December 1972

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A REVIEW OF '72

INDUSTRIAL HEALTH & ENVIRONMENTAL CONTROL

UNITED STATES

On June 7, 1972, the Occupational Safety and Health Administration announced a new standard for employee exposure to asbestos dust, to be in effect from *July 7, 1972*, and limiting the 8-hour, time-weighted average airborne concentration of asbestos dust to which employees are exposed to 5 fibers per milliliter greater than 5 microns in length. Concentrations above 5 fibers but not to exceed 10 fibers per milliliter are permitted up to a total of 15 minutes in an hour for up to 5 hours in an 8-hour day. In addition, as of *July 1, 1976*, time-weighted average concentrations of asbestos fibers longer than 5 micrometers will not be allowed to exceed 2 fibers per cubic centimeter of air. A ceiling concentration of 10 fibers is not to be exceeded at any time. Some of the other provisions of the standard cover technological controls, appropriate work practices, suitable personal protective equipment, the maintenance of records of personal or environmental monitoring and the provision of medical examinations.

Briefly, among the events that lead to the issuance of the new standard were the listing of asbestos as a hazardous air pollutant on March 31, 1971; proposed national emission standards announced by the Environmental Protection Agency on December 7, 1971; and the Temporary Emergency Standard for Exposure to Asbestos Dust put into effect as of December 7, 1971, by the U.S. Department of Labor. Public hearings were held giving interested parties opportunity to submit supportive scientific data favoring or opposing any portion of the proposed and emergency standards.

Some asbestos products manufacturers feel the stringent "2 fiber" limitation set for 1976 may pose extreme financial burden, but it is too early to tell whether or not the standard can be met both technically and economically. Of significance is the comment voiced by a spokesman for Johns-Manville Corporation in that there is still no credible scientific evidence that establishes the need for a 2-fiber standard. In support of this view are some of the conclusions drawn from a study by

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THE COVER

A single Amosite fiber in asbestos cement, magnification X1050, having a maximum cross section of about 50 micron. The cleavage lines on the sides of the fiber show clearly. The surrounding hardened cement paste shows little crystal structure, though there is evidence of some rudimentary close packed flakes. The picture was supplied by Cape Asbestos Fibres Ltd. The next issue's front cover will show Chrysotile fiber magnified 1100x.

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Asbestos

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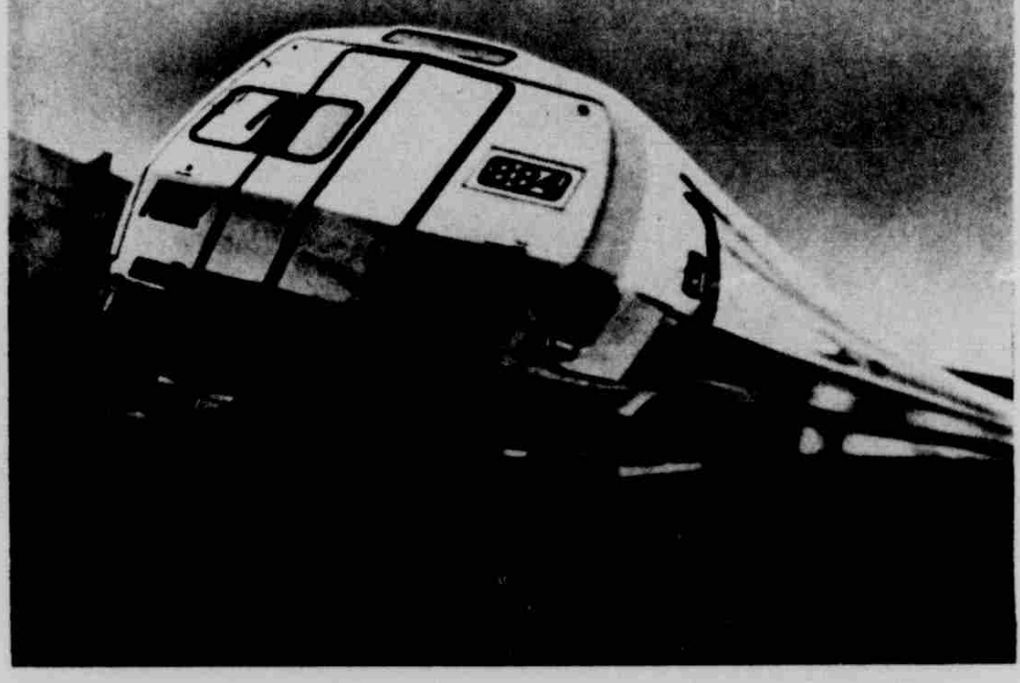
At speeds of up to 100 mph, Amtrak's New York-Washington, D.C. Metroliner needs all the stopping power it can get. So hard-working asbestos is used in the brake shoes on this cannonballing express.

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the Committee on Biologic Effects of Atmospheric Pollutants, National Research Council: (1) the hypothesis that asbestos fibers act as cofactors or carriers of carcinogens is attractive, but as yet unproved; (2) at present there is no evidence that the small numbers of fibers found in most members of the general population affect health and longevity; (3) analytic methods and epidemiologic data are not yet adequate for the development of an ambient air standard, but emission controls are needed and appear to be feasible.

The practice of spraying asbestos for purposes of insulation is pretty much at a standstill in the U.S., having been banned in several major cities throughout the nation.

The asbestos industry in the U.S. has spent $100 million in the last decade to implement dust control programs and probably will spend at least another $100 million to meet the exposure standards for asbestos dust announced by OSHA. This was reported by I. H. Weaver, Corporate Director-Environmental Control for Raybestos-Manhattan, Inc., at the Fourth Annual Technical Symposium sponsored in November by the Southern California Section of the American Industrial Hygiene Association. R/M is a member of the Asbestos Information Association/North America and much of Mr. Weaver's talk was based on technical information provided by AIA/NA. The Association is comprised of 19 major suppliers of asbestos in the U.S. and serves as the industry's spokesman.

ELSEWHERE IN THE WORLD

Control measures are being taken throughout the entire Asbestos Industry. One case in point was recorded in ASBESTOS—the installation of a dust-collecting unit at the Beta Asbestos Mine in the Gwanda District of Rhodesia. Tests revealed the chamber collected 43.98 tons of dust during a 7-day period and its total resistance was a mere 3 mbar (1.2″ water gauge) with no adverse effect on existing mill fans or motor efficiency.

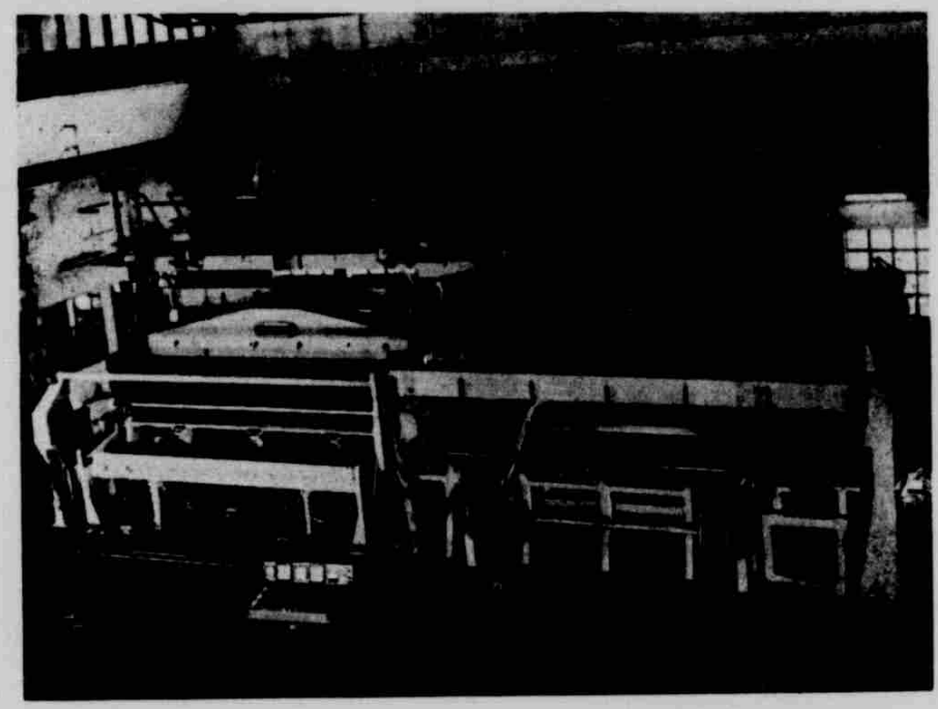
The National Research Institute of Occupational Diseases, Johannesburg, issued a report on the Asbestosis Research Project carried out in 1970 by the Pneumoconiosis Research Unit of the Medical Research Council of South Africa. One of the highlights of the project was the start made to determine the relationship between cumulative dust exposure at asbestos mines and the eventual development of Asbestosis. Of special interest was the indication that although the asbestos needle is fibrogenic, the coating of an asbestos body may well be a protective substance (derived from the lung) which prevents the fibrogenic action.

Half of the workers in the asbestos industry in Great Britain will have the opportunity during the next two years to voluntarily participate in a survey to be taken by the Medical

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Services Division of the Department of Employment, to learn of the history of exposure to different asbestos dusts and to provide a sound basis for future preventive measures. The survey is being carried out in cooperation with the Asbestosis Research Council and the Ministry of Defence (Navy).

All in the Industry are closely watching the activities and recommendations of the Insulation Industry Hygiene Research Program, under the directorship of Irving J. Selikoff, M.D. From quarterly progress reports issued by IIHRP, we have learned of many things of interest, such as the joint effort by IIHRP, the U.S. Navy, the Department of Labor and insulation manufacturers and contractors to control shipyard asbestos dust exposures; an effective, economical dust collector for use with band saws and other powered equipment; disposable respirators that provide respiratory protection for asbestos workers; and findings from a survey of dust counts on construction jobs.

Numerous pieces of pertinent literature were announced in ASBESTOS including an article by W. P. Howard on the use and safety of sprayed asbestos; a control and safety guide from the Asbestosis Research Council on the cleaning of premises and plant in accordance with the Asbestos Regulations; and a comprehensive folder published by the Quebec Asbestos Mining Association titled "Asbestos & Your Health" that contains the answers to questions people are asking about the subject. "Environmental Law" is the theme of two volumes authored by Prof. W. Reitze, Jr., covering the major pollution problems and the problems of transportation, energy production, etc. ($16.95 per volume; $30.20 for the set).

U.S. technical documents obtainable from the National Technical Information Service, Springfield, Virginia, that are concerned specifically with asbestos in the atmosphere are PB198581—Airborne Asbestos, PB209477—Development of a Rapid Survey Method of Sampling and Analysis for Asbestos in Ambient Air, and PB209510—Criteria for a Recommended Standard/Occupational Exposure to Asbestos. Also of importance is PB210561—Systems Analysis Study for Research and Development of Respiratory Devices.

Regulations governing Federal testing and approval of all respiratory protective devices used in mines were consolidated and revised by the Departments of the Interior and of Health, Education and Welfare. The regulations were listed in the Federal Register of March 25, 1972, and went into effect 60 days later.

A Seminar on Asbestos was sponsored in April by the Fine Particles Research Department of the Illinois Institute of Technology Research Institute, Chicago. On a wider scope, a major worldwide congress on pollution engineering, coupled with an international exposition of pollution control equipment took place early this month in Cleveland, Ohio.

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ASBESTOS FIBRES

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As with any new and major event, new businesses are created as a direct result. The health of those working with asbestos is no exception and a variety of mobile health units are now or soon will be in operation. Two such companies were welcomed this year as new advertisers in ASBESTOS; namely, Professional Health Services Inc. and International Compumetics Corporation. And, experts in the field who have worked in the Industry over the years are offering consulting services. One such new business that was recorded this past year was the establishment of a management consulting practice by Clifford L. Sheckler, who at mid-year had retired from Johns-Manville as Manager for Accident Prevention and Health Administration. Mr. Sheckler is now concerned specifically with safety and health, environmental control and workmen's compensation and is working with organizations such as the Asbestos Information Association/North America, the National Insulation Contractors Association and the National Insulation Manufacturers Association, as well as with Johns-Manville.

EQUIPMENT & SERVICES

Aerodyne Development Corporation, Cleveland, Ohio, introduced the Airliner as a fabric filter dust collector that eliminates complicated controls and increases effectiveness of dust collection. . . . Also announced by ADC was the opening of a test laboratory to run product tests on its dust collectors and pneumatic conveyors.

OzoneAir generators for odor control, water treatment and purification were introduced by *The Bauer Bros. Co.,* a subsidiary of Combustion Engineering, Inc., Springfield, Ohio, and Brantford, Ontario.

The Hoffman Air Systems Division of Clarkson Industries, Inc., New York City, has literature available concerning the Hoffco-Vac 237 with disposable safety bag, the Vacumatic dust separator that provides uninterrupted operation of vacuum cleaning systems, centrifugal blowers and exhausters, and high-velocity industrial vacuum cleaning and dust control systems.

Capabilities in air, water and sound measurement and analysis are documented in a brochure from *Commercial Testing & Engineering Company,* Chicago, Illinois.

David Clark Company, Inc., Worcester, Massachusetts, is marketing the universal muff-eye glass adapter called Stop-Gap and added Model E-310 to its Straightway hearing protector line.

DCE Unimaster dust control units were installed by *Dust Control Equipment Ltd.,* Thurmaston, England, at the Bracknell factory of Expandite Ltd. to serve asbestos rope braiding machines.

The Willson Products Division of ESB Inc., Reading, Penn-

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sylvania, developed the single-fiber 560 Respirator that protects against Pneumoconiosis-producing and certain toxic dusts, the Adjust-A-Fit Spatula Temple for safety spectacles, and a complete noise evaluation program called the Sound Consultant System. Publications issued by Willson include a compliance discussion outline and companion slide presentation of OSHA '70 for personal protective equipment, and a guide to proper equipment for eye protection in industrial jobs.

Fisher-Klosterman, Inc., Louisville, Kentucky, announced the WL/WM Series of wet dust collectors, designed to produce, on the interior surface, a continuous film of liquid.

Literature from *Johns-Manville* includes details of its Industrial Hygiene Engineering Service, and a folder describing its systems, services and products that assist in the control of environmental pollution.

Product brochures issued by *Johnson-March Corporation*, Philadelphia, Pennsylvania, are concerned with the Chem-Jet dust suppression system, and Sky-Kleen pulsamatic, intermittent and continuous duty bag collectors.

A pamphlet was distributed by *G. A. Kleissler Company*, Edison, New Jersey, to describe its expertise in designing, fabricating and installing air clean-up systems.

Peabody Engineering Corporation, Stamford, Connecticut, added a pocket filter to its line of air pollution control equipment and issued "Peabody Engineering . . . briefly," to detail its capabilities, products and services.

Tek-Air, Inc., North Royalton, Ohio, reported that the 1972 Model of its oval bag unit, the Modu-Pulse Collector, is redesigned into separated modules to eliminate the re-entrainment of very fine dust during the pulse cycle.

Welsh Manufacturing Company, a Textron company headquartered in Providence, Rhode Island, advised its disposable respirator meets Bureau of Mines Schedule 21B for Pneumoconiosis-producing and toxic dusts.

VITAL STATISTICS & MINE REPORTS

Prices (f.o.b. mine) of asbestos produced in North America were reported periodically in ASBESTOS and no substantial changes have occurred since 1971. In the case of Arizona, the prices remain as they were in August of 1968.

It would appear from statistics at hand that world production of asbestos is on the increase, an indication of continued growth in demand for the mineral and the products in which it is used.

