5 million shaft at the Penhale Mine to open up the deep-seated underground ore body, more than 2000 feet of lateral development has been done to check the drill-indicated 17 million tons of ore. The program is to be completed by the end of this year and if drill indications are confirmed, the property will be brought into production with an anticipated daily capacity of 8200 tons. If this occurs, the Penhale Mine will be the world's largest underground asbestos mine. . . . A process called "shrink packaging" is in use at the British-Canadian Mill at Black Lake, Quebec, whereby one or two ton packages of pressure-packed fiber can be handled as efficiently as a single bag.

Canadian Johns-Manville Co. Ltd. completed underground work and established the commercial potential of its asbestos orebody at Garrison Township, Ontario. No further work is planned at present but the property is ready for development into a commercial operation when the need arises. . . . As recorded last year, C.J-M is undertaking a $75 million relocation and reconstruction program at the main Jeffrey Mine at Asbestos, Quebec. To be completed in 1973, the project will ensure continued production at a minimum of 600,000 tons of fiber annually. . . . J-M is assisting a company in India toward the development of two asbestos deposits in that country.

Cassiar Asbestos Corporation Ltd. constructed a new asbestos processing mill near the Cassiar Mine, located on the Yukon border about 80 miles from the Alaska Highway, at Cassiar, British Columbia. The mill is capable of processing 3000 tons of ore per day. *Kilborn Engineering Ltd.* was the overall plant engineering consultant for the project and *Cape Installations Ltd.* erected the building, under the supervision of Cassiar Asbestos. . . . The Clinton Mine is the most northerly open-pit mine in North America, situated at Clin-

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Asbestos

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Without asbestos, life for all of us would be a lot more hazardous.

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 Fibre Sales, Box 159, Manville, New Jersey 08835 U.S.A.

Johns-Manville JM



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ton Creek in the Yukon Territory, 30 minutes north of the 64th parallel. The mine is expected to produce an estimated 117,000 tons of asbestos this year and total production will probably approach the capacity figure of nearly 130,000 tons during 1972.

McAdam Mining Corporation Ltd. optioned its 61-claim asbestos prospect in McCorkill Township to *Rio Tinto Canadian Exploration Ltd.* The property is situated 25 miles east of Chibougamau, Quebec, and work done by McAdam indicated reserves of 156 million tons.

Pathfinder Resources Ltd. is continuing the diamond drilling and exploration program at its optioned short, cross-fiber Chrysotile property in the Eastern Townships area near Richmond, about 5 miles southeast of Asbestos, Quebec. A 100-ton-per-day mill is being renovated at St. Adrien, some 20 miles from the property.

COLOMBIA

Instituto de Investigaciones Geologico-Mineras assessed Colombia's mineral resources to include 0.3 million metric tons of short-fiber asbestos. The evaluation is based on geological surveys that had been conducted by the Institute.

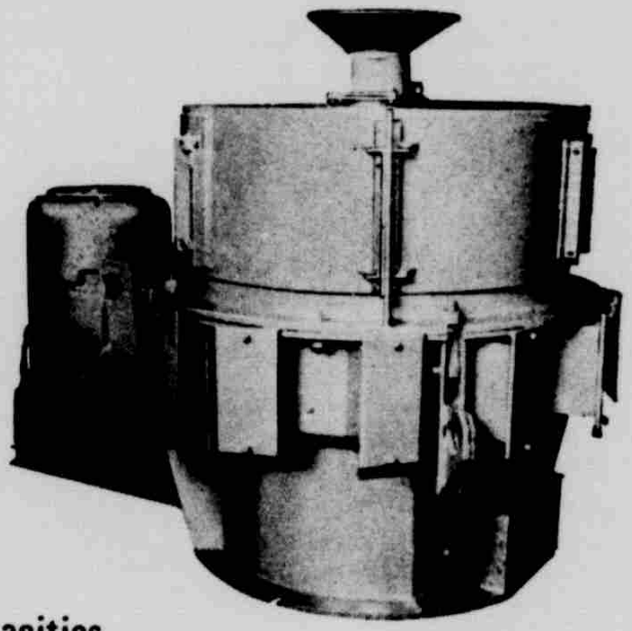
Nicolet Industries Inc. will provide foreign capital to develop an asbestos property at Campamento in the Department of Antioquia. The deposit has proven ore reserves of 280,000 tons plus 420,000 tons of probable ore reserves. Production is scheduled to commence in 1973 at an expected annual rate of 25,000 metric tons. *Compania Minera Emmo S.A.* holds a 30% interest in the development project.

GREECE

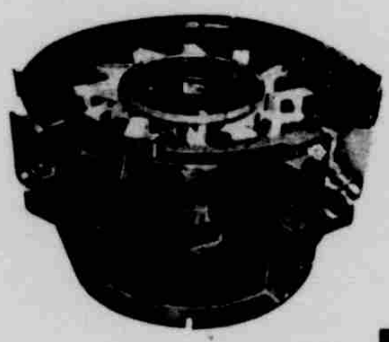
Cerro Corporation, through its subsidiary, *Asbestos Mines of Northern Greece S.A.* (MABEM), completed the first phase of the project at the Zidani asbestos deposit near Kozani. The project includes exploration, studies and start-up of an asbestos fiber pilot plant, built under the supervision of *Kilborn Engineering Ltd.* Should the results of fiber testing prove satisfactory, MABEM will put the mine into commercial production and will establish a fiber plant with an annual production capacity of 45,000 metric tons. MABEM is 90% owned by Cerro and 10% owned by the

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Simplicity's newest D'CENTEGRATOR has 12 harder anvil heads, handy access doors, a lot less dust and your choice of two capacities . . .



Milling asbestos ore is really murder on breaker bars. Simplicity has changed its basic design from bars to impact anvils that are mounted in slots. With the new access doors, one man can adjust or change these anvils in minutes (without taking off the top plate). A new dust chamber above the impeller allows this Fiberizer to discharge onto a screen or belt conveyer without creating a serious dust problem.



With top plate removed, you can see the 12 anvil-block-and-slot construction now used on the model 24-B and 40-B Simplicity D'CENTEGRATORS. Ask us for bulletin DC-66. Direct dial Area 517/288-3121 or write Simplicity Engineering, Durand, Michigan, 48429 for your copy.

PROCESS EQUIPMENT DIVISION

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16

Hellenic Industrial Development Bank, an agency of the Greek Government.

MEXICO

Freeport Minerals Co. reports it is still testing bulk samples from the asbestos deposit near Cuicatlan, approximately 100 kilometers northwest of Oaxaca in southeastern Mexico. The work is being conducted by Freemex, S.A. (a wholly owned subsidiary of Freeport) and its Mexican partner, Industrias Penoles, S.A.

UNITED STATES

Jaquays Asbestos Corporation, during development of its Chrysotile Mine in Gila County, Arizona, discovered new ore faces that showed as much as 6″ of solid fiber, with one band of exceptionally soft fiber 3″ in length. The mining company reports the total iron content in the new ore is 0.2%.

Adams Mining & Milling expects to undertake open-pit mining at its three Chrysotile deposits located five miles southwest of Weed, California. According to the owner, Archie Q. Adams, the mining and milling equipment will be capable of processing 2000 tons of ore per day for a net production of about 32 tons of fiber.

Union Carbide Corporation produces asbestos from its deposit located near Coalinga, California. The deposit is unique in that it contains only short-fiber Chrysotile, equivalent to Canadian Group 7 or shorter. The products from the property are marketed by Union Carbide under the "Calidria" trade name.

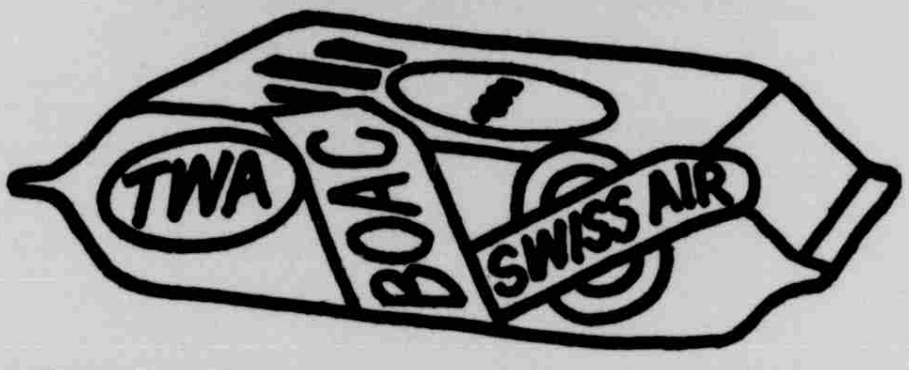
OTHER EXPANSION PROJECTS

Caribbean Asbestos Products Ltd., Kingston, Jamaica, is manufacturing asbestos-cement pipe at its new $3 million plant. Completed in October 1970, the factory is part of a long-range $14.4 million expansion program.

Cement and Lime Works is producing asbestos-cement pipe at its new factory in Selyp, North Hungary. The plant

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The Worldly Asbestos



Carey-Canadian Mines, Ltd., one of the world's largest producers of asbestos fibre, can serve your needs around the world. Overseas sales agents are listed below. Additional information may be obtained by writing to

Dept. ASB-1271, Carey-Canadian Asbestos, Division of Panacon Corp., P.O. Box 15070, Cincinnati, Ohio 45215.

CAREY.

Mt. Waverly, Victoria, Australia	K. V. Robinson & Ass. Pty., Ltd.
Wien, Austria	Robert Weisz
Copenhagen, Denmark	Andreas Jennow A/S
London, England	Central Asbestos Company, Ltd.
Helsinki, Finland	Oy Max Aue
Paris, France	G. Devineau, S.A.
Duisburg, Germany	Duetsche Asbest-Gasellschaft G.m.b.H.
Lubeck, Germany	Possehl Erzkontar
Athens, Greece	A. D. Papachristopoulos & Company
Calcutta, India	Expert Agency Service Private, Ltd.
Tel-Aviv, Israel	K. J. Deutsch
Torino, Italy	Franco Rol
Tokyo, Japan	T. Kakiuchi & Company, Ltd.
Seoul, Korea	Bryony Corporation
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.
Ponce, Puerto Rico	Porto Rico Iron Works
Buenos Aires, Argentina, S.A.	Will L. Smith, S.A.
Sao Paulo, Brazil, S.A.	ICI-Intercambia Commercial International Ltda.
Barranquilla, Colombia, S.A.	General Sales Corp. Ltda.
Lima, Peru, S.A.	Ralph W. Gutierrez
Valencia, Spain	Guzman, S. A.
Stockholm, Sweden	N. AB Nicolia Johannasen
Caracus, Venezuela	Ing. N. Sekler Y Associados S. R. L.

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is the second largest of its kind in the country and it will have an annual production of some 1200 kilometers of pipe.

Certain-teed Products Corporation's majority-owned subsidiary, Modular Sciences, Inc., is building a $1 million housing plant at Hillsborough, North Carolina, for the manufacture of modules, panels and other components.

Hungary's largest asbestos-cement works at Nyergesujfalu, operated by the Eternit Group, is being modernized and an asbestos sheet factory is to be added. In addition to equipment such as belt conveyors, stackers, destackers and corrugators from F. L. Smidth & Co. A/S, Denmark, six Hatschek-type board machines from the USSR and three large hydraulic presses from Skoda, of Plzen, Czechoslovakia, were acquired.

James Hardie Asbestos Ltd. officially opened its new plant at Welshpool, Australia, early in June and at about the same time introduced "Hardiflex," an autoclaved asbestos/cellulose fiber and cement building sheet.

Johns-Manville Corporation increased production capacity 40% at its plant at Waukegan, Illinois, to meet future needs of the replacement market for heavy-duty brake blocks.

Raybestos-Manhattan, Inc., via R/M International, is establishing a manufacturing facility in Australia to provide clutch facings for the automotive industry in that country.

Siam Fiber-Cement Co., a producing company of the Siam Cement Group, is now manufacturing ASBESTOLUX sheets with new machinery recently installed at Bangsue.

Surveyer Nenniger & Chenevert Inc. formed a new subsidiary, SNC Ingenieurgesellschaft mbH, in Dusseldorf, West Germany.

Turner & Newall Ltd. is re-activating the asbestos-cement pipe-making machine at the Enugu Works of Turners Asbestos Cement (Nigeria) Ltd.

RESEARCH/INDUSTRIAL HEALTH

COMPANY EFFORTS

Certain-teed Products Corporation printed "Pollution: A Realistic Appraisal" to set forth its pollution control policy.

Nippon Asbestos Co. Ltd., Tokyo, Japan, measures dust by the membrane and digital dust counter method. The

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MANUFACTURERS
OF FOURDRINIER WIRES · DANDY ROLLS

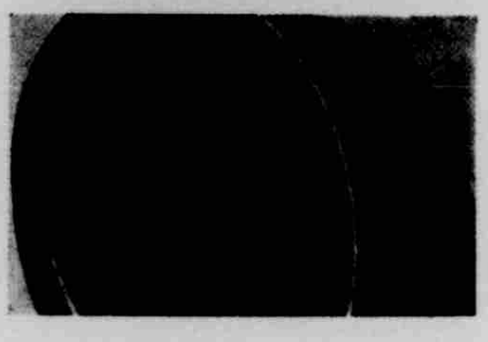
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and self adjustable tension.
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measurement standards correspond to those recommended by the Asbestosis Research Council in England.

Johns-Manville Corporation is offering an Industrial Hygiene Engineering Service for the economic in-plant control of dust, vapor, fumes and noise.

Turner & Newall Ltd. is establishing an additional fiber research unit at the Rochdale location of Turner Brothers Asbestos Co. Ltd. to undertake long-term investigation into the technological and commercial possibilities of fibers other than asbestos.

NEW RESEARCH/INFORMATION ORGANIZATIONS

Asbestos Information Association/North America was organized by the eight leading asbestos products manufacturers in the United States as a positive step toward meeting the need for a reliable source of accurate data concerning the effects of asbestos dust on human health.

Asbestos Information Committee (Benelux) was formed by the principal producers of asbestos-based products in Belgium and Holland, specifically to stimulate research by, and intercommunication between, member companies and to centralize medical and technical studies relative to industrial hygiene.

Asbestosis Research Council Foundation, by arrangement with the National Coal Board, was established by the Asbestosis Research Council within the Institute of Occupational Medicine, Edinburgh, Scotland. The intent is to concentrate research at one location to provide closer liaison between researchers in different disciplines, leading to more effective utilization of the Council's resources.

The Center for Technological Development is a new industrial research institute being established at l'Ecole Polytechnique, on the campus of the University of Montreal. CDT's specialized areas of research will include technological forecasting, increasing the efficiency of industrial processing systems, developing and testing new building and structural materials, industrial applications of microwave power and improving ore-dressing methods.

The Institute of Mining Research is in operation at the University of Rhodesia with the main objectives of undertaking research for the benefit of mining and collecting and disseminating data of value to the mining industry.

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& Fibres

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RESEARCH STUDIES

Dun & Bradstreet's Marketing Services Division issued a printed summary of the findings of the national survey it undertook to determine what steps are under way to control industrial, air, water and solid waste disposal pollution.

IIT Research Institute, Chicago, Illinois, was awarded a contract by the National Air Pollution Control Administration to review the Asbestos Industry to assess the possible emissions of asbestos dust into the atmosphere and the control techniques used to curb the emissions. The study is not concerned with medical aspects or industrial health but with the pollution control techniques now in use.

The Insulation Industry Hygiene Research Program continued to issue its quarterly "Insulation Hygiene Progress Reports."

Mortality in the Chrysotile Asbestos Mines and Mills of Quebec, by Dr. J. C. McDonald et al, is a report of a 3-year study completed in 1970 of the health of employees of Quebec's asbestos mining industry born between 1891 and 1920.

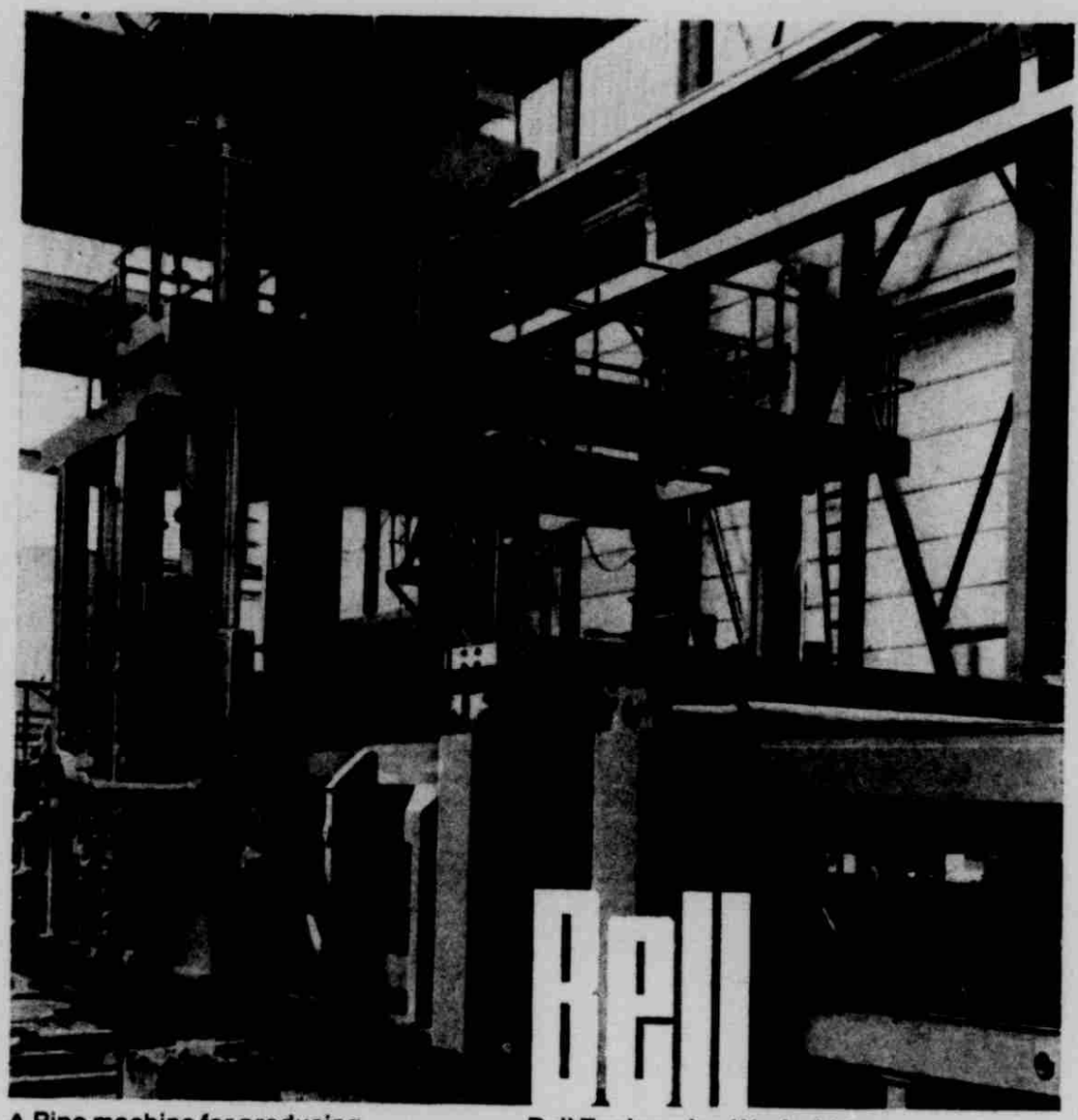
Aqueous Surface Chemistry of Asbestos Minerals is the subject of a research study being made under the direction of Dr. R. W. Smith, University of Nevada, under a grant from the U.S. Department of Health, Education and Welfare. A limited number of copies of Progress Report #1 are available.

The National Building Research Institute discovered that insufficient precautions are being taken in South Africa to prevent the start and the spread of fires in high buildings. As a result, NBRI is studying ways to rectify the situation.

EPA HEARINGS

The U.S. Federal Register listed asbestos as a hazardous air pollutant on March 31, 1971, indicating the Environmental Protection Agency had determined that even slight exposure to asbestos *may* threaten human health and careful control must be maintained to avoid releasing the substance to the environment. In order to comply with the 1970 Clean Air Amendments, EPA will propose National emission standards for sources of the hazardous pollutant. The standards will be promulgated after hearings, and are to be set within one year of publication of the list.

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▲ Pipe machine for producing pressure pipes.

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Stacking presses for high density sheets
Cross conveyors
Corrugators

Pipe machines for high pressure pipes
Pipe and socket lathes
Cutting-off lathes
Presses for water pressure test

Auxiliary Equipment
Waterring vacuum pumps

Experience for decades are guarantee of well-devised and reliably working machines

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OTHER PERTINENT LITERATURE

Recommended Practices for Fabricating, Handling & Applying Asbestos-Cement Products in the Building & Construction Industries—Health & Safety Council, Asbestos Cement Products Association, 521 Fifth Avenue, New York, New York 10017.

Questions & Answers/Asbestos & Health—Asbestos Information Association/North America, 22 East 40th Street, New York, New York 10016.

Measurement of Airborne Asbestos Fiber by the Membrane Filter Method—Asbestos Textile Institute, P.O. Box 239, Pompton Lakes, New Jersey 07442 ($1.00). Also available, free of charge, from ATI is a pamphlet on the *Recommended Health Safety Practices for Handling & Fabricating Asbestos Textile Products.*

Dust Sampling Procedure for use with the Asbestos Regulations 1969—Asbestosis Research Council, Rochdale, Lancashire, England (Technical Note No. 2). The first technical note published by ARC is titled *The Measurement of Airborne Asbestos Dust by the Membrane Filter Method.* Also of interest is *Achievements 1957-71*, a review of the work carried out by the Council since its formation.

Asbestos: Health Precautions in Industry—Department of Employment and Productivity and the Central Office of Information, England (Booklet No. 44; 70c; from Her Majesty's Stationery Office, London).

Asbestosis, a bibliography of the world's literature abstracted and indexed 1960-68—Pneumoconiosis Research Unit, Council for Scientific and Industrial Research, South African Institute for Medical Research, P.O. Box 4788, Johannesburg. Also available from the Unit are reprints of three articles that were published in "Environmental Research": *Radiological Features of Diffuse Mesothelioma, Radiology of Asbestosis*, and *Asbestosis in South African Asbestos Miners.*

The Physics and Chemistry of Asbestos Minerals—preprints of the papers presented at the 2nd International Conference on "The Physics and Chemistry of Asbestos Minerals" ($10.00 per set from any member of the Conference Committee).

FILM—WHY ASBESTOS?

A new documentary film, *Why Asbestos?*, was produced on behalf of the Asbestos Information Committee, 10 War-

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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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dour Street, London W1V 3HG, England. In less than 20 minutes, the 16mm, color/sound film describes in simple terms why asbestos is indispensable, what it is and how it is used in the modern world.

POLLUTION CONTROL EQUIPMENT

Aerodyne Development Corporation, Cleveland, Ohio, published a catalog to demonstrate the effectiveness of its *oil skimmers*, designed to remove oil wastes from water or other fluids and to return the cleaned water to local streams or to recirculating systems for re-use.

Cape Universal Building Products Ltd., Watford, England, developed a range of portable hand tool accessories to *control asbestos dust* when cutting, on site, asbestos-based building materials.

The Carborundum Co., Niagara Falls, New York, introduced a line of compact, lightweight, *portable Type CU dust collectors. . . . DCE Dalamatic filters* are in use at Marinite Ltd.'s board plant at Glasgow, Scotland, serving cyclone-type silos, collecting dust from sanding and controlling dust emanating from cutting and trimming operations.

Fisher-Klosterman, Inc., Louisville, Kentucky, added series *ACF automatic fabric collectors* to its line of dust collecting equipment. The new units offer 99.9% efficiency in collecting particles as small as 0.5 microns.

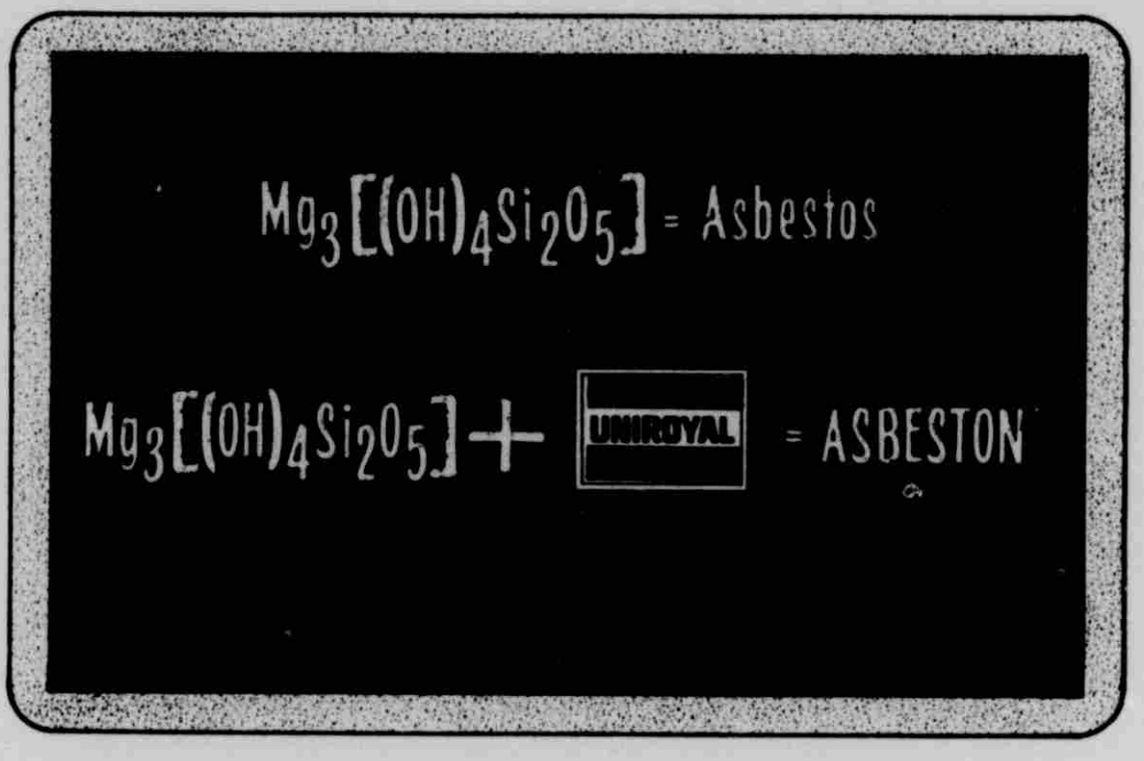
Personal Environment Systems, Inc., Glendale, California, as part of its line of Whitecap Personal Protective Systems, announced individual, self-controlled *air purification and air conditioning systems* to provide total protection to lungs, throat, head and eyes.

Schutte and Koerting Co. (Canada) Ltd., Kitchener, Ontario, issued Air Pollution Catalog 7R to give engineering data on its *air pollution control systems.*

Scott Research Laboratories, Inc., Plumsteadville, Pennsylvania, a subsidiary of American Bioculture, Inc., announced three models of its new *Mobile air pollution laboratories.*

The Wheelabrator Corporation, Mishawaka, Indiana, issued Bulletin 578-D to announce its line of *Ultra-Dyne air pollution control equipment* and Bulletin 579-D on the *Ultra-Jet pulse-type fabric filter dust collectors.*

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We put together a clever combination of asbestos, natural and man-made fibers and came up with ASBESTON®, the popular Uniroyal line of high temperature resistant yarns and fabrics. They'll take temperatures up to 750° F., yet offer high strength and dependability.

Chances are we already make a yarn or fabric you need. But if you've come up with a new idea let us engineer materials to your specification. We're always looking for new ways to put Asbeston to work.

UNIROYAL FIBER & TEXTILE
350 Columbia Road
Winnsboro, S.C. 29180

The Willson Products Division of ESB Inc., Reading, Pennsylvania, introduced the improved *R1200 series of dual cartridge respirators* and the *1150 Monomask 2* with flexible, molded rubber ¾ face-piece. . . . In addition, Willson published Bulletin W7123 on the *Casella M.R.E. Gravimetric dust sampler* including an introduction to the T200 M.R.E. Cassette Mailer with Mine Data Card.

NEW COMPANIES

EnvirCo, Houston, Texas—will design, manufacture and sell engineered devices to remove particulate matter from air exhausts and systems to improve the efficiency of treating waste streams.