AFRICA

The Republic of South Africa produced more asbestos during the period from April 1971 to March 1972 than it did

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ASBESTOS

Kilborn-engineered asbestos projects in Canada, U.S.A., South America and Europe produce a total fibre output of 365,000 tons per year.

Kilborn services include marketing surveys, process and operating assistance, engineering and construction management for new plants and expansion programs.

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during the previous 12 months--320,282 metric tons to March 1972 and 296,487 tons to March 1971. Exports reached 262,804 tons, valued at R34,826,608, for the 12-month period to March 1972, an increase of 5,124 tons, valued at R2,868,428, over the period to March 1971.

The U.S. Federal Register of January 25, 1972, listed a removal of controls on the importation of Rhodesian asbestos. Asbestos textile grades C & G1 and C & G2 are included.

Other news reported from the African continent included the sinking of a new shaft at the *Pomfret Mine* in Cape Province, and expansions to the mill to produce 2S grade fiber for use in the manufacture of pressure pipes. Pomfret is operated by Cape Blue Mines (Pty) Ltd., a subsidiary of The Cape Asbestos Co. Ltd.

Production of medium long Amosite S11 was started early this year at the *Penge Asbestos Mine* in the Transvaal, operated by Egnep (Pty) Ltd., a Cape Asbestos subsidiary. S11 is a multi-purpose fiber suitable for use in the manufacture of thermal insulation materials and insulation board.

Ownership of *Havelock Asbestos Mine* was transferred from New Amianthus Mines (Pty) Ltd., a subsidiary of Turner & Newall Ltd., to Havelock Asbestos Mines (Swaziland) Ltd., a new company incorporated in Swaziland. T&N holds 60% of the share capital and the Swazi nation eventually will have 40%.

Rhodesian & General Asbestos Corporation, a wholly-owned subsidiary of Turner & Newall, replaced the existing mill at the *King Asbestos Mine,* Mashaba, Rhodesia, thus making the King Mine the main asbestos producer in the R&G Group.

AUSTRALIA

Australia reported rather large percentage increases in the production and imports of asbestos. From October 1970 to September 1971, production reached 952 short tons (816 tons to September 1970) and imports were 77,718 tons, valued at $10,652,000 (65,044 tons, valued at $8,940,000, to September 1970). Exports were on the decline. The amount exported between October 1970 and September 1971 was 142 tons, valued at about $28,000, compared with 373 tons, valued at $94,000, for the prior 12-month period.

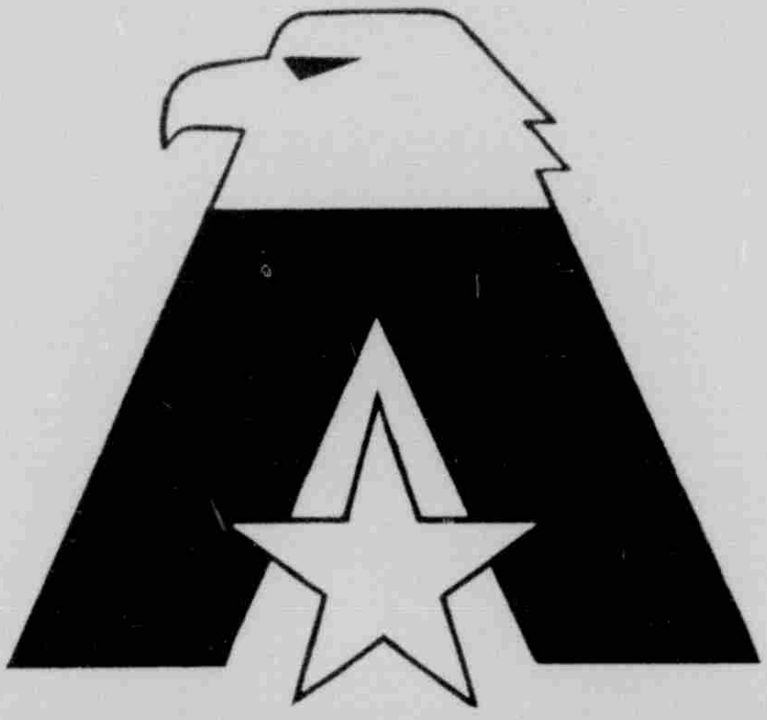
Australian production of non-acoustic asbestos-cement sheets for the 9-month period from July 1971 to March 1972 totaled 30,367,000 square yards, 863,000 square yards more than in the 9-month period to March 1971.

Publications issued during the year by the Commonwealth Bureau of Census & Statistics, Canberra, were "Mineral Exploration, 1969-70" and "Mineral Production, 1969-70."

Of great significance to the Australian asbestos industry

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is the opening of the mining and milling complex at Barraba, N.S.W., by *Woodsreef Mines Ltd.* (formerly Pacific Asbestos Ltd.) The property is operated by Chrysotile Corporation of Australia Pty. Ltd., a wholly-owned subsidiary of Woodsreef. Total fiber production from February 1972 (when the mill was commissioned) to June 1972 was 5,242 tons. The operation is designed to annually produce some 70,000 tons of fiber. It is interesting to note the largest bulldozers ever made in Japan (designed and built by Komatsu Ltd.) are in operation at Barraba. To quote the Bureau of Mineral Resources, Geology & Geophysics, Canberra, in its 1970 review of the Australian mineral industry, "It is hoped that with Woodsreef in production, self-sufficiency in certain grades of Chrysotile will greatly increase and Australia might become a net exporter."

BOLIVIA

The Bolivian asbestos industry is being cultivated, via the United Nations Development Program, including the building of a cleaning and concentrating plant in the Department of Cochabamba.

BRAZIL

S.A. Mineracao de Amianto produces from 85% to 90% of the total Brazilian production of asbestos at its Cana Brava deposit in Uruacu, Goias. SAMA expects to have an output of about 27,000 tons in 1972. Statistical information from governmental sources indicates that even with the Cana Brava deposit, Brazil does not maintain self-sufficiency.

CANADA

According to quarterly information reports from our Canadian correspondent, shipments of asbestos from Canadian producers are slightly ahead of last year and demand for the shorter grades, principally Group 7, continues strong in the U.S. and Canada, reflecting improved economic climates. However, shipments to customers outside of these two countries are at a lower level than in 1971, reflecting not only low levels of economic activity, but labor problems and work stoppages at the St. Lawrence River ports at mid-year.

Upon calculating statistics available to us, Canadian asbestos producers' shipments amounted to 1,696,089 short tons from October 1971 to September 1972, which is 41,050 tons over the foregoing like period. Canada exported 1,507,028 tons of unmanufactured asbestos, valued at $215,869,000, for the 12 months to July 1972, less than in the previous like period by 137,918 in tons and $21,368,000 in value.

Production of vinyl-asbestos floor tile in Canada during the first half of 1972 totaled 99,835,800 square feet, or 45,871

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tons. Statistics for the same six months in 1971 were less by about 9.8 million square feet, or 4,044 tons.

Although we do not have comparable figures for prior periods, from January-June 1972 Canadian shipments to domestic papermills of woven and/or needled felts used in asbestos-cement pipe or sheet-forming operations totaled 11,933 pounds, valued at $75,209.

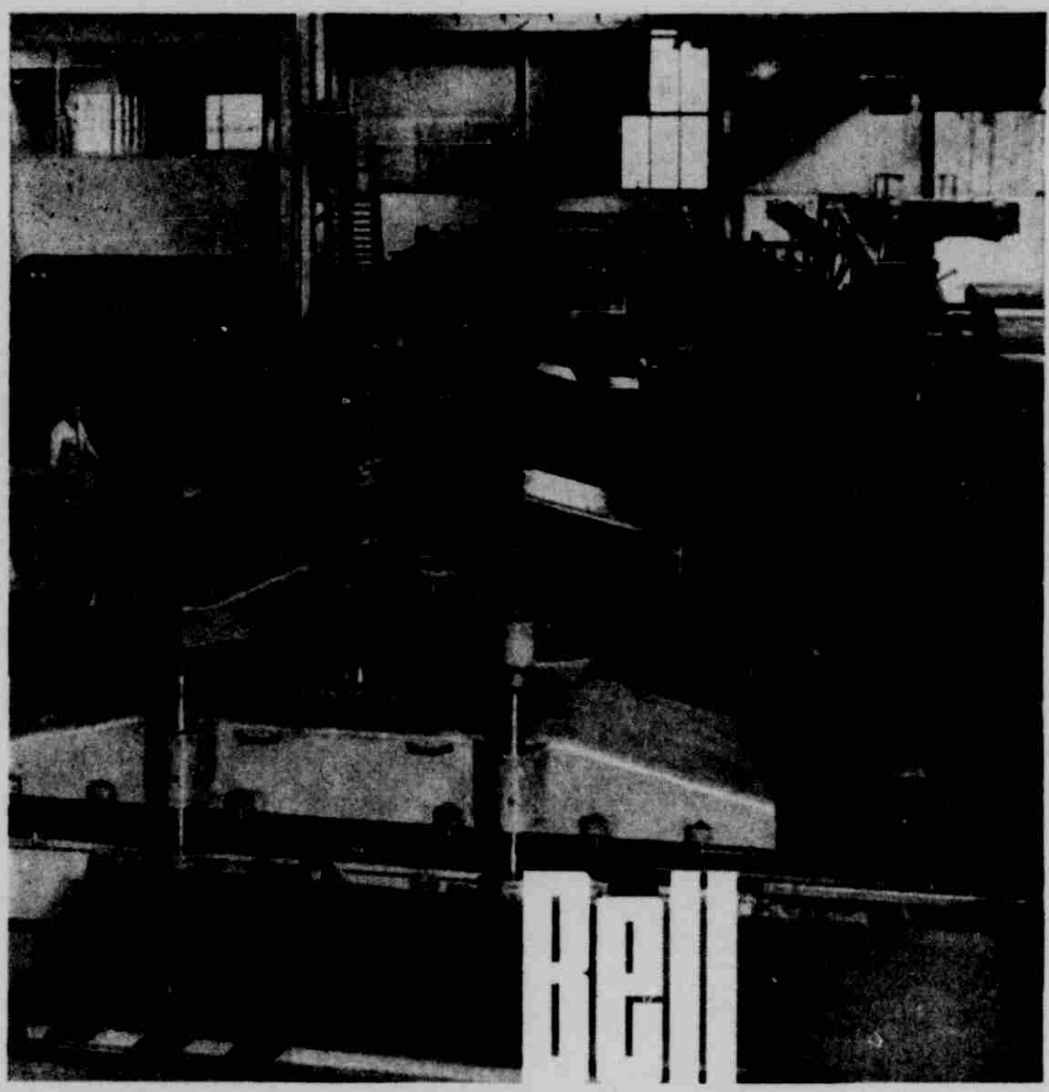
Reports giving statistical data on Canada issued by Statistics Canada, Ottawa, were concerned with mineral production for 1970 (75c), preliminary estimate of mineral production for 1971 (50c), asbestos mines in 1970 (50c), a general review of the mineral industries in 1969 (75c), products shipped by Canadian manufacturers in 1969 (75c), and preliminary report of the 1970 Annual Census of Manufactures. Other publications included "Asbestos Mines 1969-70" from the Quebec Bureau of Statistics and "Mineral Map 900-A" showing the principal mineral areas of Canada, prepared by the Department of Energy, Mines and Resources, Ottawa.

Under an agreement between *Abitibi Asbestos Mining Co. Ltd.* and *Brinco Ltd.*, Abitibi's asbestos property at Maizerets Township, near Amos, Quebec, is being developed. Stockpiling was to start in November and a pilot plant is soon to be constructed. According to a feasibility study made by *Kilborn Engineering* on the "A" property, ore reserves amenable to open pit mining are sufficient to support a 13,000-ton-per-day processing plant for 25 years. The fiber is a fast-draining, strong, clean, cross-fiber Chrysotile, in Groups 4, 5 and 6. During the latter part of the year, an exploration diamond drill hole located an asbestos-bearing structure about four miles southeast of Abitibi's main "A" deposit. An asbestos discovery also was made on a property in McArthur Township, near Timmins, Ontario, held under option by Abitibi.

The Mercantile Bank of Canada will provide a $12 million loan to help finance production at the asbestos property owned by *Allied Mining Corporation Ltd.* Located in Midlothian Township, Northern Ontario, the property contains cross-fiber Chrysotile, mostly in Groups 5, 6 and 7. The balance of the financing needed ($6 million) is to be provided by Allied and by *United Asbestos Corporation Ltd.*, which holds an equity interest in Allied Mining. On October 31st, United's Directors unanimously approved an agreement in principle for a proposal to merge by way of a statutory amalgamation of United with Allied on a share-for-share basis. The merging companies plan to call special general meetings of shareholders early next year, subsequent to receiving approval of the required information circular from the necessary regulatory bodies.

Anglo Western Minerals Ltd., which holds 22 asbestos claims in the Clinton area of the Yukon, purchased an additional 58 adjacent asbestos claims from Sphere Development

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Corporation Ltd. Anglo and a partner company, *Branta Explorations Ltd.*, are conducting an exploration program on the property. The fiber falls within the Group 4 category.

Asbestos Corporation Ltd. is in production at its Asbestos Hill property situated at Hudson Strait in the far northern Ungava area of Quebec. The project started into the tune-up stage in May, following a construction period of two years and an expenditure of about $65 million. Accumulated tonnages from the 5000-ton-per-day mill will be shipped to Corporation's new finishing plant at Nordenham, West Germany. The Nordenham facilities are designed to annually treat 300,000 tons of ungraded material to produce 100,000 tons of finished fiber, mostly in Grades 4 and 5. . . . *United Asbestos* and *Lake Asbestos of Quebec Ltd.*, a subsidiary of American Smelting and Refining Company, reached an agreement to purchase from Asbestos Corporation the mining rights adjacent to the LAQ open pit at Black Lake, Quebec. The acquisition, purchased at a price of $1,750,000, will allow increased access to the present pit being worked under a joint venture between LAQ and United. Minable reserves will be increased by some 45 million tons. . . . Asbestos Corporation is among the contractors of the five-year program that began in April to establish standardized engineering procedures for designing and supporting the walls of open pit mines or for reducing the size of open pits. According to the Department of Energy, Mines and Resources, Ottawa, the purpose of the project is to allow maximum extraction of ore at minimum physical hazard and cost.

Canadian Johns-Manville Co. Ltd. is continuing its $75 million project to move all milling surface facilities approximately 1,000 yards southeast of the Jeffrey open-pit asbestos mine at Asbestos, Quebec. What is believed to be the world's largest crusher was installed at the new crusher-dryer-concentrator complex. In addition, a 120-ton steel truss was hoisted into place recently to complete one of the last major conveyor structures designed to carry ore from the new complex to the milling facilities. The entire program is actually the largest part of a $90 million investment by C.J-M in the past six years to extend its asbestos mining and manufacturing facilities at Quebec. $7 million of the overall program is to be expended for a new manufacturing plant now under construction in the Montreal-area South Shore community of Brossard. Being built with the help of a grant from the Department of Regional Economic Expansion, the plant is scheduled to manufacture glass fiber insulation products and polyvinyl chloride pipe.

Celtic Minerals Ltd. entered into a tentative option agreement with *Sentinal Resources Ltd.* to acquire a 70% interest in an asbestos-bearing property in Cleveland Township, Quebec. Two diamond drill holes have been completed and the

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third is underway. Celtic is considering adding a second drilling machine to speed the program and to test a number of magnetic targets with good potential. The fiber is in the same serpentine belt that contains the C.J-M and Pathfinder orebodies.

Flintkote Mines Ltd., a subsidiary of The Flintkote Company, Inc., closed its asbestos mine at Thetford Mines, Quebec, as of December 31, 1971. The fully-integrated mine and mill had been in operation since 1946.