AWT Systems, Inc., (Advanced Waste Treatment Systems)—jointly formed by Hercules Inc. and Procedyne Corporation. Hercules owns 80% of the new company and the remaining 20% is owned by Procedyne.

COMPANY NEWS/FIBER & PRODUCTS

AllianceWall Corporation, Alliance, Ohio, reports that its porcelain-on-steel panels containing an asbestos-cement core are incombustible and in the case of fire, toxic fume generation is undetectable.

Asahi Asbestos Co. Ltd., Osaka, Japan, and *Teijin Ltd.*, Tokyo, jointly developed a new impact-resistant asbestos-cement board. During the production process, a high-strength, chemical and weather-resistant fiber is integrated in the board and the inclusion of the specially-blended fiber overcomes the common problem of fragility.

The Cape Asbestos Co. Ltd. issued the following booklets and manuals during the year. "The Cape Group of Companies" gives the particulars of the Group's subsidiaries and mining activities and briefly covers the development of the Cape Group since its incorporation. . . . "Cape Review 1970" is the second annual review of the affairs of the company. . . . "CBPL Technical Manual 1970/71" includes new information on 13 subjects concerning theory and application. . . . "Amphibole Asbestos" offers data on the history and development of the Asbestos Industry; mining, milling and fiberizing methods; physical and chemical properties; technology; quality testing; and applications. . . . A new supply of reprints of Dr. A. A. Hodgson's lecture on "Fi-

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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.

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Asbestos Magazine, 1971, December 1971
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brous Silicates" is available.

Cape Universal Building Products Ltd. developed "Greycoat," a new evolvement in the painted-surface treatment of asbestos-cement to meet the demand for a decorative, low-cost system of sheet cladding. . . . A new technique for trimming wet asbestos-cement board is the result of a joint research and development program between Cape Universal and *C. D. Monniger Ltd.*

Carey-Canadian Mines Ltd., East Broughton, Quebec, supplied 116,000 pounds of its "Pavebestos" brand of Grade 7M asbestos fiber for mixing with other materials to pave Quebec's new $57 million, six-lane Pierre Laporte Bridge.

GAF Corporation issued Technical Bulletin 6130-021 to describe its line of corrugated and flat asbestos-cement sheets. The sheets are completely incombustible and provide economical and long-lasting roofing and siding for industrial, commercial and institutional buildings.

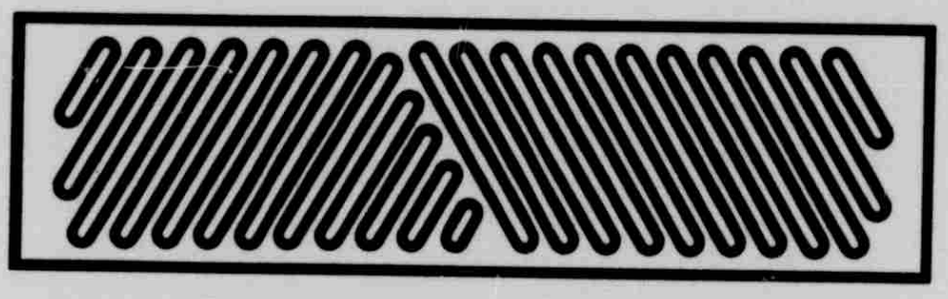
Johns-Manville Corporation introduced Style No. 86A, a compressed asbestos sheet gasketing material composed of long white Chrysotile fibers combined with a binder specially formulated to withstand attack by many acids and alkalies found in the chemical industry. . . . T.V. BORD is a new electrical grade inorganic asbestos fiber board from J-M that offers permanent fire resistance and an extra margin of safety in electrical and electronic devices. . . . J-M reported favorable results of a study made by the Los Angeles County Road Department on the use of asbestos as an asphalt pavement additive. . . . RTR, a new glass fiber reinforced, thermosetting resin sewer fitting is said by J-M to be lighter than any presently used for 8" asbestos-cement sewer pipe. . . . A new line of ceramic-faced cones for mechanical seals was introduced by J-M for service in all sewer applications and for any other service containing solids, fines or grits. . . . TYPE FL is a rotary and rod scraper oil seal developed by J-M for industrial and automotive applications. . . . The latest technical information on HEAF is given in a J-M brochure titled "HEAF—Hi Energy Air Filter". . . . Other J-M bulletins available from the company are concerned with asbestos/asphalt concrete, asbestos/asphalt bridge deck pavements and specialty insulation materials.

Kaiser Aluminum/Miraval Products, Port Carbon, Pennsylvania, introduced MIRAWELD, a new color-fused asbestos-cement building panel. Extra strength of asbestos

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Robalit 61

Suction Box Covers and Felt Conditioner Tops for Asbestos-Cement Pipe and Sheet Machines. Our plastic material alloyed with Molykote is proven in countless installations throughout Europe and Overseas.



- Covers made to your specification. Modern herringbone pattern with stretch-out effect at no extra cost.
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fiber reinforced Portland cement and silica board is achieved by a curing process involving steam at high pressure.

Monsanto Co., El Dorado, Arkansas, announced AL-KOTE as a low-cost, general-purpose reflective coating that has an effective life of 15-20 years. Nationally marketed under the Lion Nokorode line of products, the new coating contains 6-8 times the thickness of ordinary paint and is composed of asphalt, long-fibered asbestos and reflective aluminum.

National Gypsum Co.'s PLASTI-CLAD panel, a premium grade of prefinished asbestos-cement sheet is part of the company's line of quality exterior mineral fiber products, and is ideal for use in the mansard style of roofing construction.

Pacific Asbestos Corporation, Copperopolis, California, issued an informative brochure to relate its story of "improved production, high quality fiber, optimum service to customers and a strong corporate organization."

H. K. Porter Co., Inc., Pittsburgh, Pennsylvania, added "Thermoid Porersite-G" to its line of Amosite insulating felts. Basic materials in the new insulation felt are glass mat with asbestos, wire-inserted thread as a binder. . . . Porter's Thermoid Division announced a new line of "Thermine conveyor belting" for underground mining applications. . . . Bulletin TJ-5526 entitled "Thermoid Marine Asbestos Textile Products" details the six Thermoid asbestos textile products suitable for marine applications.

Raybestos-Manhattan, Inc., Bridgeport, Connecticut, published "NOVATEX—For Things Too Hot to Handle" to describe its new class of unusually lightweight and flexible asbestos textiles. Produced by a new wet process, Novatex 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. . . . R/M designed fluorocarbon-coated asbestos fireseals for installation on McDonnell-Douglas DC-9 and DC-10 aircraft. The formed seals are produced from Grade AAA wire-inserted woven-asbestos fabric. . . . The R/M insulating material called "'Gator Tape" was selected by underground line construction crewmen at Indianapolis Power and Light Company, especially for its flexibility and low cost. A product of R/M's Asbestos Textile Division, the tape contains 80-85% asbestos fiber and was developed specifically for wrapping underground cables. . . . Reprints of "Asbestos: Today,

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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.

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ASARCO

Tomorrow, the Day After Tomorrow," by John W. Hawkins, are available from R/M. The technical article chronicles the versatility of Chrysotile, Crocidolite and other asbestos fibers in a wide variety of fabricated forms for industry and aerospace, including asbestos fiber composites.

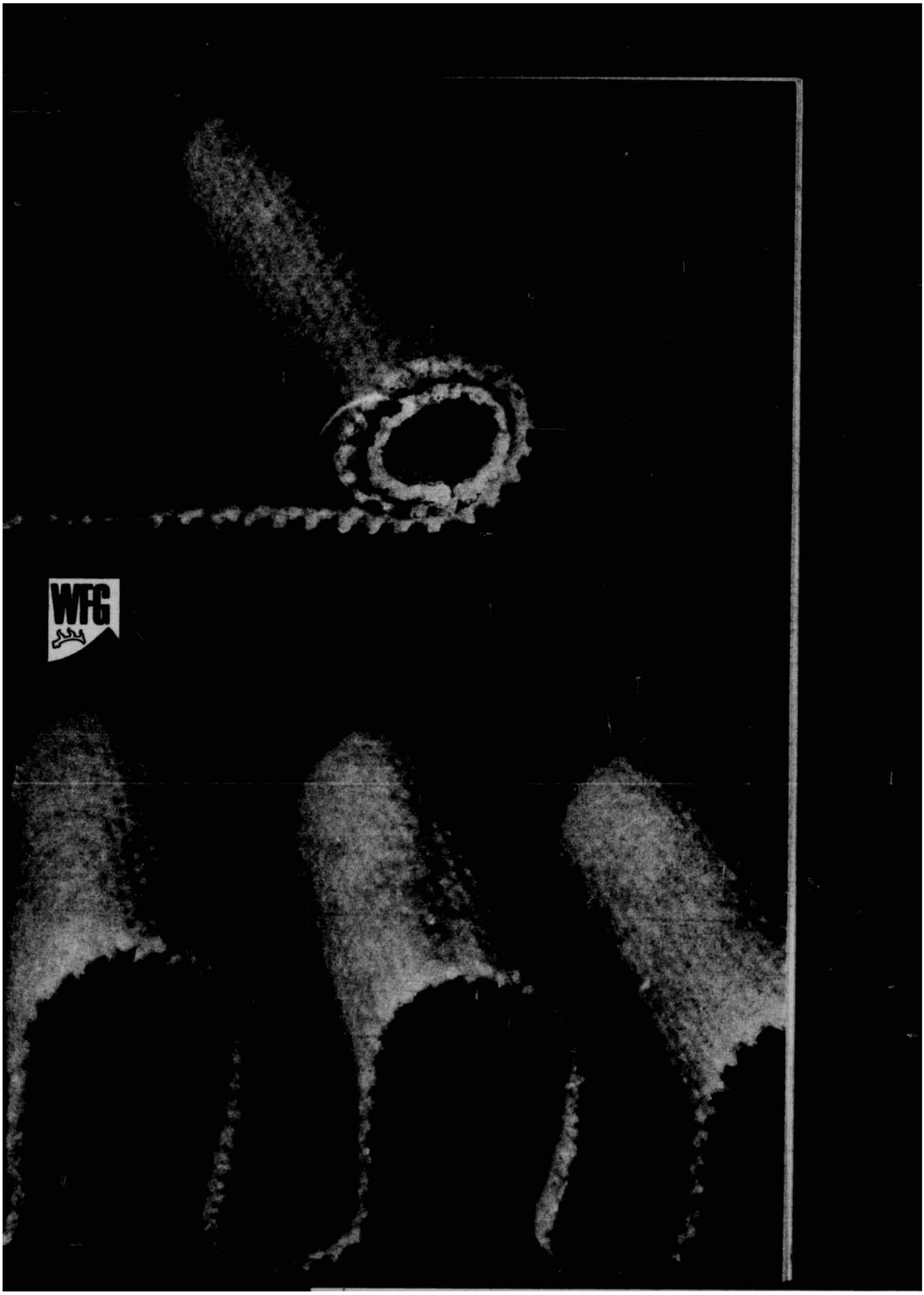
Superocla Ltd., Roodepoort, South Africa, published an interesting catalog to show the extent to which the market for asbestos-cement garden furniture and receptacles has developed in South Africa. Superocla is the resultant company from the merger between Superconcrete Pipes (S.A.) Ltd., and Messrs. Rocla Pipes Africa (Pty) Ltd.

TAC Construction Materials Ltd., Manchester, England, a member of the Turner & Newall Group of Companies, issued "Wind Loading on Asbestos-Cement Cladding" as Tech 9 for use as a guide in complying with the new loading requirements of the revised British Standard Code of Practice, CP3.

Turner Brothers Asbestos Co. Ltd., Rochdale, England, a T&N company, announced a new line of Chrysotile asbestos textile products made by a revolutionary wet dispersion process. The yarns in the new "Fortex" range of products are manufactured by a chemical process that eliminates the need for mechanical opening and carding and the textiles are free from the tendency to shed fiber and dust particles. . . . TBA added two new compounds to its "Arpylene" range of reinforced thermoplastic moulding materials: an asbestos-reinforced polypropylene compound classified as "nonburning" and an asbestos-reinforced polystyrene compound classified as "self-extinguishing."

Miscellaneous Items—Asbestos-cement sun baffles have gained unprecedented popularity in the Philippines as light, flexible, economical and effective sun deflectors. . . . Fibreglass Ltd., of Great Britain, in association with British National Research and Development Corporation and the British Building Research Station, developed a glass fiber that resists alkali and the company sees the fibers as a possible replacement for asbestos in reinforcing Portland cement. . . . Soviet scientists combined asbestos, phenol-silicon-organic resin B-1 and polyorganoborosiloxane to develop a glue that binds in temperatures up to 1200°C and that can be used on heat-resistant and non-metallic materials. . . . If a recent discovery by a Toronto engineering firm works out, "puffed" wheat kernels may team up with asbestos fiber and Portland cement to make a low-cost, lightweight construc-

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WFG

tion and insulation material. . . . "Plasterfast" is a new coating in use in the Canadian construction industry. Composed of asbestos fiber, silica, mica, titanium and a bonding agent, it can be applied to almost any surface for filling cracks and hiding nail heads and scars.

PROMOTION/PUBLIC RELATIONS

Johns-Manville Corporation reached some 2000 employees in 22 cities in North America via conventional color television. A 45-minute videotape information program was presented so that employees could meet the new management team and learn about current company performance and plans for future growth. . . . A "New Communications in Jazz" program was instituted by J-M and the JPJ Quartet to reach high school students in J-M plant town communities. The musical effort helps the youth to "relate" with business and the free enterprise system.

Scapa Textiles Ltd., Bamford, Rochdale, England, in a successful campaign to announce its formation and specialized services, ran a series of new advertisements in various media including ASBESTOS and later, as a follow through, published a booklet on "The Running of Felts on Asbestos-Cement Machines." The company is engaged solely in the manufacture and sale of felts for the asbestos-cement industry.

NEW CORPORATE NAMES & RELOCATIONS

Eaton Corporation is the new name of the former Eaton Yale & Towne Inc., selected as it effectively endorses brand names, is brief and easy to pronounce and is linguistically acceptable in all major countries.

Freeport Minerals Company is the name changed from Freeport Sulphur Company to reflect the widened scope of the firm's activities in basic minerals.