Rio Tinto Canadian Exploration, wholly-owned subsidiary of Rio Algom Mines Ltd., is proceeding with the project at the *McAdam Mining Corporation* asbestos property in the Chibougamau District of Quebec. A computerized ore reserve calculation of the "C" zone indicated a geological reserve of 105 million tons of material grading 3.92% fiber to a depth of 700 feet. Additional equipment has been installed at the pilot plant to facilitate reliable processing of the samples to determine the best methods of fiber extraction and preparation.

Pathfinder Resources Ltd. and *Pan Ocean Oil Corporation* are negotiating an agreement that, if consummated, will result in the development by Pan Ocean of Pathfinder's Lili asbestos property in Cleveland Township, Quebec. Confirmatory drilling indicated over 45 million tons of asbestos-bearing material. The material is of the slip-fiber Chrysotile variety and work is continuing toward a final feasibility study. The consultants on the project are *Surveyer, Nenniger & Chenevert.*

As an interesting aside, more than 200 Canadian firms exhibited their products at the first *Canadian Trade Exposition* in Peking, China. Held in August, it was the largest industrial showing ever sponsored by the Department of Industry, Trade and Commerce and amongst the exhibitors were Asbestos Corporation, Bell Asbestos Mines, Canadian Johns-Manville, Cassiar Asbestos Corporation, and Lake Asbestos of Quebec.

CYPRUS

Asbestos production and exports reported for the Republic of Cyprus were ahead of prior years. Cyprus reported 23,752 short tons (valued at L1,317,071) for the year 1970 compared with 22,146 tons in 1969, 17,700 tons in 1968 and 18,541 tons in 1967. Production from July 1971 to June 1972 reached 30,988 tons, valued at L1,871,500. These figures are 6,478 tons and L528,345 higher than during the prior 12-month period

FINLAND

According to the U.S. Bureau of Mines, production of asbestos in Finland for the year 1971 totaled 10,360 metric tons compared with 13,625 tons in 1970. . . . Under a 1972 trade agreement, Finland was to import from the USSR a minimum

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of 1600 metric tons of asbestos and to export to the USSR 700 metric tons of Anthophyllite asbestos.

GREECE

A 100,000-ton-per-year asbestos mine and mill may soon be opened at Zidani, near Kozani, Greece. Reportedly, the Hellenic Industrial Development Bank S.A. has approved in principle the $30 million asbestos-mining project proposed by *Cerro Corporation*. Endeavors are being made toward obtaining financing from local mining and manufacturing firms.

ITALY

In 1970, asbestos production in Italy totaled 118,612 metric tons compared with 112,526 tons the previous year. Trade in asbestos by Italy during 1970 included 48,538 tons exported and 62,253 tons imported.

MEXICO

We have not received further information as to whether or not *Freeport Minerals Company* will retain or sell its interest in the joint asbestos venture near Cuicatlan, in the State of Oaxaca, Mexico. The venture is between Freemex, S.A., a wholly-owned subsidiary of Freeport, and its Mexican partner, Industrias Penoles, S.A. Thus far, approximately $500,000 has been invested in exploration, drilling and test marketing. Upon applying for routine exploration permits, Penoles was not granted the necessary permits so long as Penoles had Freeport as a partner. Freeport interprets the Mexican stand as a retaliation against its charges that Mexican producers have been dumping low-priced sulphur on the U.S. market.

NEW ZEALAND

No production of asbestos by New Zealand has been recorded since 1963. However, the situation may change in light of investigations by *Kennecott Exploration,* the New Zealand subsidiary of Kennecott Copper Corporation, of newly-discovered asbestos-bearing rock outcrops at Red Hills, West Otago, on the South Island.

TASMANIA

Early in the year, *Allstate Exploration N.L.* reported completion of the exploration program at its asbestos prospect near Beaconsfield, Tasmania. Results of the survey have not been received as yet.

UNITED STATES

In 1969 this journal recorded the discovery of an occurrence of cross-fiber Chrysotile asbestos in the Eagle C-4 Quadrangle of Alaska. This was the first such deposit found in that part of the State which lies adjacent to the Yukon Territory

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of Canada and about 55 miles northwest of the Clinton Creek mining operation of Cassiar Asbestos Corporation Ltd. Because of the Land Freeze in Alaska being extended beyond April 1971, valid claims for asbestos still cannot be staked in the Eagle area and staking probably will not be permissible until the problem of native land claims is settled by the U.S. Congress. The U.S. Geological Survey has continued mapping in the Eagle area and the data it has been making available in open file reports could be of interest to asbestos prospectors.

The four U.S. States that produce asbestos are California, Vermont, Arizona and North Carolina. Preliminary figures for 1971 indicate that total U.S. asbestos production of Chrysotile and Anthophyllite was 132,000 tons with a value of $12,406,000, up 5% and 14%, respectively, from the previous year. Of the 757,000 tons of asbestos apparently consumed during 1971 (4% above 1970), 70% was used in the production of asbestos-cement construction products, followed by 7% in floor tile and 3% in paper products.

During the period from August 1971 through July 1972, U.S. imports of all varieties of unmanufactured asbestos totaled 730,104 short tons, valued at $86,761,767. This is 61,588 tons more and $8.1 million higher than in the previous 12-month period. Canada continues to be the major supplier of asbestos consumed in the United States. During the 12-month period to July 1972, U.S. imports of manufactured goods were valued at $10,711,912, less than in the prior 12-month period by $1,183,224. To July 1972, decreases in value were recorded for asbestos pipes, tubes and fittings (down $901,348) and for other asbestos-cement articles (down $543,308). The value of asbestos yarn and slivers was higher by $73,659 and for other asbestos articles was up by $187,773.

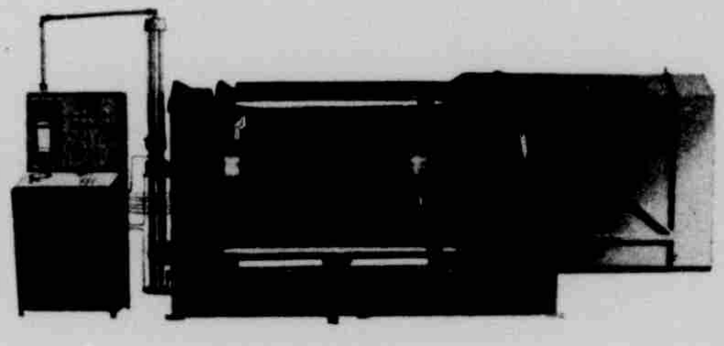
U.S. exports of all grades of unmanufactured asbestos totaled 52,550 short tons, valued at $7,229,026, for the 12 months to July 1972. This was 6,503 tons more in quantity and $599,758 higher in value than in the preceding 12 months. For the period to July 1972, the U.S. exported $31,150,065 worth of manufactured asbestos goods, $8.3 million more than in the period to July 1971. Comparing figures for the years 1971 vs. 1970, exports of asbestos packing were down in 1971 from 4.6 million pounds to slightly under 4 million pounds, and exports of clutch facings and linings for other than automotive use were down to 656,602 pieces in 1971 compared with 1,035,981 pieces in 1970.

WORLD

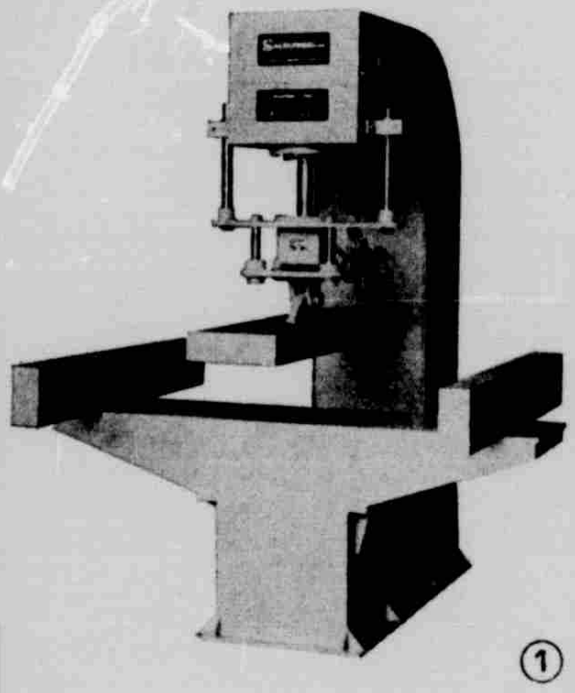
Preliminary data estimate world asbestos production for 1971 totaled 3,581,102 metric tons, an increase of 95,106 tons over 1970. The figures do not include production in Czecho-

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① Bending and crushing test press for sheet and pipes



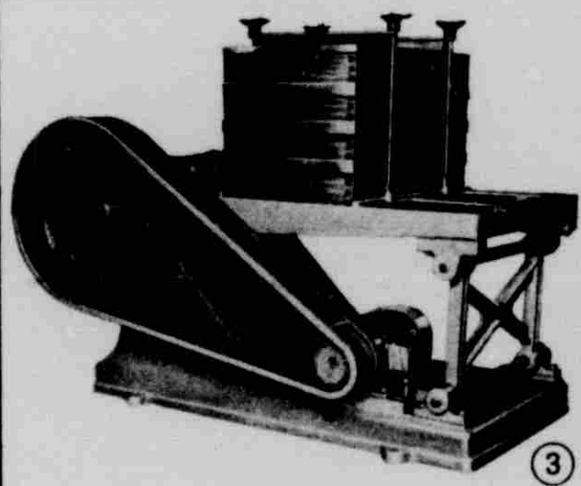
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

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slovakia, North Korea and Romania as the information available is inadequate. Canada, the USSR and South Africa continue to be the major producers.

ASBESTOS FIBER & PRODUCTS

A 16mm, sound, color film titled *Fire At Work* was produced with the aid of the Asbestos Information Committee, Colt International Ltd. and Minimax. Available in English, French, German and Spanish, it includes dramatic sequences that show how lives are protected through the use of asbestos products.

Researchers at the Soviet Far Eastern Polytechnical Institute developed a *road-building technique* utilizing cement-ground instead of sand and rubble. After the ground is loosened, cement and waste from asbestos slate production are added. A three-year test showed substantial increase in the strength of the coating.

An effective system to combat a possible emergency situation in nuclear-powered submarines involves the use of *oxygen candles and Chrysotile asbestos*. Each candle contains something less than one pound of fiber and burns for just over an hour to produce 60 cubic feet of oxygen.

Bobtex Corporation, Montreal, Quebec, developed new principles in spun yarn technology that it calls the Bobtex Integrated Composite Spinning (ICS) process. It is capable of operating within a linear output speed of 1,000 to 2,000 feet per minute and of producing yarns from 30 to 300 Tex. The developers claim that staple fibers of all kinds and sizes, including the newer fine fibers, can be processed on ICS machines. Bobtex has produced sample quantities of yarns containing asbestos fibers, but most of the development work thus far has been devoted to producing yarns from synthetic and natural vegetable fibers.

Asbestos-cement tiles set in concrete seal off the base of a helicopter landing pad from the Boise Fontaine Inc. office complex at Quebec City. In the event of a disaster occurring to a helicopter, the tile-concrete combination will serve as a *fireproof saucer* to contain any blazing fuel until it burns off or is extinguished. . . . Half-inch *asbestos board panels* were supplied by *Canadian Johns-Manville* for the new 12-story addition to the Boise Fontaine building.

The Export Division of *Cape Insulation Ltd.* supplied L50,-000 worth of *Caposil high temperature insulation* for use by two major furnace manufacturers in France in the construction of new plants being built as part of the French steel industry's expansion program. Caposil was specified despite strong opposition from French manufacturers offering block insulation at lower prices. . . . Almost all ships launched by Italian ship-

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yards in the last ten years were fitted with either *Caposite or Silabestos insulation. Siliamianto S.A.S.* is the only plant in Italy that produces asbestos insulation materials. The essential raw material, Amosite asbestos, is supplied by *Cape Asbestos Fibres Ltd.* . . . New regulations introduced in Japan have greatly increased the market in that country for *Asbestolux* and *Caslite,* both of which are Amosite-containing products that *Nippon Asbestos Co. Ltd.* manufactures under license from *Cape Asbestos.* Now in its 77th year, Nippon Asbestos moved to a new office building in Tokyo in November 1971. The former head office building in the Ginza District will be retained as a branch office.

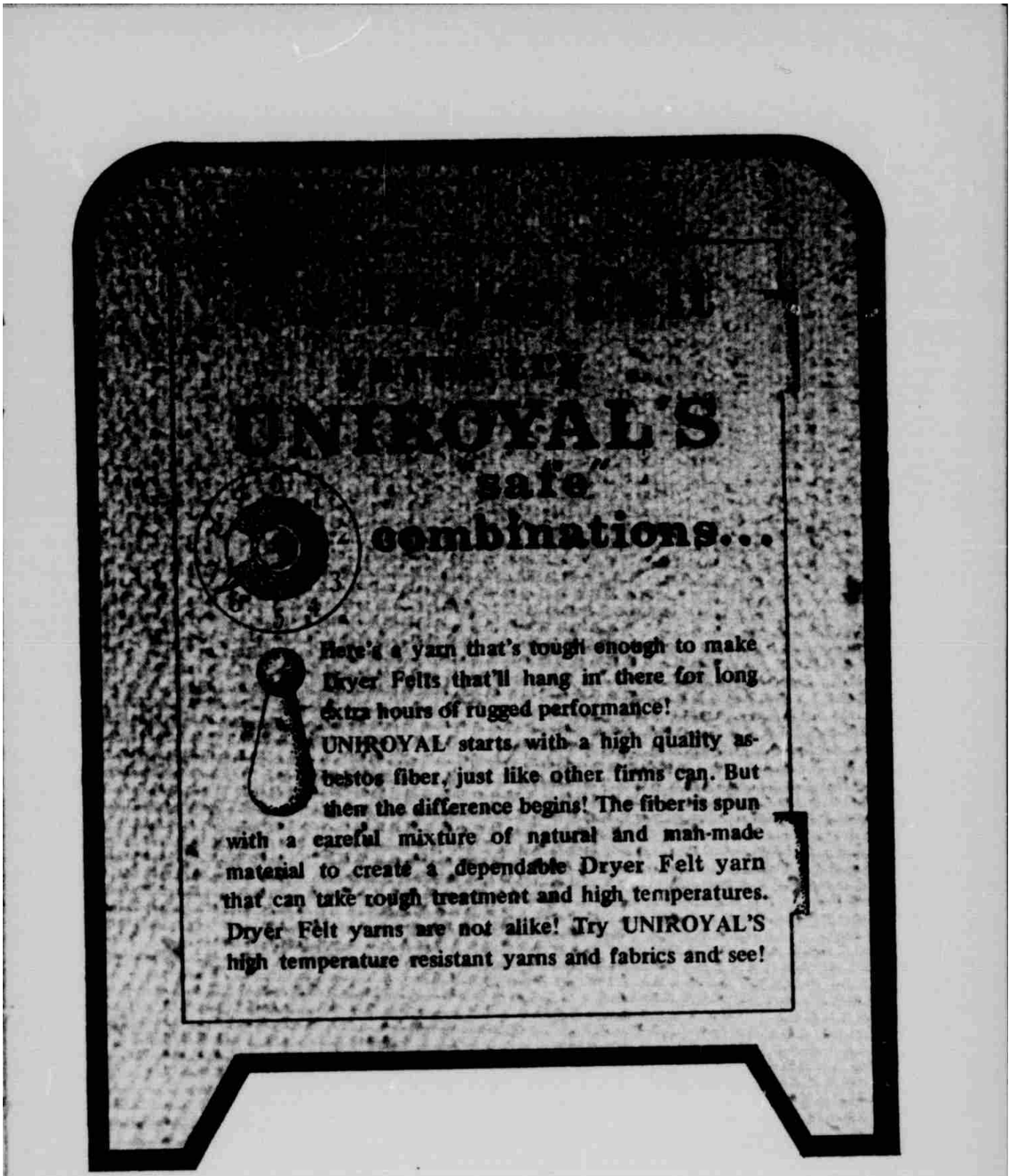
Advantages and disadvantages of the most popular *exterior home siding materials,* including asbestos, are given in a consumer booklet called "How to Avoid the $8000 Mistake," published by *Certain-teed Products Corporation.*

Asbestos cement is one of the *facings* for polyurethane foam-filled panels now being marketed, domestically, by *Corform Pty Ltd.,* West Heidelberg, Australia. The panels provide a deck that is a combination of sheet, insulation and ceiling, and is particularly suited to meet high thermal insulation requirements.

Colombia produces practically all of its own construction materials including *asbestos-cement products,* the production of which began in Colombia in the late 1930's. Today the major local manufacturer, part of the *Eternit Group* of companies, operates several plants which satisfy domestic demand for roofing materials, pipe and containers, leaving a surplus available for export to neighboring countries.

More than two miles of 24" and 1,200 feet of 30"*Transite transmission pipe* were laid in five feet of cover at a pipe project near Denver, Colorado. Transite asbestos-cement pipe is manufactured by *Johns-Manville* and is a mixture of asbestos fibers, silica and cement. . . . J-M introduced an extremely thin, high-strength *asbestos paper gasketing material.* Designated as Style No. 747, the lightweight material is resistant to cracking and crazing due to the firm mechanical bond between the asbestos of the base sheet and the silicone resin saturant as well as to the controlled, partially-cured state in which the product is supplied. . . . Among the *J-M literature* issued this year were AFD-21A on asbestos-asphalt surface overlays and paving; AFD-24A on asbestos-asphalt concrete road patching mixture; TR-112A on J-M's complete line of pipe products; TR-600A on the use of Transite asbestos-cement "T" pipe in agricultural irrigation systems; TR-604A on the Super Temp-Tite insulated pipe system for conveying steam and high temperature hot water underground; technical bulletins covering five J-M packing and sealing ring products; and technical bulletins on the complete J-M line of sheet gasketing materials

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including compressed white Chrysotile asbestos acid-resistant sheet No. 86A and asbestos paper No. 747.

Promotional literature has been mailed monthly by *Pacific Asbestos Corporation,* Copperopolis, California, in an effort to depict to customers and potential buyers the merits of using the Mother Lode brand of Chrysotile asbestos fiber. Listed among the characteristics of the fiber are rapid filtration, good tensile and high flexural strengths, optimum deflection and low moisture absorption. Shrink-film unitizing allows for product protection and a cleaner atmosphere.

Porter Clean-Gard Safety Cloth is now in full production at the asbestos textile plant at Charlotte, North Carolina, operated by the Thermoid Division of *H. K. Porter Company, Inc.* . . . Thermoid supplied the entire requirement for two types of *aluminum-coated, asbestos-glass jacketing fabric* for the Browns Ferry Nuclear Plant, at Limestone County, Alabama. . . . "Porter Asbestos Textiles" is the title of a *company brochure* issued early in the year covering the complete Thermoid line of cord, cloth, rope, wick, lap, roving, yarn, thread, tubing, tape and conveyor belts.

The Raybestos Division of *Raybestos-Manhattan, Inc.*, gave each driver who qualified for the 1972 "Indianapolis 500" a personalized *race car cockpit canopy covered with Silvabestos,* an aluminum-resin coated asbestos cloth manufactured by R/M's Asbestos Textile Division. . . . By standardizing on special *R/M TFE-impregnated asbestos packing rings,* the Ohio Brass Company gave its products an exceptionally long-lasting seal while keeping inventory simple. Ohio Brass played a key role in the development of the TFE-asbestos packing and is considered the first to have put it in all valve lines. The R/M packing combines the best features of its two components—long Chrysotile asbestos fibers and TFE. A testing program showed the packing rings to last as long as the mechanical parts of the valve, to endure temperatures as high as 500°F, and withstand pressures to 2,000 psi.

Two new families of *asbestos-acrylic gasket materials* were developed by *Rogers Corporation,* Rogers, Connecticut. Called GP/duroids, they are said to offer better temperature resistance, equal or better torque retention and fluid resistance superior to all but highest-priced asbestos sheets.

Turner & Newall Group—A hard-wearing, anti-slip deck tread was launched by *Ferodo Ltd.*, Chapel-en-le-Frith, Stockport, England, as a flexible molded *asbestos-resin flooring material* for use where a high density of pedestrian traffic exists or where resistance to water and chemicals is important. . . . To enable the structural steelwork of a pharmaceuticals factory in Singapore to meet local fire authority requirements, *TAC Construction Materials Ltd.* supplied *Sprayed Limpet Asbestos* with BD2 sprayed self-setting cement finish. The product con-

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sists of specially-blended and prepared "white" asbestos fibers and an inorganic binder. . . . *Turners Asbestos Cement (Nigeria) Ltd.* supplied *asbestos-cement pipes for water projects* throughout the East Central State of Nigeria and at Zaria and Katsina in the North Central State.

Asbeston asbestos fabrics and yarns produced by Uniroyal Fiber and Textile are considered by the manufacturer as its most diversified firefighting product. An asbestos material was developed for the U.S. Space Program that is completely nonflammable in a 100% oxygen environment and NASA used it in the stowage containers for astronauts' survival equipment on every space flight since Apollo 7.

NEW COMPANY NAMES & EXPANSIONS

Amatex Corporation is the new, shorter name of American Asbestos Textile Corporation, Norristown, Pennsylvania, manufacturer of industrial textile products.

Asbestos Monterrey, S.A., a major asbestos-cement pipe manufacturer in Mexico, expanded its fleet of lift trucks to help meet the increasing domestic demand for pipe used in construction, ranging from farm irrigation systems to industrial plants and government facilities.

Consolidation of corporate manufacturing operations was announced by *C-E Bauer* including the transfer of manufacturing responsibilities for its process machinery from Springfield, Ohio, to other C-E manufacturing facilities.

Deutsche Bendix Ausrustungs GmbH, a French-German-American supplier of automotive parts, dedicated its $15 million automotive disc brake manufacturing facilities in Germany. Said to be the most modern complex of its type in the world, it consists of an engineering center and a production factory at Saarbrucken and an iron foundry at Neunkirchen. Deutsche Bendix is a joint venture of The Bendix Corporation, Southfield, Michigan, and its French subsidiary, Societe Anonyme D.B.A., Clichy, France.

The Carborundum Company, Niagara Falls, New York, expanded its Far East operations by forming two new companies: Carborundum (Far East) Ltd., Tokyo, and Carborundum Tzu Jan Industrial Company Ltd., Taipei, a joint venture with Tzu Jan Chemical Works.

Certain-teed/Daymond Company, a joint venture of Certain-teed Products Corporation and Daymond, Ltd., Toronto, Ontario, opened its third plant in the United States for the production of corrugated polyethylene drainage pipe at Lawrenceville, Illinois. . . . *Fluid Systems Hawaii, Inc.*, was formed in Honolulu as a majority-owned subsidiary of Certain-teed. . . . The headquarters complex and manufacturing facilities of Certain-teed's *Gustin-Bacon Group* are being moved from

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Kansas City to Lawrence, Kansas. . . . Certain-teed is to build a *$1.4 million plant* in the Atlanta, Georgia, area for converting mine or quarry tailings into building bricks, using the patented Tek Process.

Dust Control Equipment Ltd. formed a subsidiary in Melbourne, Australia, named *DCE Dust Control Pty. Ltd.* A factory is being constructed nearby to provide production facilities for the manufacture and assembly of DCE equipment, head office accommodations and stockholding space.

The *Asbestos and Cement Products Plant* at Trzemeszno, Poland, a maker of *Eternit* roofing materials, is erecting a department to specialize in the production of boards, mats and cladding. Later, a laminated board department will be added. . . . *Eternitwerke,* Vocklabruck, Austria, installed an automated plant for the preparation of asbestos to allow more efficient fiberization and optimum grading of fiber lengths for sheet manufacture.

Everite Ltd., Johannesburg, opened Sales Depots at Fuestenburg and Tzaneen to provide improved services in the Transvaal. Also established were a Branch Office and Stock Depot at Kimberley to promote the sale of building materials, pressure pipes and sprinkler irrigation equipment. . . . A fully-computerized, 12,000-metric-ton press was installed at the Kliprivier factory, in the Transvaal, that is capable of pressing 200 asbestos-cement sheets simultaneously. . . . The new R5 million pipe factory at Kliprivier was opened August 30. Situated 30 kilometers south of Johannesburg, Everite's undertaking will increase its annual pipe output by about 60% over the 1971 figure of 26,500 metric tons. The plant will contribute materially to the economic structure of the Republic by supplying essential material for the expansion of the country's local industrial infrastructure and by placing South Africa in a strong competitive position in overseas markets.

The Flintkote Company expanded its vinyl-asbestos floor tile line and added a 3,000-foot extension of warehouse facilities at its plant in Chillicothe, Ohio.

Franconit, formerly Distrimat CIM, began producing asbestos corrugated sheets in October at Saint-Eloy-Les-Mines. The pipe machine is expected to begin operating this month. Everitube has a share in the new firm which is the third asbestos-cement products maker in France, the others being Eternit and Everitube.

Following the formation of the new Coatings Division, *Garlock Inc.* opened the Division's first production facility, at Austin, Texas, for the mixing and packaging of a nylon-based liquid coating. Certain specialty chemical and coating products, now administered by Garlock's Mechanical Rubber Division, will be added to the output of the new plant.

To meet the growing market requirements for PVC pipe,

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Company.....

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Street.....

City..... State..... Zip.....

No. of Employees to be Tested .....

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Johns-Manville is constructing plants in Arizona, Colorado and North Carolina to increase production of polyvinyl chloride plastic. The three plants are expected to be completed in early 1973.

PACOR Inc. is the new name of the former Philadelphia Asbestos Corporation, a distributor of thermal insulation products.

Dallas, Texas, is the location of *Raybestos-Manhattan*'s ninth corporate distribution center and bonding depot, opened to stock products manufactured by the Grey-Rock, Raybestos, Rubber & Packing Replacement Sales and Asbestos Textile Divisions. . . . The new Packing Sales Division was formed by R/M to allow full concentration of its selling strengths in the marketing opportunities that exist for its line of mechanical packings, gasket materials, sealing devices and silicone products in both the original equipment and the replacement markets. The move follows R/M's recently announced decision to withdraw from the manufacture and sale of industrial hose, belting and selected other rubber product lines in the U.S. and Canada. Along with the withdrawal from the rubber business, R/M also announced it will close its plant at Passaic, New Jersey. A prior announcement concerned the discontinuance of rubber operations at Peterborough, Ontario.

Supradur Manufacturing Corporation undertook an extensive program to increase production facilities at the main building of its plant at Wind Gap, Pennsylvania. The equipment installed is involved primarily with dust and water purification methods. Supradur maintains executive offices in New York City and manufactures asbestos-cement siding and roofing at Wind Gap.

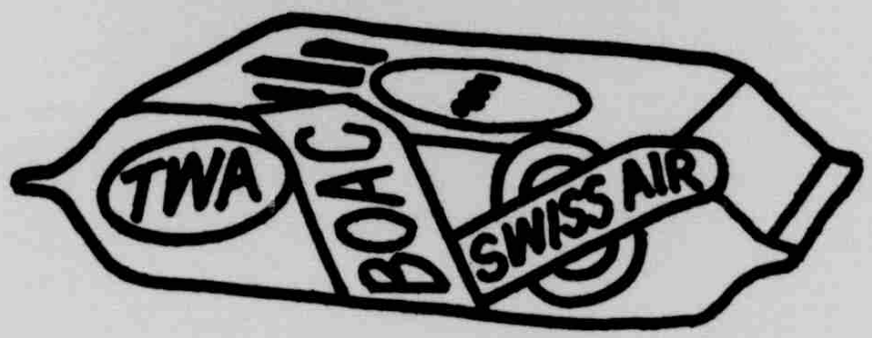
The first asbestos-cement pipe factory in Zambia was established at the Chilanga Works, near Lusaka. Put into operation by *TAP Building Products Ltd.*, a T&N subsidiary, the L500,000 plant is capable of producing asbestos-cement pipes up to 24″ in diameter and four meters in length.

ACQUISITIONS, MERGERS & SALES

Certain-teed Products Corporation reached an agreement with Saint-Gobain-Pont-a-Mousson and INA Corporation whereby the two latter companies became Certain-teed stockholders, thus providing capital to finance the manufacturing facilities required to produce glass fiber products and composite materials. . . . Among the acquisitions announced by Certain-teed during the year were Vincent Supply Co. of Sacramento, California, by Water Works Supply & Manufacturing Co., Inc.; Housing Securities, Inc., by Valley Forge Corporation; and Waste Techniques Corporation, Conshohocken, Pennsylvania,

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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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by Nayadic Sciences, Inc. Also, Certain-teed acquired Ellis & Ford Manufacturing Co., Inc., of Troy and Grand Rapids, Michigan, and reached an agreement to acquire Southern Meter and Supply Co., Inc., of Hapeville, Georgia.

The Flintkote Company approved the sale of its packaging products operations to MacMillan Bloedel Ltd., subject to approval of the directors of both firms. . . . By mutual agreement, Flintkote terminated plans to acquire Blue Rock Industries, of Westbrook, Maine.

FMC Corporation and *RayGo, Inc.*, reached an agreement in principle for the merger of the two firms whereby RayGo will become an operating division of FMC. Deltak, an operating division of RayGo, is not included in the transaction.

Garlock Inc., Rochester, New York, agreed in principle to acquire Service Spring Company, Indianapolis, Indiana, a maker of truck leaf springs and related products.

Jim Walter Corporation, Tampa, Florida, acquired the 89% stock interest in Panacon Corporation previously held by Glen Alden Corporation. Panacon is the third largest division of Jim Walter and is the parent firm of *Philip Carey*, Briggs manufacturing, and Republic Heater. . . . Jim Walter agreed in principle to purchase the Crown Tuft carpet operations of *Johns-Manville Products Corporation*, located at Spring Place, Georgia.

Johns-Manville acquired 75% controlling interest in the Schuller Companies of West Germany. . . . Applied Computer Technology Corporation, Los Angeles, California, originator of the Foresight System, is now a subsidiary of Johns-Manville. . . . J-M Pipeline Accessories Corporation acquired substantially all of the assets of Christy Metal Products.

Following acquisition by *Tenneco Inc.* of David Brown Tractors, Ltd., the British manufacturer now is an operating division of J I Case Company, a Tenneco subsidiary based in Racine, Wisconsin.

LICENSING & SALES AGREEMENTS

British Metal Corporation (Australia) Pty. Ltd. was appointed by Chrysotile Corporation of Australia Pty. Ltd. as its agent for the sale of asbestos fiber in Australia and New Zealand.

Cape Asbestos Fibres Ltd. was appointed exclusive sales agents by Dublin Consolidated Asbestos Mines (Pty) Ltd., for the supply of its Amosite grades CF and KM/AA.

Mitsubishi Cement Co. Ltd., Japan, and Certain-teed Products Corporation signed an agreement for the licensing and use of Certain-teed's technical expertise in and patent rights to the extrusion of asbestos-cement building components.