Johns-Manville Corporation is in the process of moving, to Denver, Colorado, its headquarters operations presently in New York City and the research, engineering, accounting and data processing facilities currently at Finderne, New Jersey. By September 1972, Denver will be the site of one

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of the most outstanding consolidated corporate headquarters complexes in the United States.

AGREEMENTS & ACQUISITIONS

Cape Asbestos Group—Cape Insulation Ltd. took over the thermal insulation contracting business of *Wm. Kenyon & Sons (Thermal Insulation) Ltd.* as of January 1, 1971. . . . Small & Parkes Ltd. finalized an agreement with Gardiner Holdings and British Brake Lining, Sydney, Australia. The newly-acquired subsidiaries of *Quinton Hazell Automotive Ltd.* have been entrusted with the main Australian distributorship for Don and Capasco friction materials.

Certain-teed Products Corporation announced the following acquisitions during the year: *Realtex, Inc.*, Fort Lauderdale, Florida, a land development company; *Pluswood Industries*, Oshkosh, Wisconsin, a manufacturer of prefinished, embossed and vinyl-covered plywood paneling; and *B. F. Nelson Mfg. Co.*, Minneapolis, Minnesota, an asphalt roofing manufacturer. Also, the company increased its holdings to about 81% in Certain-teed Saint Gobain Insulation Corporation.

The Flintkote Co. and *ESB Inc.* entered into an agreement covering the production and marketing of a new line of modular wall systems for interior, exterior and combination interior-exterior construction applications.

Johns-Manville Corporation signed a merger contract with *Holophane Co., Inc.*, whereby Holophane would become a wholly-owned subsidiary of J-M, subject to the approval of Holophane stockholders. Holophane is a manufacturer of lighting fixtures. . . . J-M Idaho, Inc., announced a joint venture agreement with *Sun Valley Co., Inc.*, for the development of an ecologically-sound, year-round recreational community.

Sprout, Waldron & Co., Inc., Muncy, Pennsylvania, entered into an agreement with *A. O. Smith Corporation*, Kankakee, Illinois, for exclusive sales rights for industrial models of Permaglas Storage Units and Sweep Arm Unloaders.

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ANNIVERSARIES

East Broughton, Quebec, Canada, is celebrating its 100th anniversary this year and the Centennial festivities are under the direction of Raymond Gregoire, a crusher operator with Carey-Canadian Mines Ltd., the largest employer in the East Broughton area. According to the town records, an asbestos out-crop was first discovered in the area in 1835 and the first mine went into production in 1886.

Philadelphia Asbestos Corporation has been in business for 50 years. Founded in 1921 by the late Edmund R. Teubner, the then Philadelphia Asbestos Company was originally confined to the business of pipe covering. The firm now covers the spectrum of insulation including industrial distribution of the products of Johns-Manville Corporation, Benjamin Foster Company and Pittsburgh-Corning Corporation.

Turner & Newall Limited—The First Fifty Years was published by T&N to commemorate its Golden Jubilee. The company was formed in 1920 through the amalgamation of four established companies. T&N entered into the asbestos mining industry in 1924.

PROCESSING EQUIPMENT

The Bauer Bros. Co., Springfield, Ohio, and Brantford, Ontario, Canada, issued Bulletin G-33B to describe its Centri-Cleaner Liquid Cyclones. The patented cleaners provide continuous, effective, low-cost removal of settleable solids from slurries. . . . The patented Hydrasieve, previously constructed entirely of stainless steel, is now available with a strong, molded, one-piece glass fiber frame. The machine is a simple but highly-efficient screening device for the removal of solids from low-consistency slurries. C-E Bauer is a subsidiary of Combustion Engineering, Inc.

Cutler-Hammer, Inc., Pembroke, Massachusetts, via the Thayer Scale Division, is packaging a mini-system of batch weighing. The patented Bridge Breaker Hopper assures a free flow of materials to a Thayer Two-Stage Feeder and a Rotary Bucket Weigh Hopper eliminates leakage and discharge hang-ups. . . . Bulletin 2AO205B describes how Thayer Rotary Feeders with Silent Bridge Breaker Hoppers provide accurate volumetric delivery of flooding materials.

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uniform flow of difficult-to-handle materials via Thayer Belt Feeders with Silent Bridge Breaker Hoppers. . . . As explained in Bulletin 5D61, the new LVDT Oscilator-Rate-Totalizer offers a convenient solid state integrating system for constant speed weigh feeders and belt scales.

Littleford Bros., Inc., Cincinnati, Ohio, turns out a typical batch of caulking compound mastic in 5-10 minutes with the new FKM-600D-2Z mixer.

Rex Chainbelt Inc., Milwaukee, Wisconsin, describes, in Bulletin 389 from the Nordberg Division, its expanded line of Nordberg Heavy Duty GP Screens. The single, double and triple deck models of the screens are designed for dry or wet applications in either stationary or portable plant operations.

Sala Maskinfabriks AB, Sala, Sweden, developed a mobile mill for use at small ore bodies and for pilot studies at mine sites. The caravan mill is designed to handle 100 metric tons every 24 hours.

Simplicity Engineering, Durand, Michigan, part of the Process Equipment Division of General Steel Industries, introduced its D'CENTEGRATOR line of fiberizers to the Asbestos Industry in the late 1950's. Since that time, a series of improvements have been made to Models 24 and 40.

Sprout Waldron & Co., Inc., Muncy, Pennsylvania, details, in Bulletin 4040, its centrifugal reel designed for efficient screening of hard-to-handle materials. . . . Bulletin 4050 contains complete descriptions of S-W's three high-capacity revolving screen cleaners.

Stedman Foundry & Machine Co., Aurora, Indiana, a Wean United company, manufactures single-row, cage-type impact crushers and multi-row cage mills. An "all-Canada" contract to represent Stedman in the sale of its equipment was awarded to *Canadian Pulverizer Co.*, Toronto.

Trost Equipment Corporation, Newtown, Pennsylvania, offers grinding data on 150 materials in a new brochure on its line of fluid energy pulverizers.

Vibco, Inc., Lodi, New Jersey, redesigned the top of its line of heavy-duty vibrators. Model DA-M 5000 (Double Amplitude Motor) has a frequency of 1800 vibrations per minute and an adjustable output of 2500 force pounds.

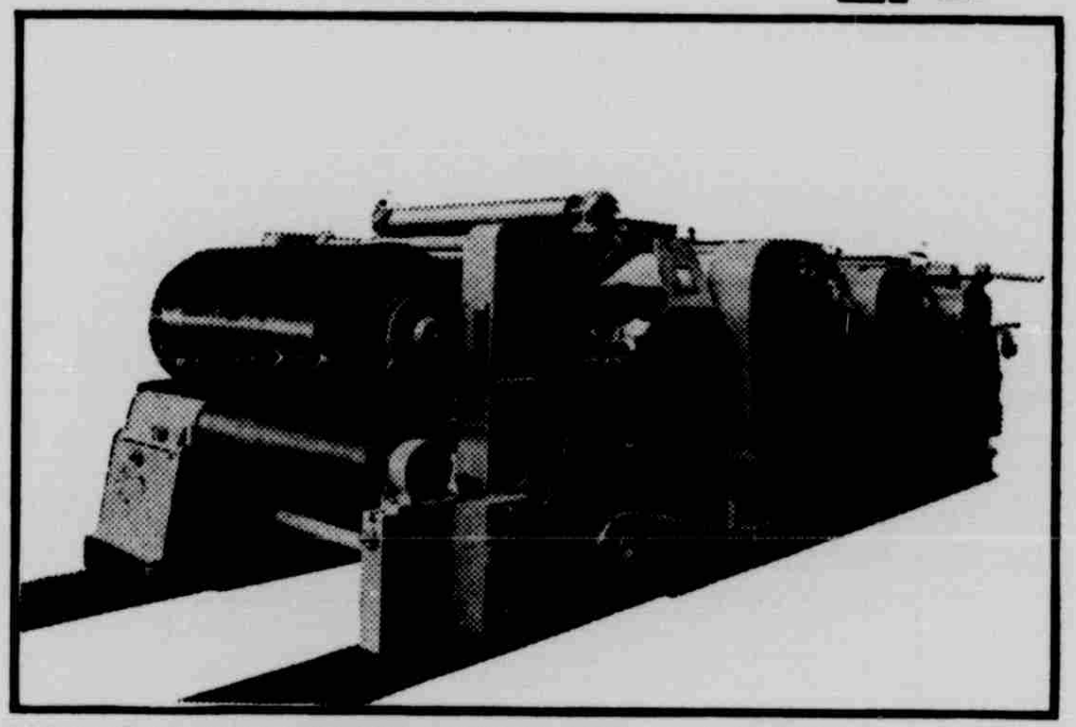
Vibra Screw Inc., Totowa, New Jersey, designed a new gravimetric feeder, the Vibra-Metric, to meet rugged production requirements in critical process applications. . . . Vibra Screw Bin Activators with build-in heating elements

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ASP/HAC/19

asbestos cement *plants*





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PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

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are described in Technical Bulletin T105. . . . Full details on the Vibra Screw line of Volumetric Belt Feeders are given in Technical Bulletin BF271.

CONVEYING & BULK HANDLING SYSTEMS

Speed King Mfg. Co., Inc., Dodge City, Kansas, introduced the pre-engineered overhead Tilt Triangular Truss Conveyor. . . . The Twin-Tilt Channel Conveyor is available for continuous-use applications where height and space limitations exist. . . . The Trough Roller and Trough-Veyor are suggested by the manufacturer where equipment is used intermittently or when the product is confined in a trough for conveying.

Sprout, Waldron & Co., Inc., Muncy, Pennsylvania, contributed an informative article that was published in the March issue of ASBESTOS titled "Pneumatic Conveying and Bulk Purchases: Profit Combination for the Asbestos Industry". . . . S-W developed a new chassis-mounted hopper-bottom pressurized bulk truck for the transfer and unloading of dry, free-flowing materials. . . . The company has specific descriptive literature on its product handling equipment, such as: Advance Specification Sheet 260 on the in-line filter; Bulletin 2120 on Hi-Spin cyclone collectors; Bulletin 2240 on high static pressure fans; Bulletin 4370 on the Roto-Shaker; Bulletin 2810 on the side inlet model of the SR rotary valve; and Bulletin 2520 on the Slider-Board belt conveyor.

C. W. Stevens, Inc., Kennett Square, Pennsylvania, announced the development of the Sonargage Conveyor Control System to control the level of dry materials in storage bins.

Stone Conveyor, Inc., Honeoye, New York, issued a company brochure to describe a variety of industrial conveyors and conveyor systems, from small press-parts conveyors to 200-foot elevating radial stackers.

MINING/CONSTRUCTION/EXCAVATION

Allied Steel & Tractor Products, Inc., Cleveland, Ohio, announced the Model 32 Power-Pac as a new unit that provides power to hydraulic attachments for excavators and cranes.

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Asbestos Magazine, 1971, December 1971
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Atlas Chemical Industries, Inc., Wilmington, Delaware, published a data sheet to describe Aquaram, a NCN blasting emulsion with high velocity and detonation pressure.

J. I. Case Co., Racine, Wisconsin, is marketing two direction-reversing plate-type soil compactors through its new subsidiary, Vibromax Corporation. . . . Construction equipment products will be manufactured by Case at a new facility in Sao Paulo, Brazil. The products will be sold through J. I. Case do Brasil Comercio e Industria Ltda. . . . An increase in the capacity of the W26 Series B articulated loader is among the improvements to the extended Case line of trenching, excavating and materials handling equipment. . . . Other new or improved equipment and systems announced by Case during the year include a 20,500 pound Model 780 CK backhoe; a new hydraulic guidance system, called the Hydra-Guide, for Case Construction King backhoes; and the new 2½ yard W20 articulated loader with lift capacity of 21,200 pounds.

Computer Sciences Corporation, Los Angeles, California, through its nationwide time-sharing service, Infonet, introduced a comprehensive package of applications programs for the construction industry.

Marion Metal Products Company, Cleveland, Ohio, has a new series of special application engineered dump bodies for delivering materials up to 15 feet above ground level.

Prosser Industries, Anaheim, California, advised it has 45 pump models ranging from ¾ to 40 horsepower for use in open-pit dewatering or gathering and disposal of water.

RayGo, Inc., Minneapolis, Minnesota, developed a king-size grader and leveler for use in mining applications. "The Giant" can handle up to 4000 cubic yards of earth per hour.

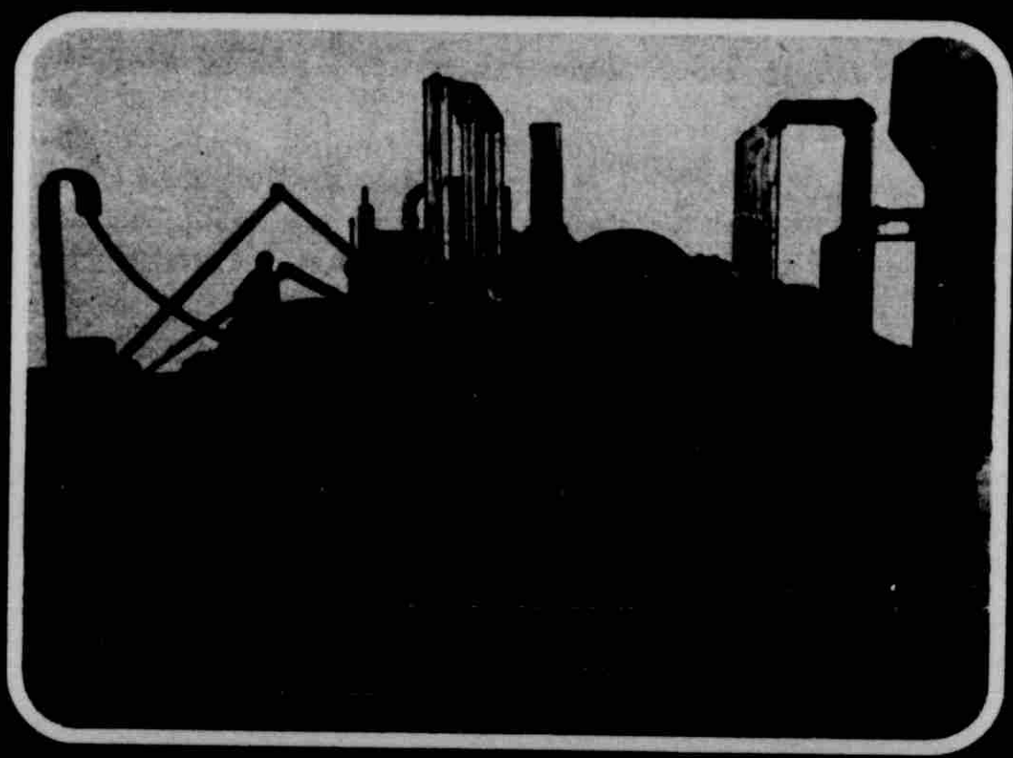
Schramm, Inc., West Chester, Pennsylvania, describes its HT160 Pneumatractor as the most versatile single piece of equipment on the market for handling varied construction, maintenance and utility chores.