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SUBSTITUTES FOR ASBESTOS

Papermaking sludges and clay wastes can be transformed into top-grade products by a process patented by Plastic Research Laboratories, Tideswell, Derbyshire, England, part of the Spey Investments Group. One of the products is a *simulated asbestos board* that is said to have fire-retardant capabilities comparable to those of asbestos but whose manufacture and use do not involve the health hazards that are associated with asbestos.

Franklin Key, Inc., a new company jointly formed by Certain-teed Products Corporation and The Franklin Institute, developed and is evaluating a non-toxic synthetic material called the *Franklin Fiber*. It is considered by the developers as a non-hazardous, fire-resistant substitute for asbestos and a low-cost, high-strength fiber material for aerospace and industrial use.

Gelman Instrument Company, Ann Arbor, Michigan, introduced Metrigard and Metricel as two new *filter products*. The former is a superfine glass fiber filter medium with an acrylic binder for outstanding wet strength and was developed as a replacement for asbestos filter pads in a number of applications.

The Plastics Department of General Electric Company announced the removal of asbestos, by the end of this year, from all grades of *phenolic molding compounds*.

U.S. ANTIDUMPING INVESTIGATIONS

Notice was published in the Federal Register in January 1972 that the U.S. Department of the Treasury issued a tentative determination of no sales at less than fair value in connection with its antidumping investigation of *vinyl-asbestos floor tile from Canada*. Following investigation, it was ruled the tile was not being dumped in the United States.

In February the Treasury Department advised the Tariff Commission that *asbestos-cement pipe from Japan* was being, and was likely to be, sold at less than fair value. It was determined later that an industry in the U.S. was being injured and imports of the pipe from Japan sold at less than fair value will become subject to special dumping duties.

ASBESTOS STORY RINGS

ASBESTOS proudly announced the presentation of Asbestos Story Rings to four deserving leaders in the Industry. In order of receipt they are: Casting No. 14 to *André Emsens*, former Chairman of Companie Financiere Eternit S.A., Brussels; No. 15 to *Dr. Karl V. Lindell*, of Karl V. Lindell Associates Ltd., Danville, Quebec, and former Board Chairman of Canadian Johns-Manville Co. Ltd.; No. 16 to *R. M. Bateman*, Chairman

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of Turner & Newall Ltd., Manchester, England; and No. 17 to *F. Parker Smith,* Vice-Chairman of the Board and former President of Bell Asbestos Mines Ltd., Thetford Mines, Quebec.

OTHER AWARDS & SPECIAL HONORS

Jesse Werner, Chairman and President of GAF Corporation, was named Chemical Industry Medalist for 1972 by the Society of Chemical Industry, American Section. Dr. Werner is particularly known for his pioneer work in the field of high pressure acetylene chemistry.

Paul J. Smith was selected as an Honorary Member of Committee D-13 on Textile Materials, American Society for Testing and Materials. For many years, he acted as ASTM technical liaison representative to the Committee.

Clifford L. Sheckler was awarded a plaque by the Asbestos Textile Institute for outstanding leadership in the field of environmental health.

Certain-teed Products Corporation won the top prize for the best overall sales promotion program entered in the 1972 Drummer Awards competition sponsored by Building Supply News magazine. Also awarded to Certain-teed was a bronze medal at the New York International TV & Film Festival for a corporate film entitled, "America the Beautiful". . . . Certain-teed received the Award of Merit from Travelers Insurance Company for attaining a rate safety record at its asbestos-cement pipe plant at Ambler, Pennsylvania. . . . Special certificates were awarded at Certain-teed's Santa Clara, California, asbestos-cement pipe plant commemorating the achievement of a pipe industry record for the lowest mechanical and production downtime during a one-year period.

RETIREMENTS

Best wishes for good health and happiness are extended to the following gentlemen who have retired:

Hans R. Benecke, Managing Director, Everite Ltd. (remains as a non-executive member of the Board);

C. B. Brown, Director, Bell Asbestos Mines Ltd. (former President of Turner & Newall (Overseas) Ltd.);

Dudley T. Colton, Sr., Senior Vice President, Johns-Manville Corporation & President, J-M International;

Lionel Dawson, Director, The Cape Asbestos Co. Ltd.;

André Emsens, Chairman, Companie Financiere Eternit S.A., & Director, Asbestos Corporation Ltd.;

Carl A. Gnam, Ccmmodity Specialist, Bureau of Domestic Commerce, U.S. Department of Commerce;

Clement B. Mason, Quarry Superintendent at Lowell, Massachusetts, GAF Corporation:

Irving E. Matthews, Plant Manager at Lowell, Massachu-

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setts, GAF Corporation;

W. Melvin, Factory Secretary at Brackenfell, Everite Ltd.;

Donald A. Metz, Co-Founder of Van Horn, Metz & Company, Inc.;

Lt. Col. George W. Smith, Director & former President, Bell Asbestos Mines Ltd.;

F. Parker Smith, President, Bell Asbestos Mines Ltd. (now serving as Vice-Chairman for the company);

Herbert E. Sunbury, Executive Secretary & Assistant Treasurer, Asbestos Textile Institute;

Edward C. Wood, Director, Asbestos Corporation Ltd.

DEATHS

Word of the demise of the following Industry men was received during the year. Our sincere condolences to their respective families and friends.

Alvin M. Brown—February 3, 1972; age 78; retired Vice President for Finance, Johns-Manville Corporation.

Dudley T. Colton, Jr.—February 13, 1972; age 43; Manager for Division Planning, Residential Products Division, Johns-Manville Corporation.

James P. Ennis—June 13, 1972; Chairman of the Board; Shook & Fletcher Insulation Company, Birmingham, Alabama.

Gordon H. Gibbs—October 1972; age 63; consulting mining engineer and internationally recognized expert on asbestos; Willowdale, Ontario.

Albert E. Hutchinson—June 19, 1972; age 61; General President, International Association of Heat and Frost Insulators and Asbestos Workers.

Victor C. Lindsay—November 18, 1971; Quality Control Supervisor, Jeffrey Mine, Canadian Johns-Manville Co. Ltd.

P. Reed Turnbull—April 1, 1972; retired Vice President, Johns-Manville Corporation.

PROCESSING, HANDLING & CONSTRUCTION

Liquids and solids separation equipment for processing and pollution control are featured in Bulletin G-48 issued by *C-E Bauer.*

Literature describing the Mark II line of electronic flow scales for handling high volumes of bulk materials is available from the *Construction Products Division of Gerald C. Bower, Inc.,* Orange, California. . . . Without interruption in production, the Bower Automatic Sampler is said to easily and accurately sample conveyor-carried bulk materials.

Catalog 20 describes sampling techniques for liquids or slurries using the ISOLOK Series M-4 Samplers available from *Bristol Engineering Company,* Yorkville, Illinois.

Byron Jackson Inc., Long Beach, California, a Borg War-

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ner subsidiary, introduced a portable, double-duty BJ Hydraulic Bazooka that combines the economical advantages of speedy vertical transfer of dry materials with precision, automatic mixing.

J I Case Company, Racine, Wisconsin, a Tenneco company, has a variety of literature available concerning its line of construction equipment, such as the 580B Construction King Loader-Backhoe, Uni-Loaders, the 880 Excavator, the 1150 Loader and 1150 Dozer, and the improved W24B Loader.

The Thayer Scale Division of Cutler-Hammer Inc., Pembroke, Massachusetts, via Bulletin 5D62, reports that its Frequency Based Flow Controller, when used with the 1-128 Digital Flow Integrator, provides errorless flow rate control of variable speed-type weigh feeders and belt scales.

According to *E. I. du Pont de Nemours & Co.*, fluorocarbon and asbestos conveyor belts used in tandem are turning out vinyl tiles in a continuous process.

A line of boilers was introduced by *Eclipse Lookout Company*, Chattanooga, Tennessee. The boilers are designed to recover waste heat and to utilize it to generate steam or hot water.

Eriez Magnetics, Erie, Pennsylvania, announced Model 105B as an electro-permanent, magnetic drive feeder having an hourly feed rate of 500 tons, and a line of HI-VI heavy-duty vibratory feeders with feed capacities ranging from 50-350 tons per hour.

The Weighing Systems Division of Fairbanks Morse, St. Johnsbury, Vermont, supplies a range of electronic belt conveyor scales that weigh materials as they are being belt-conveyed and show the accumulated total on an electronic display instrument.

The APK Series of Hazemag Impactors, designed for heavy-duty, high-wear applications, are described in Bulletin EH-140-6079, available from *Hazemag (Canada) Ltd.*, Pointe Claire, Quebec, or from *Hazemag USA Inc.*, Uniontown, Pennsylvania. . . . Bulletin EH-106-6066 is concerned with Hazemag Cam operated Double Pendulum Flap Gates, designed for feeding and discharging fine, coarse and fibrous materals to and from air-tight systems.

The Manufacturers Equipment Company, Dayton, Ohio, announced a line of dry bulk materials handling disc feeders and issued a booklet on industrial apron feeders, engineered to handle rough, jagged, wet and hot materials and to move bulk raw materials, material in process and industrial wastes.

HI-PRO Shaker Screens with custom-hooked edges are available to fit all vibrating-type sifting machines, according to *Newark Wire Cloth Company*, Newark, New Jersey.

National Controls, Inc., Santa Rosa, California, has a line of weigh feeders incorporating its DIGIFLEX Scale configura-

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tions to control the proportioning of materials into a process.

The four steps that should be considered when developing an industrial or process weighing system are given in "Electronic Answers to Today's Weighing Problems," issued by *Orbitran Company, Inc.*, Lakeside, California. . . . Two systems recently introduced by Orbitran are the Weigh-Log Computer Model WL-10 which is a solid-state digital weighing, ticket-printer recording and display system, and the Force Computer Model 880, a modular digital computer for industrial weighing and process control.

Procedyne Corporation, New Brunswick, New Jersey, added a line of intermediate capacity, continuous process fluid bed dryers to its FBD Series. . . . Bulletin AW-100-1 describes Procedyne's AW Series Fluid Bed Dryers for many difficult-to-fluidize products.

Six types of pneumatic conveying systems are described in Bulletin 2001 by *Sprout, Waldron & Co., Inc.*, Muncy, Pennsylvania. . . . Another brochure, Storage Bulletin 6020, gives data on S-W's industrial bolted steel bins.

Universal Engineering Corporation, a subsidiary of Pettibone Corporation headquartered in Cedar Rapids, Iowa, issued a catalog featuring its line of aggregate processing equipment.

A variety of literature was printed by *Vibra Screw Inc.*, Totowa, New Jersey, including a pocket calculator for determining the right size of Bin Activator for discharging a specific dry bulk material from a given size storage bin, Technical Brochure BA-71 on improvements to Bin Activators, Bulletin SF-3 on Volumetric Live Bin Screw Feeders, Technical Bulletin T-106 to assist with problems encountered when unloading flow-resistant materials from portable bins, Bulletin T-108 on installing vibrating Bin Activators in discharge holes to improve the release of bulk materials stored in outdoor piles, and Bulletin T-110 on how the use of a new concept eliminates flow stoppages when discharging bulk materials such as asbestos from self-unloading barges.

Vibranetics, Inc., Louisville, Kentucky, describes vibrating bin and storage pile dischargers in Bulletin 102 and vibrating feeders in Bulletin 201.

TESTING & ANALYSIS

Applications Folder AAS-1, from *Corning Scientific Instruments, Corning Glass Works*, Medfield, Massachusetts, cites the use of atomic absorption spectroscopy to analyze cement.

CRIterion Instruments Ltd., Don Mills, Ontario, added Model CG-166 to its reflection meters series. One of the search head units for the new Model is used for specification testing of asbestos tiles, asbestos-cement and similar products.

Capabilities of its Measurements Laboratory were increased

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by *Dynatech Corporation*, Cambridge, Massachusetts, by adding high-speed mechanical properties testing equipment.

MODULIT is a new system of technical literature that discusses electronic moisture measurement principles. It was published by *Forte Engineering, Division of Kingsbury Technology, Inc.*, Natick, Massachusetts.

GEOScience Instruments Corporation, Mount Vernon, New York, introduced the ANALYT 10 as an automatic riffler that provides reproducible samples for grain-size determinations.

According to the *Pneumoconiosis Research Unit of the South African Medical Research Council*, the electron diffraction method may be used to identify single fibers of UICC standard samples of Amosite, Anthophyllite, Crocidolite, Chrysotile A and Chrysotile B. A reprint of the entire report titled "Electron Diffraction Patterns of UICC Asbestos Samples" is obtainable from the National Research Institute for Occupational Diseases, Box 4788, Johannesburg.

TRADE ASSOCIATIONS

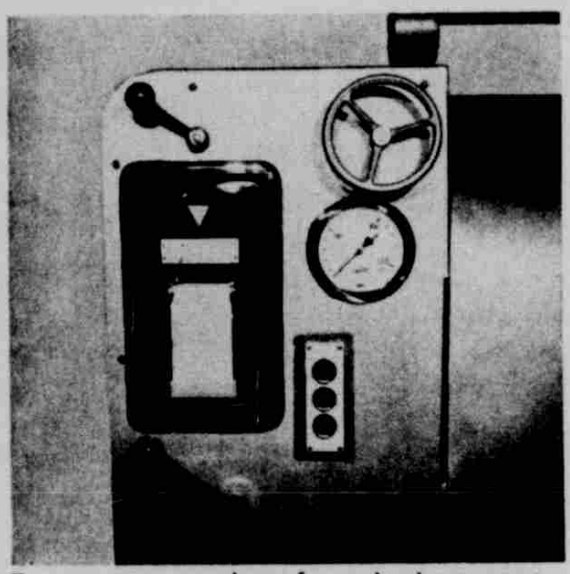
A variety of information including listings of new, revised and discontinued Standards was recorded this past year for organizations such as the American Society for Testing and Materials, Asbestos Textile Institute, British Standards Institution, Canadian Government Specifications Board, Canadian Institute of Mining and Metallurgy, Canadian Roofing Contractors Association, Friction Materials Standards Institute, Indian Standards Institution, Instrument Society of America, Mining Association of Canada, and the Quebec Asbestos Mining Association. Following is a cataloging of some of the associations' activities reported.