TRADE ASSOCIATIONS

ASTM Literature—The following publications are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103: Special Procedures for Testing Soil and Rock for Engineering Purposes (STP 479; $15.75); and Metric Practice Guide

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(E380 70; $1.25). . . . Articles of special interest are Fire Terms and Fire Tests, High Performance Fiber Composites, and Fiber Reinforcements for Structural Composites.

ACMA Metric Changeover—The Asbestos Cement Manufacturers' Association, London, England, completed preparation of the changeover program to metric dimensions affecting various asbestos-cement products.

ATI Activities—Reports on the General Meetings of the Asbestos Textile Institute contained data such as progress being made by the various standing Committees; quarterly reviews of the market for various grades of asbestos fiber; a discussion of the new Federal Occupational Safety and Health Act of 1970; and an explanation of the objectives of the newly-established Asbestos Information Association/North America. At the most recent meeting, John A. Bettes, Jr., author of the "History of the Asbestos Textile Industry in the United States" that is currently running in ASBESTOS, by acclamation, was appointed "Official Historian, Asbestos Textile Industry/USA."

CIM Books & Papers—The following books are available from the Canadian Institute of Mining and Metallurgy, 1117 Ste. Catherine Street West, Montreal 110, Quebec: Ore Reserves Estimation and Grade Control ($10.00); Structural Geology of Canadian Ore Deposits, Volumes 1 & 2 ($10.00 each); Mining in Canada ($10.00); Milling of Canadian Ores ($10.00); Geology of Canadian Industrial Mineral Deposits ($10.00); Ice Seminar ($10.00); and Geology and Tectonics of the Western Cordillera ($12.00). . . . Reprints of the following papers are obtainable from CIM at $2.00 per copy: Future of Computers in the Mining and Metallurgical Industries; Use of Mathematical Modeling in Developing Advanced Control Systems for Mining Industry Processes; Nature and Usefulness of Simulation as it Applies to Equipment Selection at an Open-Pit Mine; Automation of Asbestos Milling Circuits; U.S. Market for Canadian Minerals; An Outsider Looks at the Problems of Appraisal of Industrial Mineral Deposits; Environmental Control in the Asbestos Industry of Quebec; and Ore Reserve Estimation and Grade Control (papers presented at the 1967 Conference; $10.00 per set).

CRCA Publications—The Canadian Roofing Contractors Association, 1010 St. Catherine Street West, Montreal 110, issued technical Bulletins in its continuing series on Good Roofing, including: Confusion Concerning Insulated

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Steel Deck Constructions; Deflections; Exposure of Some Roofing Systems; Upside-Down Roofs; Roofing Over Steel Decks; Roof Mounted Equipment; and Explanatory Notes on the CRCA Specification Manual.

IMM Papers—Papers submitted for discussion to the members of the Institution of Mining and Metallurgy were: Logging the Mechanical Character of Rock; Selection of Open-Pit Excavating and Loading Equipment; and Design of Mills for Developing Countries. (Copies are available from the Editor of Transactions, c/o IMM, 44 Portland Place, London W1N 4BR, England.)

MAC Booklets—Two informative brochures obtainable from the Mining Association of Canada, 20 Toronto Street, Toronto 210, Ontario, are: Mining—What It Means to Canada 1970; and Facts & Figures—Mining in Canada 1970.

NHIC Study—Independent home improvement contractors were the subject of a pilot study made by the National Home Improvement Council. A report on the study may be had from the Council at 11 East 44th Street, New York, New York 10017.

NICA Report—Selected Advances in Insulation Technology was published by the Small Business Administration in close cooperation with the National Insulation Contractors Association, 8226 Fenton Street, Silver Spring, Maryland 20910.

QAMA Factual Data—The Quebec Asbestos Mining Association, 5 Place Ville Marie, Montreal 113, Quebec, reports, in "A Year of Continued Growth," that at current or moderately increased production rates, Canada has adequate asbestos ore reserves for at least the next 30-40 years.

SAIMM Proceedings—The Proceedings of the 1970 Symposium on the Theoretical Background to the Planning of Open-Pit Mines with Special Reference to Slope Stability are available at $35.70 from the Secretary, South African Institute of Mining and Metallurgy, P.O. Box 69019, Marshalltown.

Other Associations that received editorial coverage in this journal during the year were: Association of British Mining Equipment Exporters, Boston Insulation Contractors Association, Thetford Mines Branch of CIM, Eastern Atlantic States Insulation Contractors Association, Fluid Sealing Association, Friction Materials Standards Institute, and Grinding Wheel Institute.

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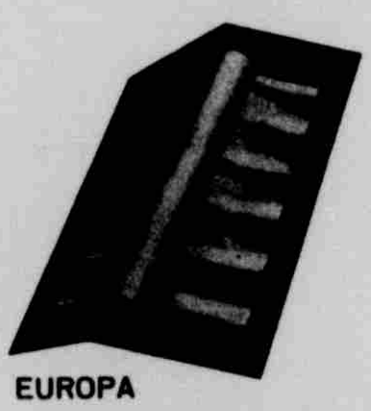
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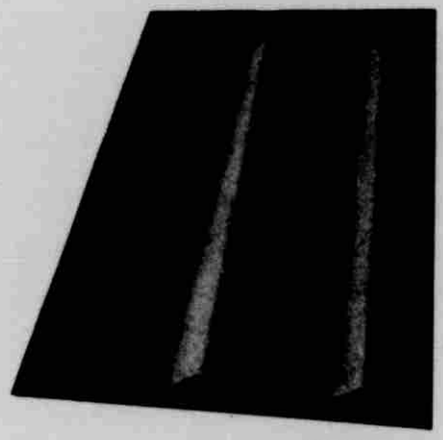


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STANDARDS

ASBESTOS announced the establishment of the Standards Council of Canada and advised of the action of the U.S. Department of the Interior concerning health and safety standards for U.S. metal and nonmetal mines. . . . In addition, this journal continued to list new or revised asbestos-related Standards as issued by the American Society for Testing and Materials, British Standards Institution, Canadian Government Specifications Board, Indian Standards Institution, and the National Fire Protection Association.

BOOKS & PAPERBACKS

The following publications are available either through this magazine or direct from the publisher or company, except as otherwise noted.

Handbook of Engineering Seismology—Bison Instruments, Inc., 3401 48th Avenue North, Minneapolis, Minnesota 55429.

1971 Survey of Mines—The Financial Post, 481 University Avenue, Toronto 2, Ontario, Canada ($9.00).

Asbestos: General Information, Recovery & Processing—A. W. Gentner Verlag KG, Postfach 688, 7 Stuttgart 1, West Germany ($5.60 plus shipping and handling charges).

1964-69 Statistical Summary of the Mineral Industry—Institute of Geological Sciences (order direct from Her Majesty's Stationery Office, London, England; £1.50).

1971 Mining Annual Review—The Mining Journal Ltd., 15 Wilson Street, Moorgate, London EC2M 2TR, England; $7.25).

1971 Bid List Directory—Product Promotions, 3960 Richelieu Road, Indianapolis, Indiana 46226; $25.00 postpaid).

Noyes Data Corporation, Noyes Building, Park Ridge, New Jersey 07656—Air Pollution Control Processes and Equipment 1968 ($35.00); Water Pollution Control and Solid Wastes Disposal 1969 ($35.00); and Fire Retardant Building Products and Coatings 1970 ($35.00).

Trans Tech Publications, P.O. Box 2981, Cleveland, Ohio 44116—Worldwide Directory for Mineral Industries, Education and Research ($35.00); Bins and Bunkers for

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World Wide CONSULTING SERVICES

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

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

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Handling Bulk Materials ($20.00); The Science of Rock Mechanics ($25.00); Engineering Geology and its Application in Civil Engineering Projects ($20.00); State-of-Stress Measurements in Rock Masses ($25.00); and Slope Stability in Soil and Loose Rock ($25.00).

PAPERS & ARTICLES

The articles and papers listed below are available on a loan basis from ASBESTOS, unless otherwise noted, and in most cases reprints are available direct from the stated source.

Canadian Mining Journal, Gardenvale, Quebec, Canada —Health Hazards of Dust Inhalation (Pneumoconiosis); Industrial Noise Control; Electrostatic Precipitation and a supplementary discussion on Cyclones; Fabric Filters; Wet Collectors; and Basic Information on Dry Centrifugal Collectors. (All papers should be ordered direct from CMJ.)

Construction Materials, c/o USSR National Public Library for Science and Technology, 12 Kuznetskii Moct, Moscow K-31, USSR—Optimization of the Composition of Asbestos Cement; Some Properties of Materials for Low-Temperature Thermal Insulation; Chemistry in Construction; The Nature of the Wear of Crushing Plates of Jaw Crushers with Complicated Motion of the Jaw; and Equipment for the Production of Asbestos-Cement Components. (All articles are written in Russian.)

Plastiques Modernes et Elastomeres, c/o Fibroplacim Societe Civile, 5 Rue de Prony, Paris 17e, France—Progress of Asbestos as a Reinforcement in Plastics (written in French). A copy of the same article, translated into German, is available from *Gummi Asbest Kunststoffe*, c/o A. W. Gentner Verlag KG, Postfach 688, 7 Stuttgart 1, West Germany.

Rudarski Institute, Postanski Pregradak 116, 11081 Beograd-Zemun, Yugoslavia—Basic Characteristics of Mineral Ore Resources in NR China (Bulletin of Mines); Safety and Economic Aspects of Ventilation of Mines with Several Principal Fans (Safety in Mines); and Yugoslavia's Mineral Economy in the Scope of International Distribution of Work (Bulletin of Mines). (All articles are written in Yugoslav, with English summaries.)

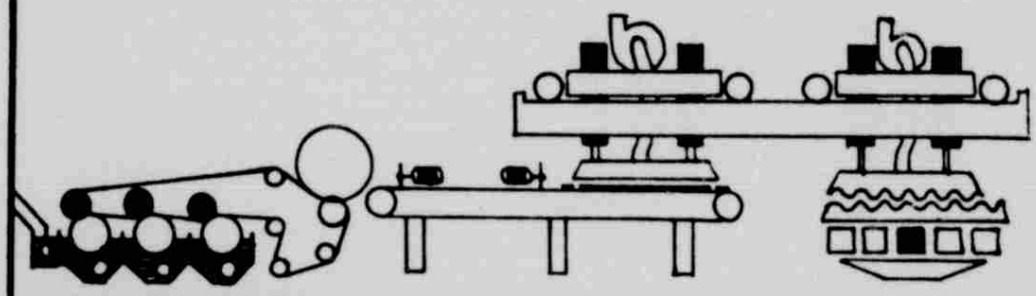
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GOVERNMENT PUBLICATIONS

AUSTRALIA

Commonwealth Bureau of Census and Statistics, Canberra—Mineral Exploration 1968-69; Mineral Production 1968-69.

Bureau of Mineral Resources, Geology and Geophysics, Canberra—Australian Mineral Industry, 1969 Review.

CANADA

Publications Office, Ontario Department of Mines & Northern Affairs, Parliament Buildings, Queen's Park, Toronto—Asbestos in Ontario, by M. A. Vos (Industrial Mineral Report No. 36, 1971; $1.00).

Quebec Bureau of Statistics, Quebec City—Asbestos Mines 1967-68 (Publication No. 3-1M).

Department of Energy, Mines & Resources, Ottawa—Asbestos 1969 (preprint from Canadian Minerals Yearbook 1969; 25c).

Dominion Bureau of Statistics, Ottawa—Asbestos Mines 1968 (Catalog 26-205; 50c); Products Shipped by Canadian Manufacturers 1969 (Catalog 31-211; 75c); Preliminary Report of Mineral Production 1969 (Catalog 26-203; 75c); Asbestos Products Manufacturers 1969 (Catalog 44-203; 50c); Preliminary Estimate of Mineral Production (Catalog 26-202; 25c).

Map Distribution Office, 615 Booth Street, Ottawa—Every Square Inch (tells how to read a topographic map; $1.25); Historic Canadian Map Reproductions (replicas of five maps that were significant in the history of Canada; $4.00).