ASTM

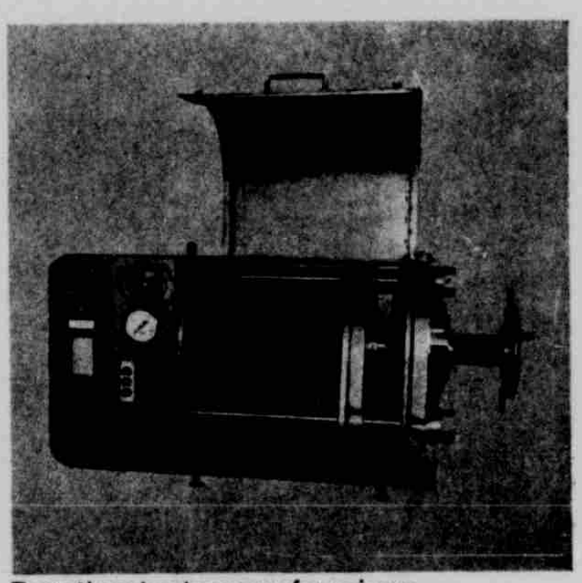
S. J. Golub, of Fabric Research Laboratories, was elected Chairman of Committee *D-13* on Textiles. Asbestos textiles are the concern of Subcommittee *D13.14, A-4 on Asbestos*, chaired by Paul O. Nicodemus of General Electric Company. . . . Subcommittee *D22.04* was established to develop techniques for sampling and analysis of occupational atmospheres. . . .*D-30* on High Modulus Fibers and Their Composites is developing materials specifications in addition to standard materials tests. . . . *E-32* was formed to establish Criteria for Evaluating Agencies concerned with Systems Analysis, Testing and/or Compliance Assurance of Manufactured Building. . . . *F-6* on Resilient Floor coverings is continuing its work on standards for materials such as vinyl-asbestos floor coverings. . . . Subcommittee *G-03.06* was formed to study the deterioration of pipe-line coatings and linings. . . . "Mass" or "force" will be the *preferred terminology* used in ASTM Standards instead of

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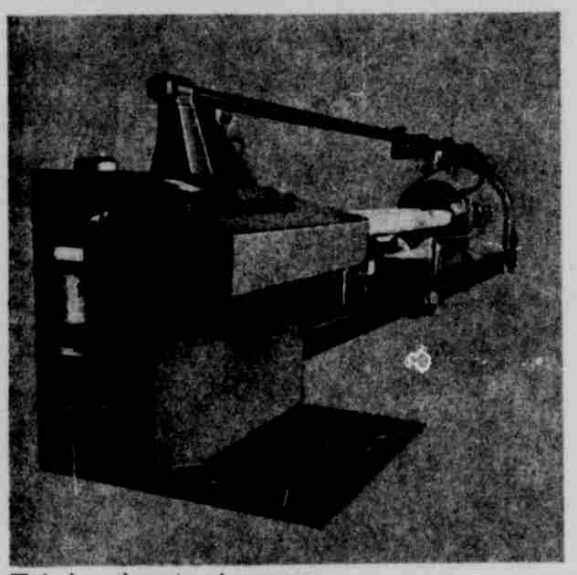
Choose performance and efficiency



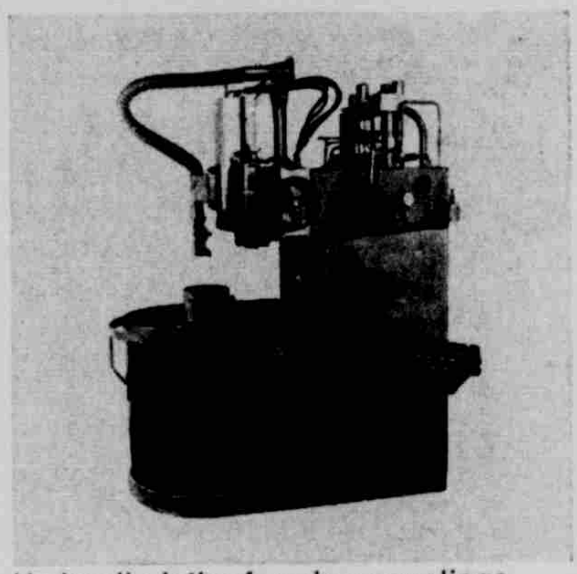
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the term "weight". . . . Among the *articles* published by ASTM were "New Quality Parameters for Gasket Selection" and "Computer-Aided Mechanical Testing of Composites". . . . The Society will *change the names* of two of its publications. Effective in 1973, "Materials Research and Standards" will become "Standardization News" and the "Journal of Materials" will be known as the "Journal of Testing and Evaluation."

ATI

Work is continuing on the Third Edition of the "Testing Procedures for Chrysotile Asbestos Fiber" manual. The new issue, as in the past, will be jointly sponsored by the Asbestos Textile Institute, the Asbestos Cement Products Association and the Quebec Asbestos Mining Association.

CRCA

The Canadian Roofing Contractors Association issued bulletins concerned with insulated steel decks, roofing aggregates, Factory Mutual and Underwriters' Laboratories, and the effects of thermal shrinkage on built-up roofing. . . . On May 1, the national office of CRCA relocated from Montreal to 116 Albert Street, Ottawa.

FMSI

New offices were opened by the Friction Materials Standards Institute at the Bergen Mall Office Center, East 210 Route 4, Paramus, New Jersey.

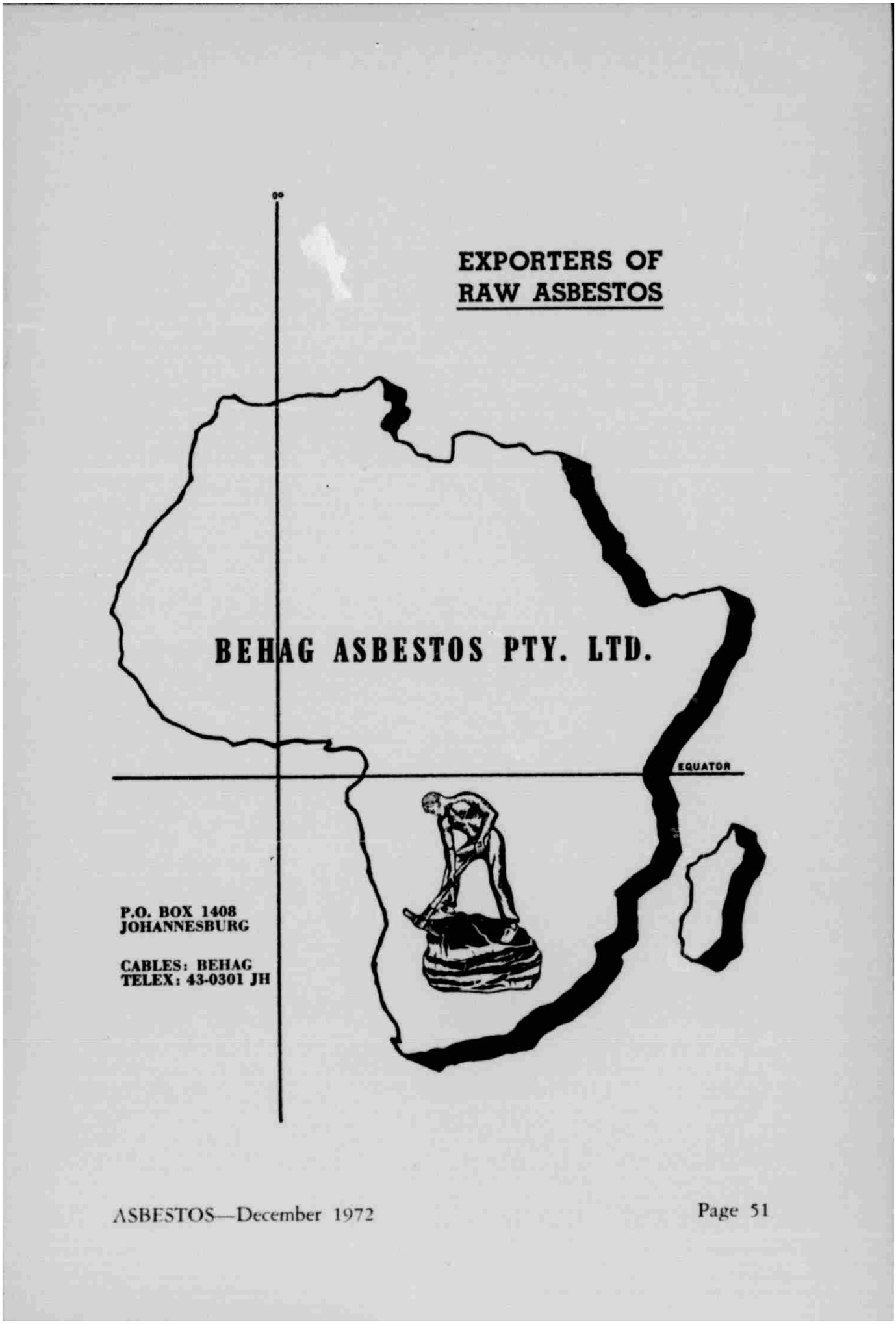
IMM

The Mineral Industry Research Organization was founded as a result of discussions initiated by the Institution of Mining and Metallurgy. Supporting companies of MIRO include those engaged in finding, mining and processing minerals, in the recovery of metals from primary and secondary sources and in the supply of engineering and equipment to the mineral industry. The new organization will identify topics of broad interest to its members on which research might be commissioned at laboratories and universities.

OTHER LITERATURE

Asbestos in Canada 1971—Quebec Asbestos Mining Association, Montreal, Quebec; *What Mining Means to Canada 1971* and *Facts & Figures on Mining in Canada 1971*—The Mining Association of Canada, Ottawa, Ontario; *Canadian Mines Handbook 1972-73*—Northern Miner Press, Ltd., Toronto, Ontario ($8.00 per paper copy); *Insulation Handbook 1972*—Lomax Erskine & Co. Ltd., London, England (L1.00); *Proceedings of the First International Symposium on Transport and Handling*

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of Minerals—World Mining, San Francisco, California ($2.50 per copy, post paid); *Strength Properties of Rocks*—part of a series of five books by Dr. W. Dreyer on rock and soil mechanics available from Trans Tech Publications, Cleveland, Ohio ($25.00); *Mineral Exploration, Mining & Processing Patents 1971*—by O. S. North, Arlington, Virginia ($25.00); *Mining Annual Review 1972*—The Mining Journal Ltd., London, England ($10.50); *Statistical Summary of the Mineral Industry 1966-70*—Her Majesty's Stationery Office, London, England (L1.80); *Bureau of Mines Grants for Research*—U.S. Bureau of Mines, Washington, D.C.; *Administration of the Federal Metal & Non-metallic Mine Safety Act*—1970 Annual Report of the Secretary of the Interior available from the Superintendent of Documents, Washington, D.C. (60c); *Designing and Planning Open-Pit Mining Operations with Computer Simulation Solutions*—open file report available for reference at the Central Library, U.S. Department of the Interior, Washington, D.C.; *Contribution to the Determination of Disintegrator Operation Effect in the Process of Asbestos Ore Crushing on the Content and Structure of Asbestos Fiber*—article written in Yugoslavian and printed in the "Bulletin of Mines."

Articles recorded as having appeared in issues of the *CIM Bulletin,* published by the Canadian Institute of Mining and Metallurgy, include: Planning the Development of a Mining District—An Eastern European Approach; A Proposal for Monitoring Mine Ventilation Air Volumes; Wet Collectors Control Dust and Air Pollution; Magnetic Properties of Asbestos with Special Reference to the Determination of Absolute Magnetite Contents; Routine Dust Measurements and Standards; Design and Construction of Tailings Dams; Composition of the Asbestos Tailings from the Mines in the Eastern Townships of Quebec; Density and Porosity Concepts for Asbestos and Other Minerals; and The Outlook for Asbestos in Canada.

The *Instrument Society of America* made available the following publications: 1972 ISA Instrumentation Publications Catalog; ISA Electrical Safety Publications; Digital Computer Applications to Process Control ($42.00); and Electrical Instruments in Hazardous Locations ($24.00).

A variety of articles published in *Construction Materials,* written in Russian, include: Complex Automation of Asbestos-Cement Production; Investigating the Granulometric Composition of Asbestos with the Aid of Micromeasurements; New Targets of the Asbestos-Cement Industry; Influence of the Homogeneity of an Asbestos-Cement Suspension on the Physical and Mechanical Properties of Components; Dehydration of the Asbestos-Cement Body in the Head Part of a Sheet-Moulding Machine; Experience Gained in Fabricating Non-Pressure Asbestos-Cement Pipes by the Extrusion Method; The Building Material Industry of the Czechoslovakian Socialist Republic;

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Fiber Production by the Flow Method; and Equipment for Painting Asbestos-Cement Constructions.

Books published by *Noyes Data Corporation,* Park Ridge, New Jersey, are: Adhesives 1972 ($36.00); Noncatalytic Auto Exhaust Reduction 1972 ($36.00); Pollution Analyzing and Monitoring Instruments 1972 ($36.00); Pollution Control Companies U.S.A. 1972 ($24.00); Fine Dust and Particulates Removal 1972 ($36.00); and Cement and Mortar Additives 1972 ($36.00).

Reports that may be ordered directly from the *National Technical Information Service,* Springfield, Virginia 22151, include: AD717444—Asbestos and Surface Treated Asbestos as Reinforcing Agents for Thermoplastics and Rubbers ($3.00); PB207710—Calculation of Amphibole Structural Formulae ($3.00); PB209751 & PB209752—Environmental Research & Laboratories in the Federal Government ($6.00 each); PB210-304 & PB210305—Literature Survey of the Field of Fiber Reinforced Plastic Composites ($3.00 each); and PB210561—Systems Analysis Study for Research and Development of Respiratory Devices ($9.00).

In Closing . . . .

We were pleased to have had the opportunity to print the series by J. A. Bettes, Jr., on the "History of the Asbestos Textile Industry in the United States" and hope you enjoyed reading the chapters as much as we took pleasure in publishing them.

In an effort to keep you informed of vital happenings in the Industry around the world, ASBESTOS carried, in the January issue, Greetings to the Industry from various leaders in the business, and throughout the year ran excerpts from the annual reports of several asbestos mining and/or manufacturing firms. The journal endeavored to keep you abreast of newly-issued patents that were concerned in some way with asbestos. As we glance over the list, we find many interesting, and often unique, uses for the "magic mineral." The list is comprehensive and if you would like a set of the patent abstracts as listed in ASBESTOS, back issues of the magazine are available for just 50c per copy. Other items in ASBESTOS were concerned with a variety of trade and licensing opportunities, the general business situation, construction news, motor vehicle factory sales, and a calendar of coming events. We hope you found value in being advised of the current positions of your business associates and friends, through the regularly-featured Birthday Greetings and Men on the Move sections, and that you experienced a nostalgic moment or two as you "Remembered When?".

Please don't forget that we are always interested in re-

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viewing news about you and your company. Just send us the facts, in outline form, and we'll write the article.

"The U.S. economy is expected to exceed the official target of 6% growth in 1972, providing a springboard for another vigorous expansion in 1973," according to a mid-year follow-up report by the U.S. Department of Commerce to its "U.S. Industrial Outlook." We believe the Asbestos Industry will play a healthy role in this projected economic trend which will have impact on business and industrial activity around the world.

* * * * *

FRONT COVER ILLUSTRATIONS—1972

January—the Asbestos Story Ring, traditionally awarded to outstanding leaders in the asbestos mining and manufacturing industries throughout the world.

February—a series of nylon filter tubes installed in a typical dust collection system in an asbestos plant operated by Asbestos Corporation Ltd.

March—cable braiding with Fortex fine yarn produced by a wet dispersion process from Chrysotile asbestos fiber by Turner Brothers Asbestos Co. Ltd., a subsidiary of Turner & Newall Ltd.

April—installing Transite transmission pipe, manufactured by Johns-Manville Corporation; the largest project of its kind in Colorado, at Thornton near Denver.

May—penetrometer in use by laboratory technician at Carey-Canadian Asbestos to measure the viscosity of an asphalt-asbestos mixture.

June—a Littleford Mixer used by Raybestos-Manhattan, Inc., in its Stratford, Connecticut, plant in the manufacture of brake linings.

July—view of a needling machine in use at the Fernhill Mills of Thomas Hardman & Sons Ltd. to produce needled machine felts.

August—suction box covers in a herringbone pattern; made of a synthetic material and developed by Messrs. Leripa; marketed under the Robalit 61 trade name and used in asbestos cement machinery.

September—typical section of an asbestos-cement plant utilizing the Wehrhahn corrugating system; used by fully-automated a/c sheet production lines that have a remote-controlled transport system for pre-curing the sheet in a hardening tunnel.

October—site of open pit mine operated by Pacific Asbestos Corporation at Copperopolis, California.

November—asbestos safety curtains at the Kennedy Center for the Performing Arts, Washington, D.C.; tailored by W. E. Palmer Company and made from R/M metallic asbestos cloth, a product of Raybestos-Manhattan, Inc.

December—single Amosite fiber in asbestos cement, magnification X 1050; fiber has a maximum cross section of about 50 micron; photograph supplied by Cape Asbestos Fibres Ltd.