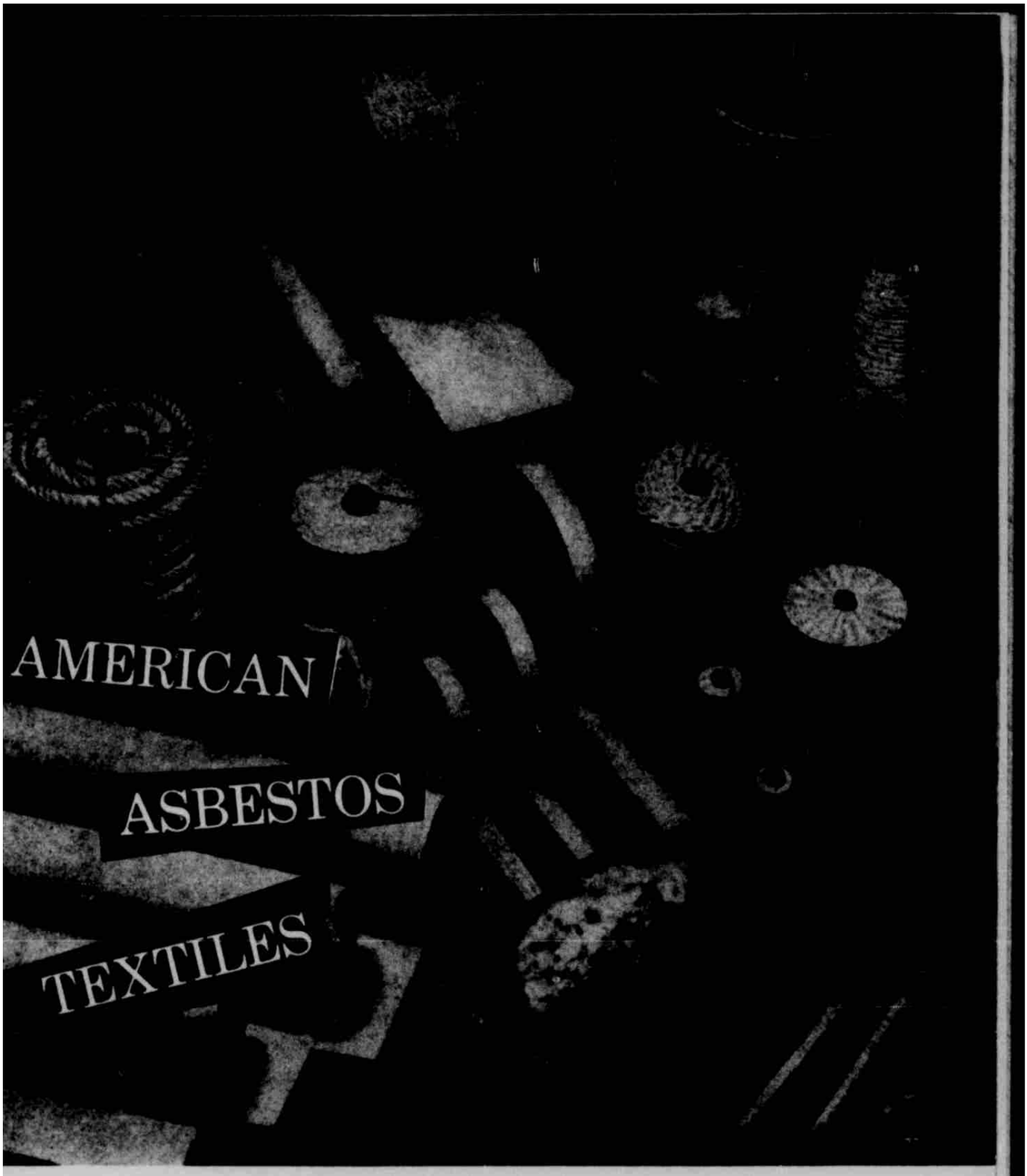
CYPRUS

Geological Survey Department, Nicosia—Annual Report for the Year 1969.

INDIA

Indian Bureau of Mines, Nagpur—Mineral Facts & Problems, No. 1, Asbestos, May 1969.

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AMERICAN ASBESTOS TEXTILE CORPORATION

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REPUBLIC OF SOUTH AFRICA

Chamber of Mines of South Africa, Johannesburg—Papers & Discussions 1968-69 (Association of Mine Managers of S.A.)

UNITED STATES

Commerce Today—biweekly periodical that reports on programs, achievements and services of the 20 agencies that make up the Commerce Department (make checks payable to "Superintendent of Documents" and place orders with Commerce Today, U.S. Department of Commerce, Washington, D.C. 20230; $20.00).

National Atlas of the United States of America—research and reference publication (U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia 22202; $100.00).

U.S. Bureau of Mines, Washington, D.C. 20240—Injury Experience and Worktime in the Mineral Industries 1969-70; Asbestos in 1969 (10c); Asbestos in 1970 (preliminary); Mineral Facts & Problems 1970 (Stock #2404-0665 & Catalog #128.3:650; order from Manager, Public Documents Distribution Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120; $10.75).

Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402—Nonmetallic Minerals (Except Fuels) Services & Miscellaneous Nonmetallic Minerals (Report MIC67(1) from 1967 Census of Mineral Industries, 55c); Reports on Four Asbestos-Producing States from 1967 Census of Mineral Industries (30c for Report MIC67(2)-3 on Arizona; 40c for Report MIC67(2)-5 on California; 35c for Report MIC67(2)-32 on North Carolina; 30c for Report MIC67(2)-44 on Vermont); U.S. Industrial Outlook 1971 ($5.00); Pulp, Paper & Board Mills from 1967 Census of Manufactures (Report MC67(2)-26A; 55c); Summary of Mining & Petroleum Laws of the World—Part I on Western Hemisphere (Catalog I28.27:8482; $1.25); Economic Potential of Mineral-Based Insulating Materials in Combating the Noise Problem in Residences (I.C. 8466; 35c).

AWARDS

Marion S. Badollet was awarded a Medal of Honor from the University of Missouri-Rolla for 50 years of "Re-

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search and Education."

The Asbestos Textile Sales Division of Raybestos-Manhattan received the first annual Focus on Excellence Award for contributing to R/M's growth and profitability in 1970.

Turner Brothers Asbestos was the recipient of the Queen's Award to Industry for 1971 for its overall export achievement and innovations in asbestos textile technology.

DEATHS

The passing of the following gentlemen was recorded during the year. Their friendship and leadership will be greatly missed by many in the Industry.

Paul Abbott, Director, The Flintkote Co.

Robert L. Clark, Chairman, Owner and Founder, Clark Asbestos Co. (March 27, 1971).

Arved Jefferson Essary, retired Superintendent, Mundet Cork Corporation (July 6, 1971).

Kenneth F. MacLellan, Chairman of the Board, Unarco Industries, Inc. (August 31, 1971).

Walter E. Montgomery, retired Safety Director, Quebec Asbestos Mining Association (February 1, 1971).

Emile L. Rimbault, Jr., Director of Advertising and Public Relations, American Smelting & Refining Co. (March 30, 1971).

Ralph B. Smith, Raybestos-Manhattan, Inc. at North Charleston, South Carolina (January 21, 1971).

Round Up . . . .

Just to complete a listing of all items included in ASBESTOS during 1971, special sections of the magazine not previously mentioned in this Review are: Excerpts from Annual Reports of Asbestos Companies; Asbestos Stock Quotations; Calendar of Events; Construction News; Greetings from Industry Leaders; U.S. Government Technical Reports; Latest Asbestos Prices; Market Conditions concerning General Business, Asbestos Fiber and Asbestos Manufactured Goods; Men on the Move; Motor Vehicle Factory Sales; New Asbestos Patents; Production-Imports-

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Exports; Remember When?; Retirements; and Trade/ Investment Opportunities.

1971 has indeed been an active year, a productive year, a challenging year for the Asbestos Industry and all indications point to continued progress. Please send ASBESTOS your "news notes" for inclusion in its pages, thus keeping your name, products and services before the Asbestos Industry and assisting in the maintaining of a complete "continuing record" of the Industry's "history in the making!"

Season's Greetings — and Best Wishes

for a Happy, Healthy, Progressive

& Prosperous New Year!

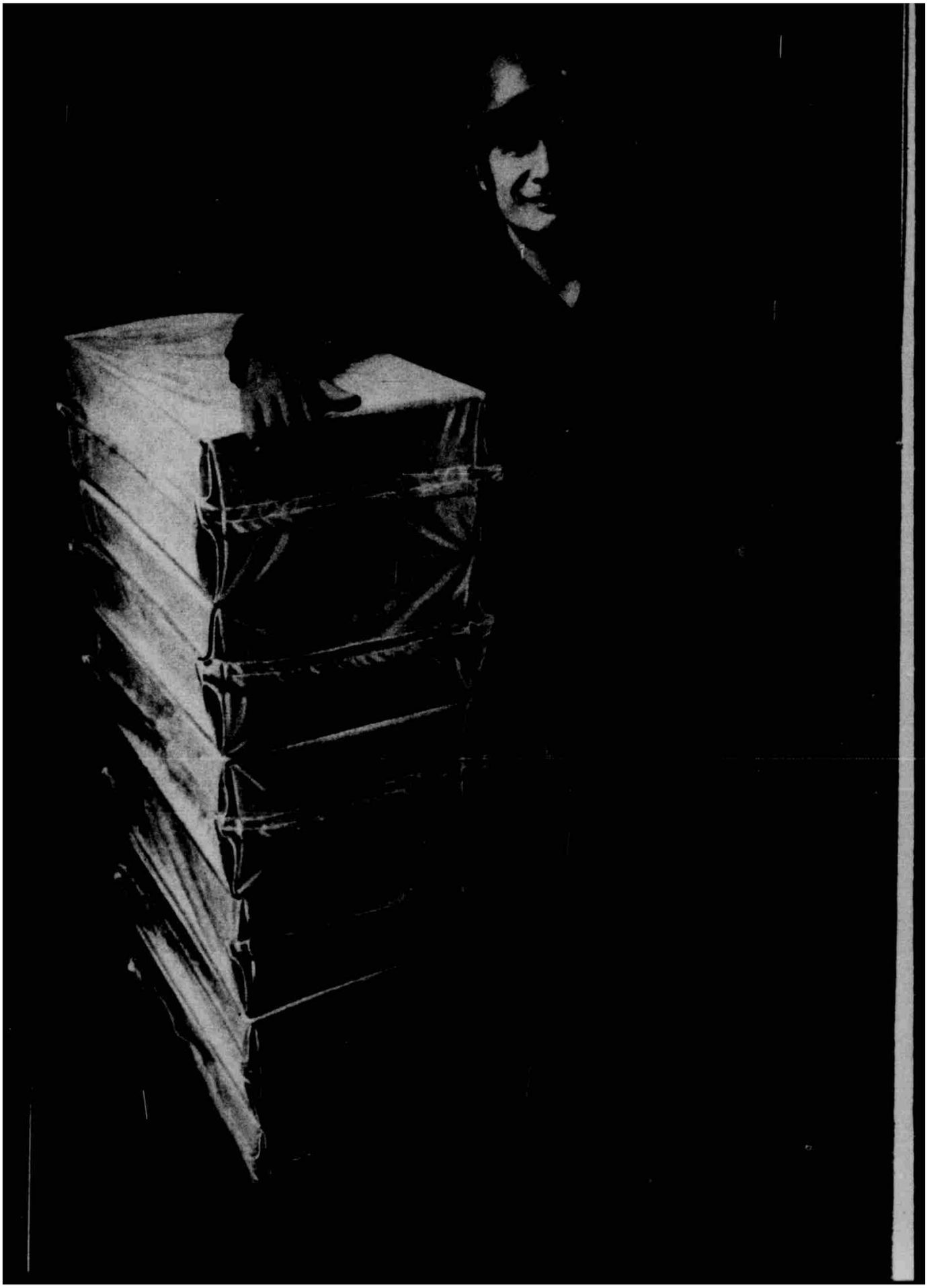
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What we're really saying is that 'Fabrene' has what you want and what your product needs: It has extra-ordinary strength, built right into its very fabric; and knowledgeable technicians to back it all up with suggestions and ideas to help you and your supplier make the most of its many advantages. So next time you order asbestos, ask your supplier to send it to you bagged in coated 'Fabrene' oriented polyolefin material. It's stacked in your favour.

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THE COVER

During the Holiday Season, we seem to be more aware of other peoples and are more prone to endeavor to understand those cultures, policies and beliefs that are different from our own. It is a time when the world is especially mindful of the significance of brotherhood.

This principle is practiced year-round by Lake Asbestos of Quebec Ltd. at its mining operation at Black Lake, Quebec, Canada. LAQ has available the flags of 23 different countries and when a citizen of one of these nations visits the mine, the flag of his country is there to welcome him, hoisted atop one of the two 30-foot flagpoles situated near the company's main office. The other flagpole is reserved for the Canadian flag which is flown whenever the mine is in operation.

In the photograph to the left on the front cover, surface foreman and keeper of the flags Reynald Legendre is hoisting the Japanese flag in honor of a group of visiting asbestos buyers from that country. The photograph to the right shows Mr. Legendre readying the flag of LAQ's parent company, American Smelting and Refining Company.

Lake Asbestos is to be commended for maintaining such a fine custom, one that certainly generates a feeling of friendliness. May the nations of the world learn from such an endeavor!

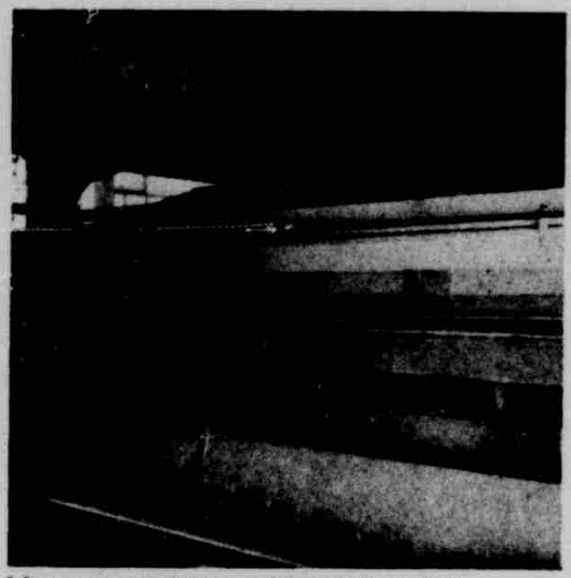
[The front cover photographs were contributed through the courtesy of the Quebec Asbestos Mining Association.]

CONSTRUCTION NEWS

CUMULATIVE construction contract value for the *First Ten Months of 1971* totaled $67,122,087,000: Nonresidential, $21,619,418,000, up 3%; Residential, $28,938,103,000, up 39%; Nonbuilding, $16,564,566,000, up 4%. The ten-month total for 1971 was 16% above that for the same period in 1970. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

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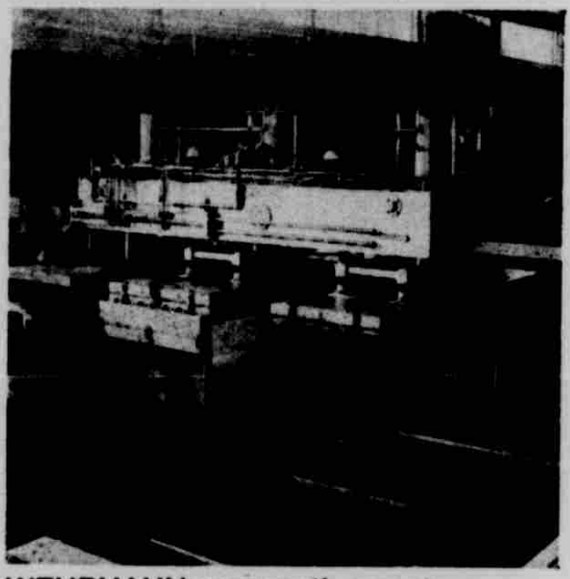
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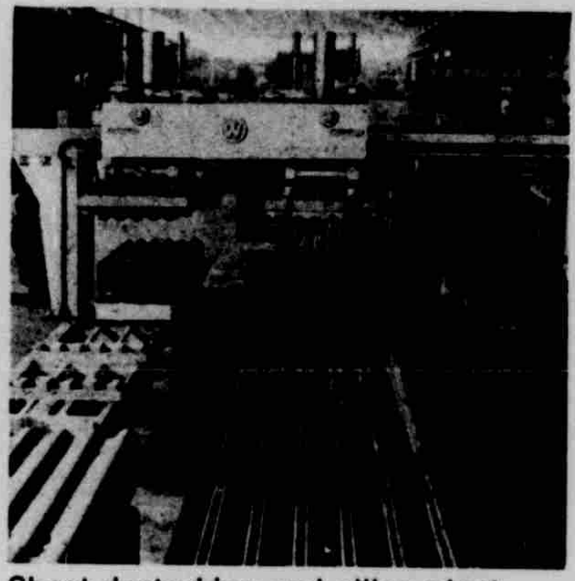
Mazza machine without top felt



Automatic sheet machine



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What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!

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IMPORTS - EXPORTS

IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census — Short Tons

Unmanufactured Asbestos:	JUL. 1971	AUG. 1971
Amosite, Republic of South Africa	1,214	2,032
Crocidolite (Blue), South Africa	680	820
Chrysotile, Crude, Canada	9	..
Chrysotile, Spinning Fibers, Canada	1,045	1,163
Chrysotile, Other, Canada	54,888	51,244
Other Crudes & Fibers, Canada	166	190
Finland	929	201
Mozambique	11	..
South Africa	600	..
Swaziland	190	..
	59,732	55,650

July unmanufactured asbestos imports were valued at $7,271,859.
August unmanufactured asbestos imports were valued at $6,652,567.

Manufactured Asbestos Goods:		JULY 1971	
Asbestos Yarn, Slivers, etc.	Lb	287,175	$ 285,608
A-C Pipes, Tubes & Fittings	Lb	3,719,017	177,086
Asbestos-Cement Articles, Other	Lb	1,337,459	235,350
Asbestos Articles, Other		..	219,521
			$ 917,565

		AUGUST 1971	
Asbestos Yarn, Slivers, etc.	Lb	285,779	$ 242,519
A-C Pipes, Tubes & Fittings	Lb	1,799,200	102,379
Asbestos-Cement Articles, Other	Lb	1,427,006	213,096
Asbestos Articles, Other		..	201,599
			$ 759,593

ASBESTOS

welcomes the following new advertiser:

Leripa
(Leder- und Riemen-Patentverwertungsges mbH)
Page 25

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EXPORTS FROM U.S.A.

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

Unmanufactured Asbestos:

Crude & Spinning Fibers	s. tons	466	$ 97,112
Non-Spinning Fibers	s. tons	531	94,451
Waste & Refuse	s. tons	1,573	144,310
		2,570	$ 335,873

Manufactured Asbestos Goods:

A-C Shingles & Clapboard	Lb	2,454,312	$ 241,050
Other Asbestos-Cement Articles	Lb	3,750,100	662,391
Asbestos Gaskets	Lb	84,300	127,187
Asbestos Packing	Lb	252,898	584,900
Asbestos Heat or Sound Insulation		..	293,637
Asbestos Textiles & Yarns	Lb	949,688	226,049
Asbestos Protective Clothing		..	7,692
Mfrs. Other Than Friction Materials		..	182,089
Clutch Facings & Linings for Auto. Use	No	156,305	125,096
Clutch Facings & Linings, Other	No	48,496	27,066
Brake Linings for Automotive Use	Lb	447,994	339,767
Asbestos Brake Linings, Other	Lb	208,425	164,464
			$ 2,981,388

EXPORTS FROM CANADA

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

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	860	27,142	14,612
Eastern Europe	..	7	1,397	542
Middle East	..	80	3,285	359
Africa	..	..	399	980
Asia	..	167	8,716	10,175
Oceania	..	1	4,287	1,701
So. & Cen. America & Antilles	..	138	8,904	2,366
United States	9	1,037	19,456	36,994
	9	2,290	73,586	67,729

The total amount of unmanufactured asbestos exported in *July 1971* was 143,614 short tons, valued at $20,552,000.

Manufactured Asbestos Goods:

Asbestos Brake Lining & Facings		$ 83,000
Asbestos-Cement Building Materials		158,000
Asbestos Basic Products, Other		231,000
		$ 472,000

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BIRTHDAY GREETINGS TO . . .

Walter D. Baldwin, Vice President-Administration, Uniroyal, Inc., New York City, January 16.
P. C. McCarroll, Superintendent, Durabestos Works, Wunderlich Ltd., Rosehill, N.S.W., Australia, January 16.
John K. Whittaker, Executive Vice President, 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.
T. F. Cathey, Director of Research & Development, Raybestos-Manhattan, Inc., Passaic, New Jersey, January 22.
K. W. Sulser, General Manager, Asbestos Group, Thermoid Division, H. K. Porter Co., Inc., Charlotte, N.C., January 22.
J. Zaha, Works Manager, Bennettsville Works, Thermoid Division, H. K. Porter Co., Inc., Bennettsville, S.C., January 23.
John Arthur 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 Research & Engineering Center, Manville, New Jersey, January 27.
Herbert S. Hirschfeld, Manager, Standard Asbestos Company, New York City, January 27.
T. F. Ferderber, Mine Superintendent, Clinton Mine, Cassiar Asbestos Corp. Ltd., Clinton Creek, Yukon Territory, Canada, January 28.
J. G. Mackeurtan, Chairman & Managing Director, Cape Asbestos South Africa (Pty) Ltd., Johannesburg, S. Africa, January 29.
Nelson Bain, President, Asbestos Erectors of Canada Ltd., Montreal, Quebec, Canada, February 1.
A. R. Morgan, Jr., Vice President-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-Industrial Products, GAF Corporation, New York City, February 3.
Clarence H. Sigler, General Manager-Uniroyal Fiber & Textile & 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.

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Dudley T. Colton, Sr., Senior Vice President, International Divisions, Johns-Manville Corporation, New York City, February 8.
A. Joseph Fontana, Departmental Vice President-Personnel, Uniroyal, Inc., New York City, February 8.
R. H. Dent, Executive Chairman, The Cape Asbestos Company Ltd., London, England, February 9.
C. Fred Workman, Vice President-Marketing, Nicolet Industries, Inc., Ambler, Pennsylvania, February 9.
Clark H. Harrison, First Vice President, The Clark Asbestos Company, Cleveland, Ohio, February 10.
Stanley E. Price, Vice President-Marketing & President of Certain-teed Badger, Piping & Plastics Industries, Certain-teed Products Corporation, Valley Forge, Pennsylvania, February 10.
John K. Locher, Assistant Secretary, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, February 11.
R. A. Wells, Joint Managing Director, Turner Brothers Asbestos Company Ltd., Spotland, Rochdale, England, February 11.
James D. Moran, President & Chief Executive Officer, The Flintkote Company, White Plains, New York, February 12.
Herbert L. Levine, President, Asbestos Products Manufacturing Company, Newark, New Jersey, February 13.
A. B. Marchant, Vice President-Employee Relations, Johns-Manville Corporation, New York City, February 13.

ASBESTOS STOCK QUOTATIONS

CLOSE—NOVEMBER 23, 1971

Abitibi Asbestos	*$2.50	Grace	25⅜
Advocate Mines	*$1.60	Gulf & Western	22
Allied Mining	*$3.05	G&W (pfd 3.50)	94
Asarco	16½	G&W (pfd 3.87)	56
Armstrong Cork	38½	G&W (pfd 5.75)	67¾
Armst Cork (pfd 3.75)	55½	Illinois Central	32½
Asbestos Corporation	*$28.75	Ill. Central (pfd 3.50)	58
Bendix	38¼	Johns-Manville	37⅝
Bendix (pfd 3)	58	Maremont	24⅜
Carlisle	17⅛	National Gypsum	17¾
Cassiar Asbestos	*$17.50	Natl Gypsum (pfd 4.50)	70½
Cerro Corporation	11⅝	Pacific Asbestos	*$1.40
Certain-teed	36⅞	Panacon	3⅜
C-teed (pfd .90)	36	Pathfinder	*$83.00
Conwest	*$7.50	Porter (pfd 5.50)	68½
Flintkote	28	Raybestos-Manhattan	23¼
F-kote (pfd-A 4.50)	80	Royal Industries	11
F-kote (pfd-B 2.25)	39½	Unarco	13
GAF Corporation	18¾	Union Carbide	39
GAF (pfd 1.20)	24⅜	Uniroyal	15¾
Garlock	18½	Uniroyal (pfd 8)	101½
		United Asbestos	3½

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

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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.

British 1,242,124—To improve the aging properties of a mixture of crystalline polypropylene and asbestos there is added a synergistic combination of a phenolic anti-oxidant, dioctyl disulfide, calcium stearate and a condensation product of an aldehyde or ketone with an alkyl phenol; assigned to Farbwerke Hoechst A.G., August 11, 1971; 5 pages.

British 1,243,026—A foaming, fire-retardant composition for application in thin coatings to wood, steel or concrete structural members comprises a pre-condensate of urea and dicyandiamide with formaldehyde, an ammonium salt of phosphoric acid, dextrin or starch, and a mixture of glass wool and asbestos flour or floats; assigned to Chemische Werke Albert, August 18, 1971; 6 pages.

Canadian 877,850—In the manufacture of a wear ring bearing, a preform composed of Chrysotile asbestos, a phenolformaldehyde resin, nitrile rubber and powdered graphite is molded to desired shape, and the shape heated to 250-280°F to cure the resin; W. S. Josephson; assigned to Greene, Tweed & Company, Inc., August 10, 1971; 14 pages.

Canadian 878,007—A composition for forming brake linings that show good resistance to "fade" comprises (1) 40-88% by weight of Chrysotile asbestos shorts, (2) 5-25% of coal dust or coke dust, and (3) 12-30% of polybutadiene in which at least 30% of the butadiene repeating units have a pendant vinyl group having a molecular weight of at least 12,500 and having been catalyst-cured to a Shore D hardness of at least 40; J. M. Willis & W. R. Conard; assigned to Firestone Tire & Rubber Company, August 10, 1971, 19 pages.

Canadian 878,477—In the preparation of an amorphous hydrous siliceous adsorbent, natural asbestos or wollastonite is reacted at a temperature of 50-100°C with hydrochloric acid, and the resulting silica solids washed with water, dried and activated by heating; E. M. Flanigen; assigned to Union Carbide Corporation, August 19, 1971; 22 pages.

U.S. 3,597,514—In the manufacture of a fuel cell diaphragm, asbestos fiber is soaked in a caustic solution, the treated fiber formed into sheets and the sheets heated at 450-550°C to strengthen the fibers—an organic binder is not needed; P. Jager; assigned to Siemens A.G., August 3, 1971; 2 pages.

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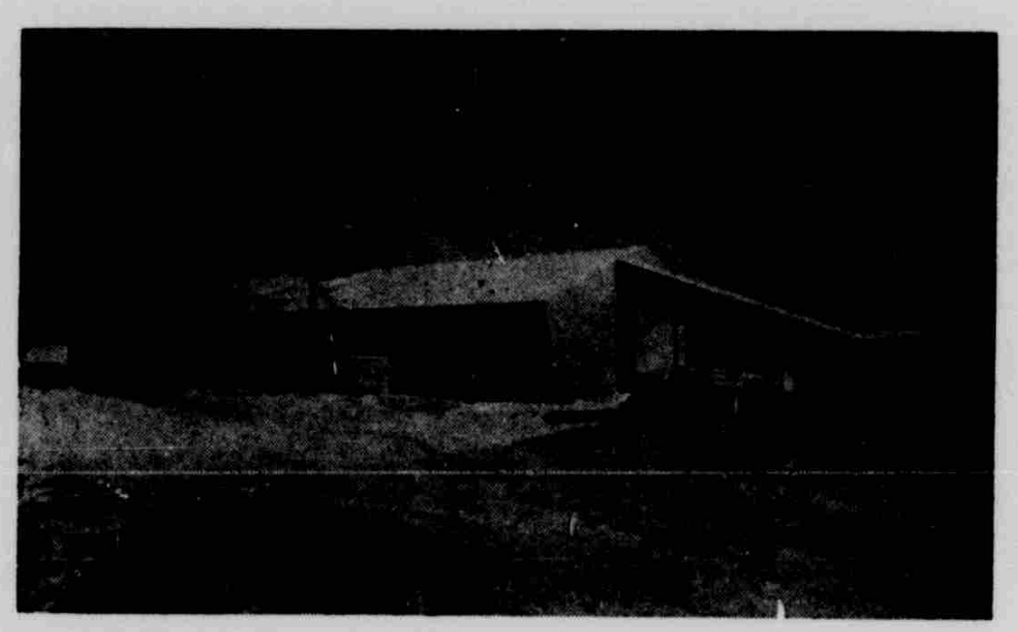
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CALENDAR OF EVENTS

Home Improvement & Remodeling Exposition—National Remodelers Association; Fontainebleau Hotel, Miami Beach, Florida; *January 6-8.*

Sampling of Mineralogical & Geological Materials—joint meeting between the Institution of Mining and Metallurgy and the Applied Mineralogy and Geochemistry Groups of the Mineralogical Society; Imperial College, London, England; *January 7.*

ASTM Committee E-18 on Sensory Evaluation of Materials & Products—Schrafft's Motor Inn, Ft. Lauderdale, Florida; *January 13-14.*

ASTM Committee C-24 on Building Joint Sealants—Statler Hilton Inn, Raleigh, North Carolina; *January 23-25.*

National Plant Engineering & Maintenance Show & Conference—Convention Center, Philadelphia, Pennsylvania; *January 24-27.*

Measurement Systems Engineering Seminar—Arizona State University, Tempe, Arizona; *January 24-28.*

BAU 72—International Trade Exhibition of Building Materials, Structural Elements and Interior Finishing; Munich Fair Grounds, Munich, West Germany; *January 29-February 6.*

Asbestos Textile Institute—General Meeting; Mills Hyatt House, Charleston, South Carolina; *February 2-3.*

National Roofing Contractors Association—85th Annual Convention; International Hotel, Las Vegas, Nevada; *February 7-11.*

Packaging Machinery Manufacturers Institute—Spring Meeting; Acapulco, Mexico, *February 7-12*; continued in Mexico City in conjunction with the opening of the U.S. Trade Center, *February 12-15.*

ASTM Committee Week—including Committees C-4 on Clay Pipe and E-7 on Nondestructive Testing; Riviera Hyatt House, Atlanta, Georgia; *February 13-18.*

Association of Asphalt Paving Technologists—47th Annual Meeting; Sheraton-Cleveland Hotel, Cleveland, Ohio; *February 14-16.*

Fluid Sealing Association—General Meeting; Regency Hyatt House, Atlanta, Georgia; *February 17-18.*

Canadian Roofing Contractors Association—13th Annual National Convention and Trade Show; Nova Scotian Hotel, Halifax, Nova Scotia; *February 21-25.*

ASTM Committee Week—including Committee D-9 on Electrical Insulating Materials; Shoreham Hotel, Washington, D.C.; *March 5-10.*

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NEWS

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Remember When?