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TOPICAL INDEX OF FEATURE ARTICLES—1972

ASBESTOS CEMENT

Pipe Sealing Ring from Certain-teed (May, page 8)
Robalit 61 in Suction Box Covers (August, page 14)

ASBESTOS DUST CONTROL

EPA Proposed Emission Standards (January, page 18)
Department of Labor Temporary Emergency Standards (January, page 19)
OSHA Tightens Asbestos Dust Standards (July, page 4)

ASBESTOS TEXTILES

Tilon Asbestos Products (April, page 16)
Littleford Mixers in Brake Lining Manufacture (June, page 8)
Sailmaker Uses R/M Asbestos Textile (November, page 2)

GEOLOGY & MINING

Geology & Mining Operations at Pacific Asbestos Corporation (October, page 4)

HISTORY OF U.S. ASBESTOS TEXTILE INDUSTRY

Allbestos Corporation (February, page 2)
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Tallman-McCluskey Fabrics Company (May, page 2)
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About the Author, John A. Bettes, Jr. (September, page 15)

MINERAL FACTS & PROBLEMS/ASBESTOS CHAPTER

Research (January, page 34)
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Consumption Pattern (April, page 38; May, page 32)
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Demand & Construction (September, page 38)
Outlook & Uses (October, page 34; November, page 34)

Next Issue – Greetings from Industry Leaders

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Carey-Canadian Asbestos
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Certain-teed Products Corp.

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Lake Asbestos of Quebec, Ltd., a subsidiary of American Smelting & Refining Co.
Leripa (Leder- und Riemen-Patentverwertungsges, M.B.H.)

Lynn, Macleod Capital Equipment Ltd.

3M Company

National Gypsum Company
Nicolet Industries, Inc.

Pacific Asbestos Corporation
Peat, Marwick, Mitchell & Co.
Petrow (C.J.) & Co. (Pty.) Ltd.
Polyrez Company, Inc.
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Putten's Asbestos Corporation

Raybestos-Manhattan, Inc.
Rex Asbestwerke Graf von Rex KG
Riva Calzoni S.p.A.

Salvaneschi S.p.A.
Scandura Ltd., a member of the BBA Group
Scapa Textiles Ltd.
Simplicity Engineering
Smidth (F. L.) & Co. A/S
Special Asbestos Company, Inc.
Surveyer, Nenninger & Chenevert Inc. & General Engineering (1970) Co. Ltd.

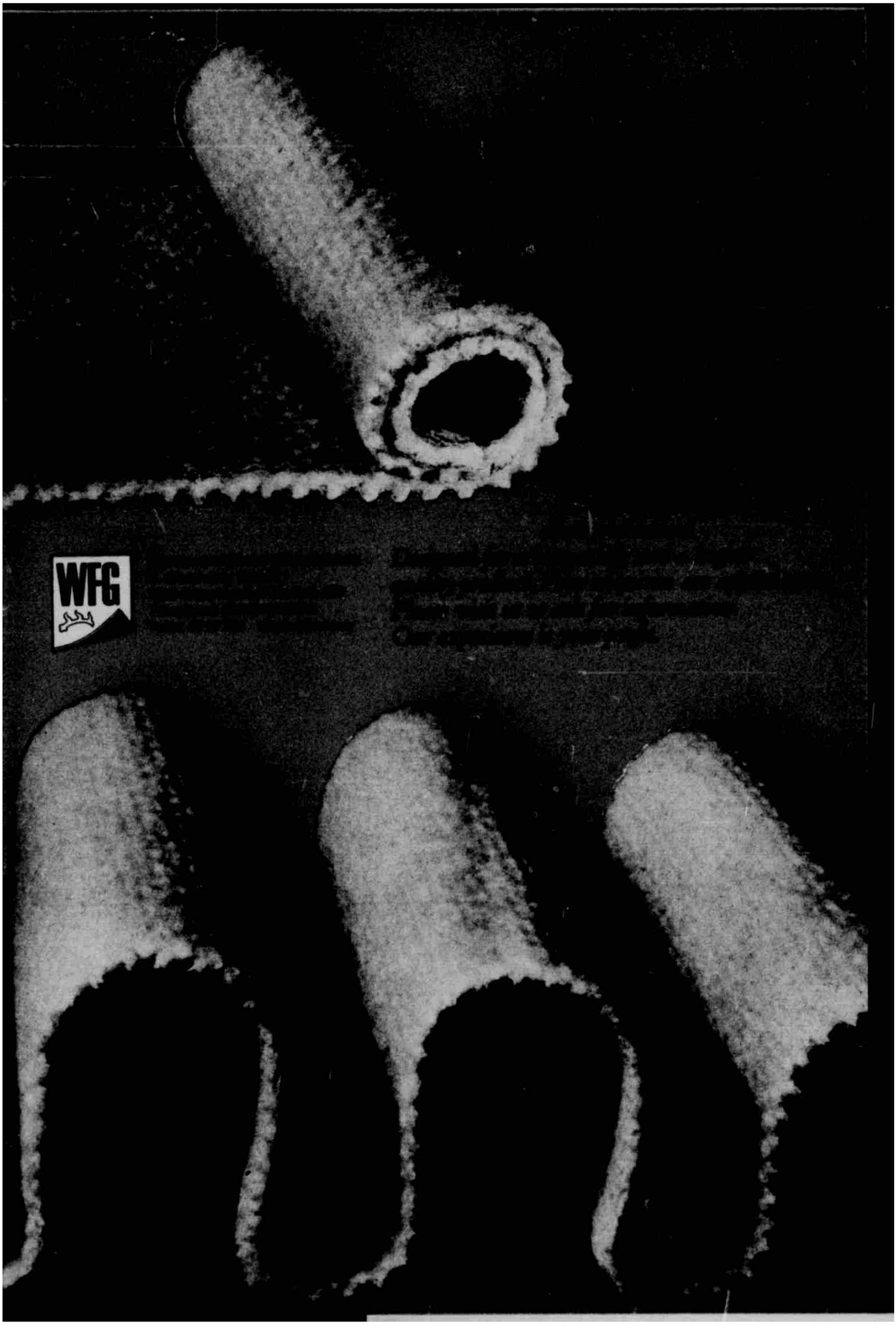
Uniroyal Fiber & Textile

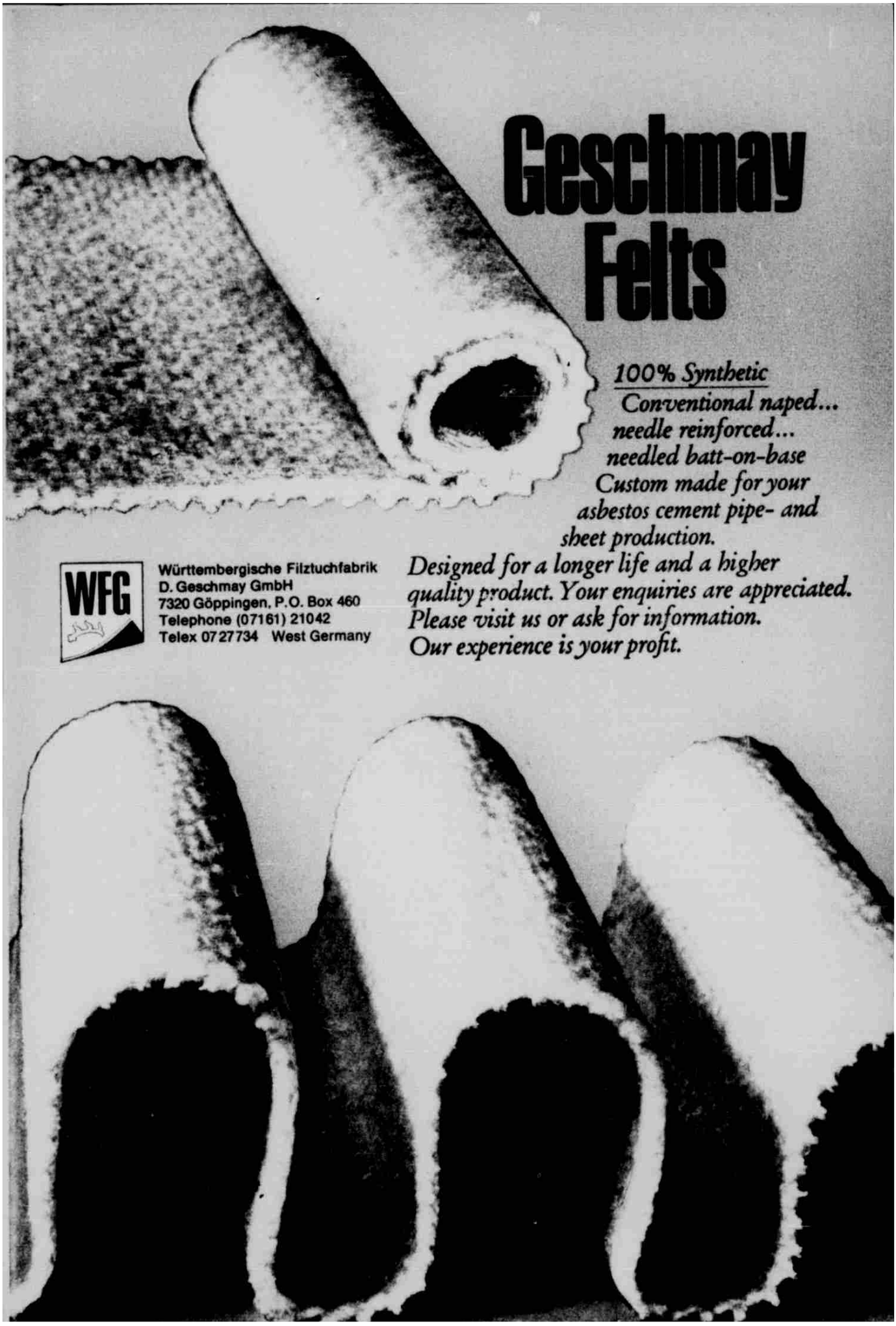
Valley Asbestos (Pty) Ltd.
Voith (J. M.) A.G.

Watts, Griffis and McOuat
Wehrhahn (Gebr.)
Welsh Manufacturing Company (a Textron Company)
Wurttembergische Filztuchfabrik D. Geschmay GmbH

INTERNATIONAL COMPUMEDICS CORPORATION
is welcomed as a new advertiser — see page 35

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WFG

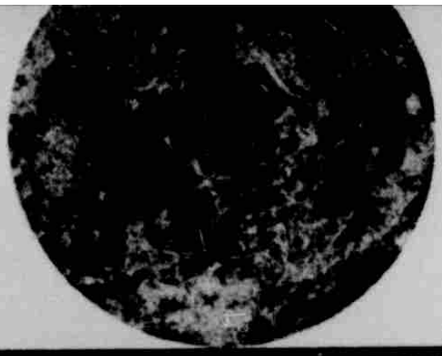

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ASBESTOS STOCK QUOTATIONS

Comparative Closing Prices	11/23/71	11/21/72
Abitibi Asbestos Mining	*$2.50	*$2.00
Advocate Mines	*$1.60	*$1.35
Allied Mining	*$3.05	*$3.15
American Smelting & Refining	16 1/2	17 7/8
Armstrong Cork	38 1/2	33 5/8
Armstrong Cork (pfd 3.75)	55 1/2	55
Asbestos Corporation	*$28.75	*$18.00
Bendix	38 1/4	48
Bendix (pfd 3)	58	73
Carlisle	17 1/8	21 3/4
Cassiar Asbestos	*$17.50	*$12.00
Cerro Corporation	11 5/8	14 7/8
Certain-teed Products	36 7/8	23 5/3
Certain-teed (pfd .90)	36	47
Charter Consolidated	..	**220
Conwest Exploration	*$7.50	*$5.75
Flintkote	28	27 1/4
Flintkote (pfd-A 4.50)	80	76
Flintkote (pfd-B 2.25)	39 1/2	37
Freeport Minerals	..	23 5/8
GAF Corporation	18 3/4	22
GAF (pfd 1.20)	24 3/8	28 1/4
Garlock	18 1/2	18 1/8
Grace, W. R.	25 3/8	27 3/8
Gulf & Western	22	37 1/4
Gulf & Western (pfd 3.50)	94	154 1/4
Gulf & Western (pfd 3.87)	56	69 1/4
Gulf & Western (pfd 5.75)	67 3/4	73 1/2
Illinois Central	32 1/2	31 1/8
Illinois Central (pfd 3.50)	58	55
Jim Walter Corporation	..	34 1/8
Jim Walter (pfd 1.60)	..	38 7/8
Jim Walter (pfd 1)	..	13 1/2
Johns-Manville	37 5/8	29 3/4
Kennecott Copper	..	22
Maremont	24 3/8	50 1/8
McAdam Mining	..	*$.41
National Gypsum	17 3/4	19
Pathfinder Resources	*$.83	*$.83
Porter, H. K. (pfd 5.50)	68 1/2	82 1/2
Raybestos-Manhattan	23 3/4	28
Rio Algom Mines	..	*$18.00
Royal Industries	11	12 1/4
Unarco Industries	13	9 7/8
Union Carbide	39	48
Uniroyal	15 3/4	15 3/4
Uniroyal (pfd 8)	101 1/2	102 1/2
United Asbestos	3 1/2	4

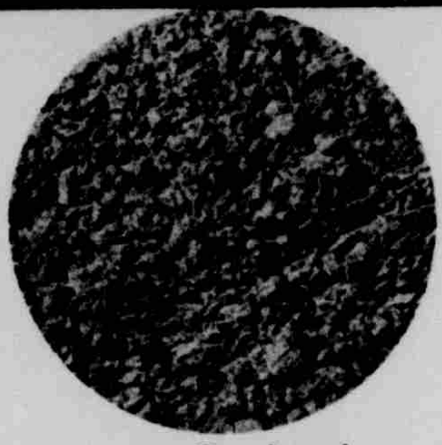
*Canadian Currency
**London—in pence
Sources: The Wall Street Journal & The Northern Miner

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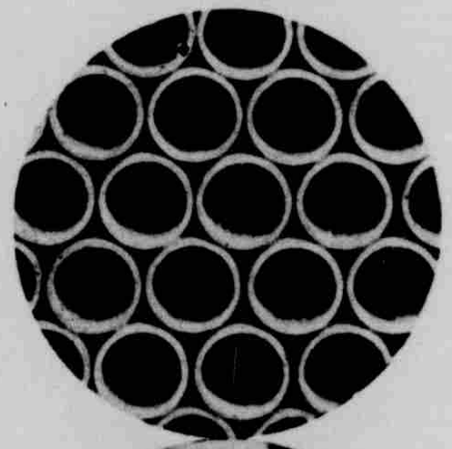
VOITH

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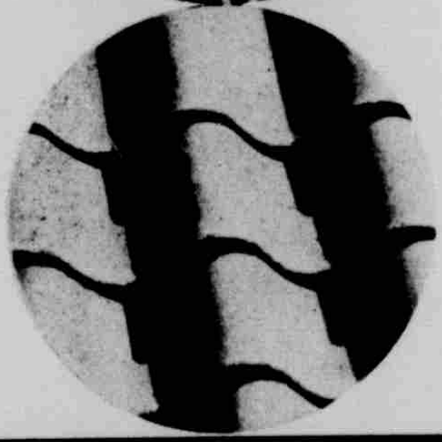
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Hatschek-type sheet machines with two, three or four cylinder moulds

Pipe machines with one or two cylinder moulds



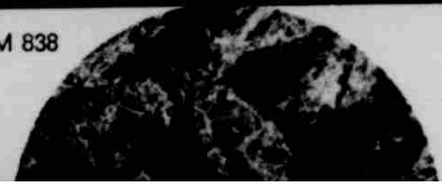
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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**JULY 1972**	
Amosite, Mozambique	s.tons	35	$ 7,056
South Africa	s.tons	35	7,056
Crocidolite (Blue), South Africa	s.tons	457	106,321
Chrysotile, Crude, Rhodesia	s.tons	105	52,800
South Africa	s.tons	101	21,727
Chrysotile, Spinning Fibers, Canada	s.tons	876	344,289
Yugoslavia	s.tons	843	11,503
Chrysotile, Other, Canada	s.tons	60,777	6,495,823
Other Crudes & Fibers, Canada	s.tons	382	77,919
Finland	s.tons	63	7,259
Mozambique	s.tons	564	112,986
		64,238	$ 7,244,739
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	308,135	$ 255,810
A-C pipes, tubes and fittings	Lb	2,608,641	151,587
A-C articles, other	Lb	1,199,823	196,098
Asbestos articles, other		..	181,605
			$ 785,100
Unmanufactured Asbestos:		**JANUARY-JULY 1972**	
Amosite, Mozambique	s.tons	68	$ 11,829
South Africa	s.tons	4,645	888,471
Crocidolite (Blue), Bolivia	s.tons	29	2,966
South Africa	s.tons	2,520	572,731
Chrysotile, Crude, Canada	s.tons	2	2,100
Rhodesia	s.tons	105	52,800
South Africa	s.tons	936	240,057
Chrysotile, Spinning Fibers, Canada	s.tons	7,397	3,444,606
Yugoslavia	s.tons	843	11,503
Chrysotile, Other, Canada	s.tons	423,530	47,439,077
Other Crudes & Fibers, Canada	s.tons	1,934	249,292
Finland	s.tons	1,149	75,251
Greece	s.tons	6	1,361
Italy	s.tons	1	1,111
Mozambique	s.tons	597	117,759
South Africa	s.tons	691	118,972
Switzerland	s.tons	4	1,538
Yugoslavia	s.tons	843	42,611
		445,300	$53,274,035
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	2,451,907	$ 2,229,098
A-C pipes, tubes and fittings	Lb	26,818,879	1,338,456
A-C articles, other	Lb	11,158,298	1,788,314
Asbestos articles, other		..	1,449,537
			$ 6,805,405

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EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**JULY 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,931	$ 403,443
Waste and refuse	s.tons	950	117,271
		2,881	$ 520,714
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,468,730	$ 159,095
Other a-c fiber-cement articles	Lb	2,726,702	266,917
Gaskets	Lb	45,086	77,127
Packing	Lb	315,340	540,966
Heat or sound insulation		..	97,383
Textiles and yarns	Lb	675,736	224,603
Protective clothing		..	13,168
Mfrs. other than friction materials		..	290,533
Cl. facings and linings for auto. use	No	126,777	82,964
Other clutch facings and linings	No	12,399	18,332
Brake linings for automotive use	Lb	440,979	286,347
Other brake linings	Lb	180,170	160,281
			$ 2,217,716

Unmanufactured Asbestos:		**JANUARY-JULY 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	14,248	$ 2,303,434
Waste and refuse	s.tons	14,768	1,924,773
		29,016	$ 4,228,207
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	12,729,992	$ 1,358,118
Other a-c or fiber-cement articles	Lb	5,847,641	732,821
Gaskets	Lb	324,641	628,685
Packing	Lb	2,653,584	3,770,009
Heat or sound insulation		..	1,011,582
Textiles and yarns	Lb	9,660,878	2,268,197
Protective clothing		..	109,925
Mfrs. other than friction materials		..	2,319,638
Cl. facings and linings for auto.use	No	1,216,487	1,003,324
Other clutch facings and linings	No	590,380	290,292
Brake linings for automotive use	Lb	3,821,541	2,718,226
Other brake linings	Lb	1,674,486	1,354,022
			$17,564,839

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EXPORTS FROM CANADA

Figures from Statistics Canada

JULY 1972

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	4	971	32,070	10,212
Eastern Europe	..	..	240	..
Middle East	..	..	2,150	616
Africa	..	..	1,424	127
Asia	..	216	7,244	12,581
Oceania	..	1	3,193	1,140
So. & Cen. America & Antilles	..	75	7,219	2,214
United States	..	1,128	16,045	40,349
	4	2,391	69,585	67,239

The total amount of unmanufactured asbestos exported in *July 1972* was 139,219 short tons, valued at $21,067,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 80,000
Asbestos-cement building materials	124,000
Other basic products	141,000
	$ 345,000

JANUARY-JULY 1972

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	17	5,910	131,953	73,780
Eastern Europe	..	50	15,217	396
Middle East	..	40	12,025	2,900
Africa	..	..	5,015	1,346
Asia	5	1,994	44,910	58,014
Oceania	..	38	25,693	6,543
So. & Cen. America & Antilles	..	394	37,883	15,625
United States	15	8,930	117,638	301,702
	37	17,356	390,334	460,306

The total amount of unmanufactured asbestos exported in *January-July 1972* was 868,033 short tons, valued at $124,156,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 436,000
Asbestos-cement building materials	1,316,000
Other basic products	1,442,000
	$3,194,000

Have you ordered your copy of

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BIRTHDAY GREETINGS to . . .

Walter D. Baldwin, Vice Chairman of the Board & Vice President-Administration, Uniroyal, Inc., New York City, January 16.

Phillip C. McCarroll, Factory Superintendent, Wunderlich Ltd., Rosehill, N.S.W., Australia, January 16.

John K. Whittaker, Executive Vice President, Nicolet Industries, Inc., Ambler, Pennsylvania, January 18.

Leif Egeland, Director, Cape Asbestos Insulations (Pty.) Ltd., Benoni South, Transvaal, South Africa, January 19.

T. M. McKain, Managing Director, Marinite Ltd., Glasgow, Scotland, January 21.

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 Company, Inc., Charlotte, North Carolina, January 22.

J. W. Zaha, Works Manager, Thermoid Division, H. K. Porter Company, Inc., Bennettsville, South Carolina, 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, Product Marketing Manager, Asbestos Fibre Division, Johns-Manville Corporation, Denver, Colorado, January 27.

Herbert S. Hirschfeld, Manager, Standard Insulation Company, New York City, January 27.

Malcolm E. Schumann, Jr., General Manager, Raybestos-Manhattan (Canada) Ltd., Peterborough, Ontario, January 28.

J. G. Mackeurtan, Chairman & Managing Director, Cape Asbestos South Africa (Pty) Ltd., Johannesburg, South Africa, January 29.

Nelson Bain, President, Asbestos Erectors of Canada Ltd., Montreal, Quebec, February 1.

Clement J. Clarke, Jr., Secretary, Amatex 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, Jr., General Manager-Uniroyal Fiber and Textile & Vice President, Uniroyal, Inc., New York City, February 4.

George F. Ducker, Vice President & General Manager, North Charleston, S.C., division of Raybestos-Manhattan, Inc., February 5.

C. G. Bourne, Production Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, February 8.

A. Joseph Fontana, Departmental Vice President-Personnel, Uniroyal, Inc., New York City, February 8.

R. H. Dent, Chairman, The Cape Asbestos Company, Ltd., London, England, February 9.

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NEW ASBESTOS PATENTS

British 1,277,271—In the manufacture of high-quality calcium silicate hydrate products, the aqueous asbestos-lime-diatomite mixture is reacted in an autoclave so as to form primarily tobermorite crystals interlocked with one another and entangled with asbestos; assigned to Kabushiki Kaisha Osaka Packing Seizosho, June 7, 1972; 22 pages.

British 1,277,272—In the manufacture of high-quality calcium silicate hydrate products, the aqueous asbestos-lime-diatomite mixture is reacted in an autoclave so as to form primarily xonotolite crystals interlocked with one another and entangled with asbestos; K. Kubo; assigned to Kabushiki Kaisha Osaka Packing Seizosho, June 7, 1972; 21 pages.

British 1,277,658—A fire-resistant roof covering is produced by impregnating a mineral wool-cellulose felt with a low-softening, high-penetration asphalt, the impregnated base coated with a mixture of asbestos, rock dust and a higher-softening, lower-penetration asphalt, and the coated felt dusted with micronized mica or talc; J. F. Schroeder; assigned to U.S. Gypsum Co., June 14, 1972; 3 pages.

British 1,278,473—A refractory composition for hot topping uses in the foundry or steelworking industries comprises colloidal silica, aluminum phosphate, sodium silicate and at least two inorganic fibers selected from asbestos, aluminum silicate and calcium silicate; E. J. Jago & R. R. Dzurilla; assigned to Foseco Trading A.G., June 21, 1972; 4 pages.

Canadian 904,236—In the preparation of a fiber product of short fiber length and high-degree of fiber separation, crude Chrysotile is slurried, the aqueous suspension beaten, the fibers separated by filtering or centrifuging, and the separated fibers further shortened first by hammer milling and then by milling in pinned disc mills and/or gas jet mills; G. Turk, H. Fratzscher & K. Achenbach; assigned to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler, July 4, 1972; 21 pages.

Canadian 904,250—Zeolitic molecular sieve bodies resistant to thermal shock are made by agglomerating and calcining an aqueous slurry consisting of 5-95% by weight of the solids of zeolitic molecular sieve crystals, 2-90% of asbestos, and about 10% of bentonite; R. J. Neddenriep & E. M. Flanigen; assigned to Union Carbide Corporation, July 4, 1972; 13 pages.

U.S. 3,670,063—In the production of molded sheets, a mixture of a low-cost mineral filler, a polyester or acrylic resin, and asbestos fiber or glass fiber is formed into a fluffy mass, the fluffy mass deposited on a conveyor and the material on the conveyor compacted into sheets; G. B. E. Schueler; assigned to Redland Bricks Ltd., June 13, 1972; 7 pages.

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The Greeks didn't have a word for it.

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CALENDAR OF EVENTS

ASTM COMMITTEE E-32 on Criteria for Evaluating Agencies Concerned with Systems Analysis, Testing and/or Compliance Assurance of Manufactured Building—Diplomat, Hollywood, Florida; *January 8-10.*

ASTM COMMITTEE E-18 on Sensory Evaluation of Materials and Products—Schrafft's, Ft. Lauderdale, Florida; *January 8-10.*

UNIVERSITY OF WISCONSIN-EXTENSION—Continuing Education Programs scheduled in *January* at the *Milwaukee* campus include: Fundamentals of Rock Mechanics, *8-12;* Advanced Topics in Mechanics of Materials, *8-12;* Data Processing by Optical Diffraction Analysis, *15-16;* Systematic Planning of Industrial Facilities, *23-24;* and Metric Standards Institute, *25-26.* Courses to be held at the Madison campus are: Critical Path Method Workshop, *10-12;* New Residential Inspection, *10-12;* and Building Inspection, *15-19.*

ASTM COMMITTEE E-7 on Nondestructive Testing—Schrafft's, Ft. Lauderdale, Florida; *January 15-18.*

INTERNEPCON/Japan 1973—Industrial and Scientific Management, Inc., Conference and Exhibition; Harumi Exhibition Center, Tokyo, Japan; *January 17-20.*

ASTM COMMITTEE C-24 on Building Joint Sealants—Sheraton Biltmore Hotel, Atlanta, Georgia; *January 21-23.*

NATIONAL WESTERN MINING CONFERENCE/EXHIBITION—76th annual event; Colorado Mining Association, Denver, Colorado; *February 7-10.*

ASBESTOS TEXTILE INSTITUTE—General Meeting Hyatt Regency Atlanta, Atlanta, Georgia; *February 8-9.*

ASSOCIATION OF ASPHALT PAVING TECHNOLOGISTS—48th Annual Meeting; Rice Hotel, Houston, Texas; *February 12-14.*

CANADIAN ROOFING CONTRACTORS ASSOCIATION—14th Annual Meeting and Convention; Chateau Frontenac, Quebec City; *February 25-27.*

AMERICAN INSTITUTE OF MINING & METALLURGICAL ENGINEERS—102nd Annual Meeting; Chicago, Illinois; *February 25-March 1.*

ASTM COMMITTEE D-9 on Electrical Insulating Materials—during March Committee Week; Williamsburg Inn and Motor Lodge, Williamsburg, Virginia; *March 5-7.*

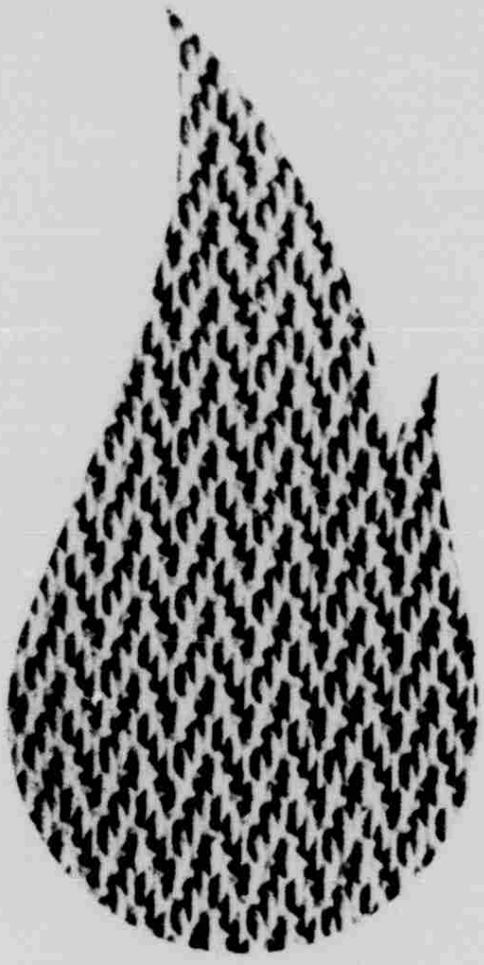
Happy Holiday Season —

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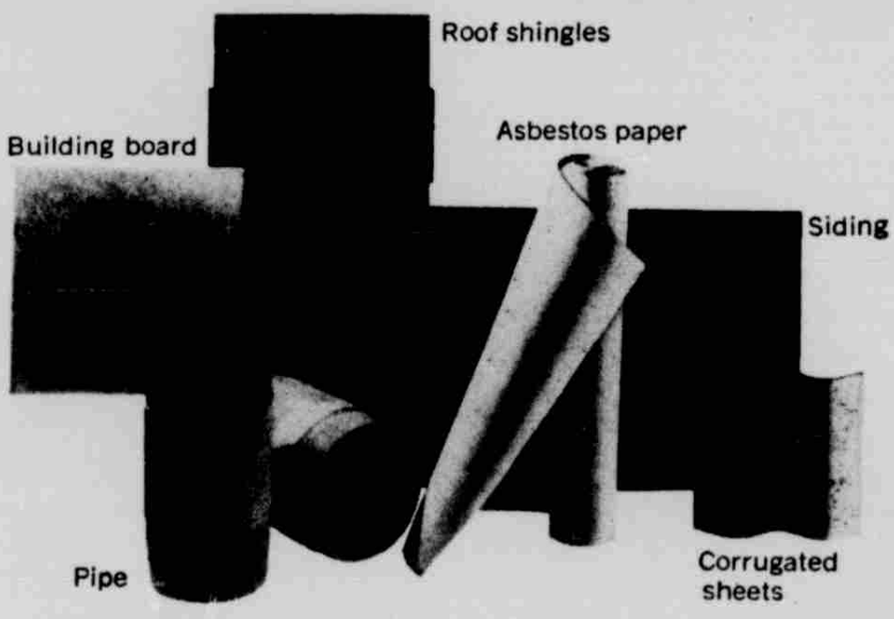
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