(December 1921 ASBESTOS)

Mr. R. L. R. Wild, of the Waite-Wild Asbestos Company, contributed a highly informative article on Asbestos Mattress Coverings, detailing their construction and their advantages in insulating such equipment as steam locomotive boilers and marine-type boilers. The use of Blue asbestos for such Coverings was highly recommended.

At the November 17th meeting of the American Chemical Society, Philadelphia Section, Dr. E. R. Weidlein, Director of the Mellon Institute of Industrial Research, was speaker of the evening, choosing as his topic "85% Magnesia Research as Conducted by the Mellon Institute."

Announcement was made of the formation of The Philadelphia Asbestos Company, to act as distributors and contractors for asbestos and magnesia products. Officers of the company were John J. Liner, President; E. R. Teubner, Jr., Vice President; and N. P. MacMullan, Secretary-Treasurer. All these gentlemen were formerly connected with the Philadelphia Office of the Keasbey & Mattison Company.

It was reported that G. W. Ross, President of the Asbestos Corporation of Canada, had resigned as Chairman of the Montreal Harbor Commission to become a candidate for the St. Antoin Division, Montreal, as a Conservative in the coming Dominion election.

W. A. RuKeyser, a recognized authority on the mining and milling of asbestos, was reported to have completed his work as Engineer-in-Charge for the Jacob A. Jacob interests (Asbestos Mines, Ltd., and Black Lake Asbestos and Chrome Company) and was retained as consulting engineer for New Dominion Copper Company, with offices in New York and properties at Globe, Arizona, and Chihuahua, Mexico.

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FRONT COVER ILLUSTRATIONS—1971

July—a view of National Gypsum Company's asbestos operation at Thetford Mines, Quebec, Canada.

August—asbestos cloth (L-8610), manufactured by the Asbestos Textile Division of Raybestos-Manhattan, Inc., is the base textile in the safety clothing protecting crash crewmen as they battle a roaring aviation gas blaze ignited in the hulk of an attack aircraft.

September—the new, improved D'CENTEGRATOR Pulverizer, manufactured by Simplicity Engineering Company; a full description of the new design and how it is successfully used in the milling of asbestos ore was included in the September issue.

October—a comparison of Calidria Asbestos Open Fiber and Pellets; Union Carbide Corporation is the sole source of pelletized asbestos and details of the pellets and other Calidria products were given in the October number.

November—mounting asbestos fiber in a micro-tensile testing machine to measure its tensile strength; in use at the Research Laboratory of Cape Asbestos Fibres Ltd.

December—hoisting the flag of Japan in honor of a group of Japanese asbestos buyers visiting Lake Asbestos of Quebec Ltd.



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FOR FRICTION MATERIALS

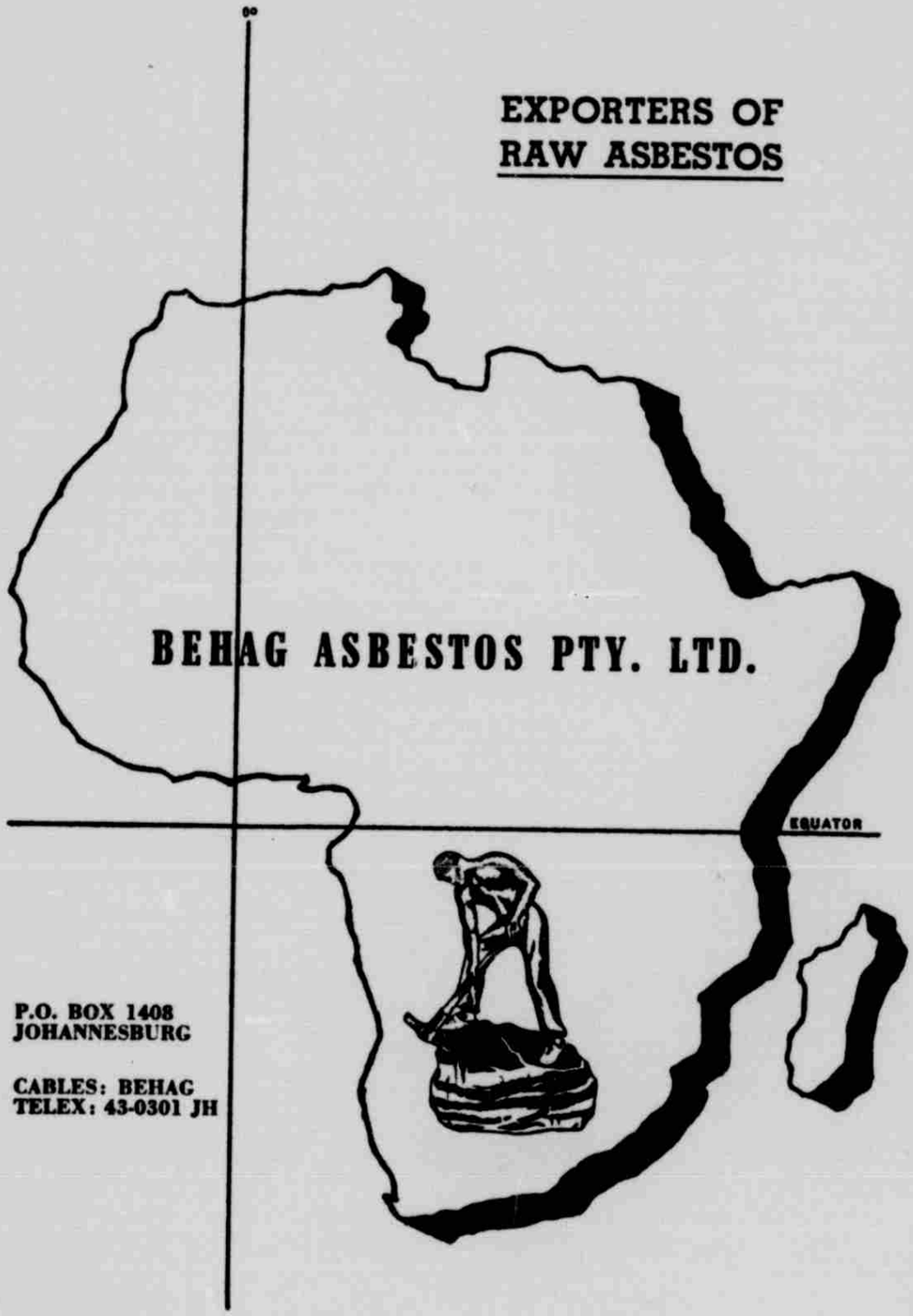
POLYREZ COMPANY, INC.

SOUTH COLUMBIA ST. AND RAILROAD

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Andreas Kufferath

Leripa (Leder- und Riemen-
Patent-verwertungsges mbH)
Lynn Macleod

National Gypsum Co.

Pacific Asbestos Corporation
Personal Environment Systems
C. J. Petrow & Co. (Pty) Ltd.
Polyrez Co.
Putten's Asbestos Corporation

The R.C.M. Co.
Raybestos-Manhattan, Inc.
Riva Calzoni S.p.A.
Frank G. Ruggles Co. Inc.

Scandura Ltd./The BBA Group
Scapa Textiles Ltd.
V. M. Schlutter & Co.
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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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"Calidria" Asbestos Pellets (October, page 8)

EXPANSIONS

Everite Enlarges Factory (February, page 16)

FELTS FOR THE A/C INDUSTRY

The Birth of Scapa Textiles Ltd. and the Development of Felts for Asbestos-Cement Machines (August, page 10)

FIBER CONVEYING & MILLING

Pneumatic Conveying and Bulk Purchases: Profit Combination for the Asbestos Industry (March, page 8)
The Simplicity D'CENTEGRATOR Pulverizer (September, page 10)

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Outlook for Asbestos is Good (April, page 22)

INDUSTRIAL HEALTH/POLLUTION CONTROL

Pollution: A Realistic Appraisal (February, page 14)
Control of Asbestos Dust in Japan (March, page 18)
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U.S. ASBESTOS TEXTILE INDUSTRY (HISTORY)

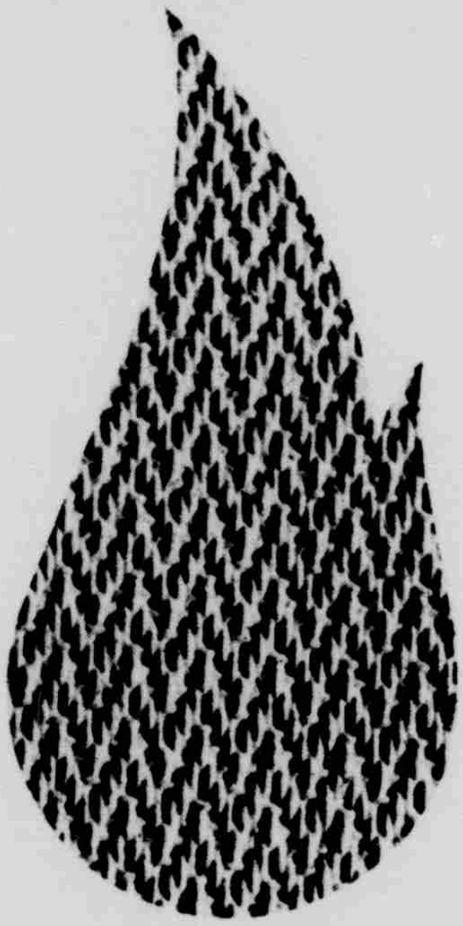
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Next Issue — Greetings from Industry Leaders

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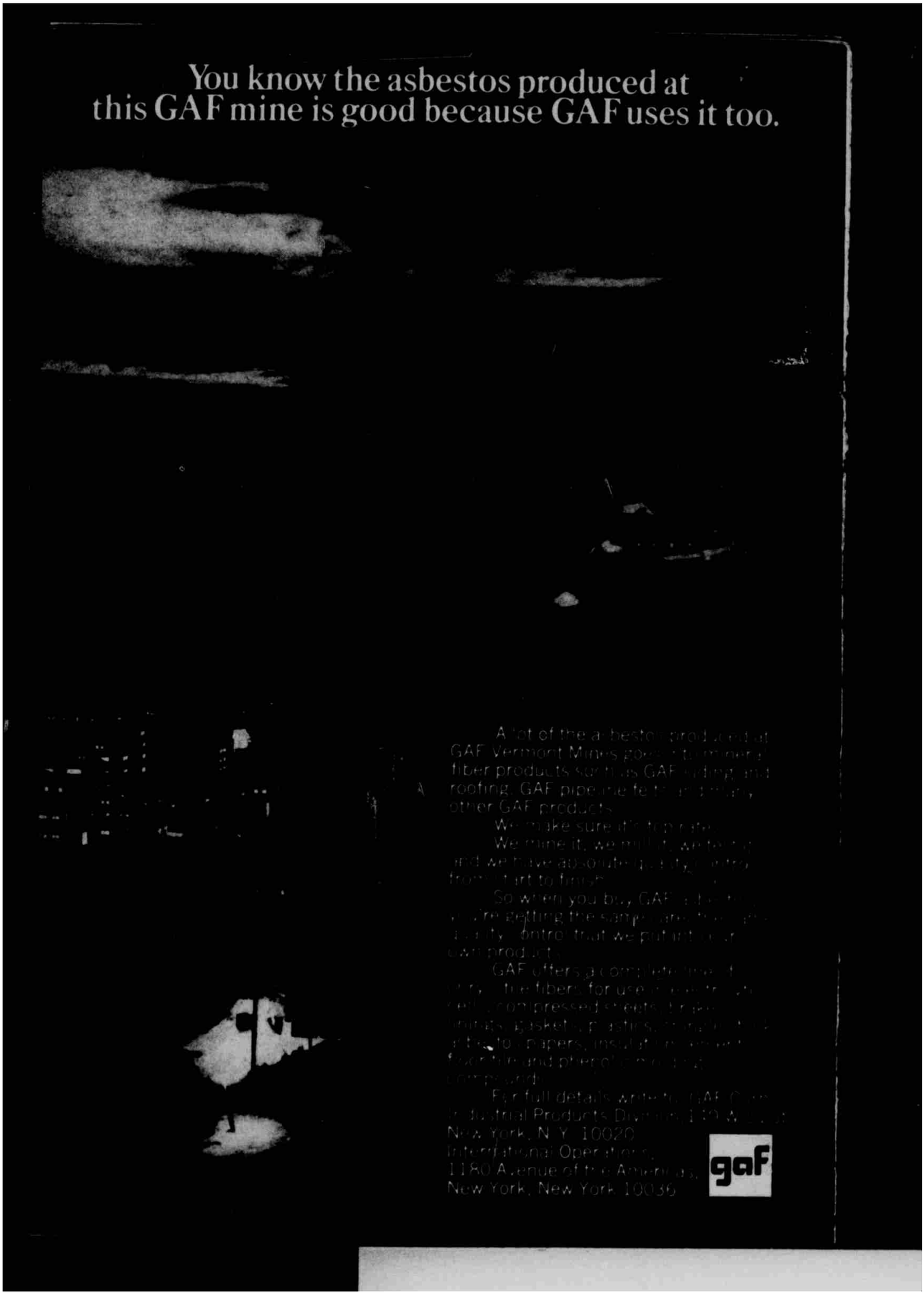
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