June 1973

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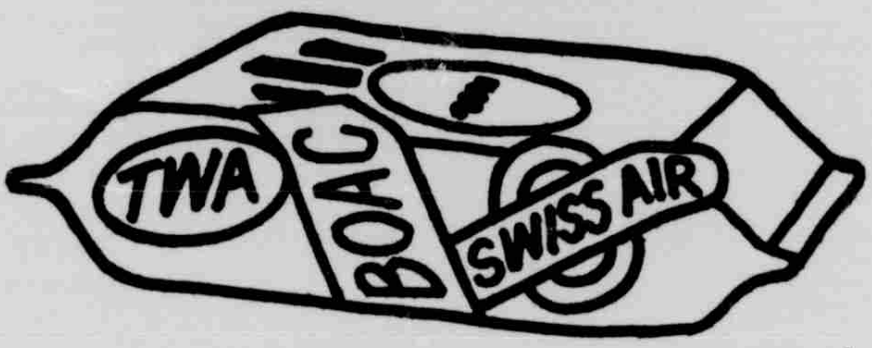
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ASBESTOS

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FERRO-TECH "DEMO-DISC" Solves Asbestos Dust Problems

[The following article was submitted by Ferro-Tech, Incorporated, Pittsburgh, Pennsylvania, whose business is the specialized field of converting fine materials into handleable, usable, dustless "agglomerates" for better processing, transporting, marketing, recycling or dumping. With management that includes specialists in fine materials processing, Ferro-Tech claims to be the only company in the United States to offer a Total Turnkey Systems approach to the three major methods of agglomeration, namely pelletizing, extruding and briquetting. Ferro-Tech offers the following types of agglomerators, some of its own design and fabrication and others through cooperation with recognized manufacturers of special equipment: pelletizing discs and pan granulators, pelletizing or balling drums, pugmills and paddle mixers or blenders, ammoniator-granulators, briquetting and compacting machines, and extrusion equipment.]

GENERAL

Agglomeration, by pelletizing, extruding or briquetting, has been practiced for many years on such common raw materials and products as taconite iron ore, lime, fertilizers, catalysts, plastics, fluorspar, and even instantized foods.

More recently, with the growing attention and expenditures for pollution control and other environmental and health considerations, agglomeration processes have been applied to fine, dusty waste materials for the purpose of recycling and for disposal as plant waste or landfill.

Since baghouse dust from a steel furnace or foundry cupola is extremely microfine, its haulage and dumping presents major problems. Even after this dust is collected in high-efficiency precipitators and baghouses, the storage, metering, truck or conveyor haulage and dumping of the fines could create a dust problem.

What Ferro-Tech is doing to solve these problems is to provide a dust-free, integrated pelletizing facility at or near the dust collector point. It is sized to provide sufficient storage, metering and pelletizing capacity to handle a daily dust-load in a few hours. It is also dust-free in operation through

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For a time like this...

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It's dusk. Visibility is at its worst. And there's not much room between cars. Suddenly asbestos becomes an important thing in our world for two reasons. It's the basis for safety in a car's brakes and when it's added to asphalt it provides a more durable, longer-lasting paving and a chance for a better stopping surface.

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the use of specially-hooded and collector-vented pelletizers. Water usually is the only additive to the dust, which forms it into granular pellets for transporting and dumping, like gravel, but without a cloud of dust.

ASBESTOS DUST

In Ferro-Tech's research laboratory in Michigan, at least ten different asbestos samples from various sources have been tested and in every instance the fine dust, usually a raw asbestos milling dust or a brake lining or insulating waste, could be pelletized on a Ferro-Tech "Demo-Disc." This is the smallest of a full line of pelletizers from 16" to 23' in diameter. Also used have been auger extruders for asbestos which proved to be too sticky and coarse to be disc-pelletized.

A typical pellet for dustless disposal might be in the ¼" x ⅜" size range, could contain from 15% to 40% of moisture, and might have a bulk density of from 40 to 60 pounds per cubic foot, as compared with the fine dust at 15 to 20 pounds per cubic foot. Moist pellets have crushing strengths from 3 to 6 pounds, increasing to from 5 to 10 pounds when dry. The result is a firm, granular pellet for disposal which will not revert to dust. Operating cost of a pelletizing system is low since the additive is normally plain water.

Should a more durable pellet be required for a lengthy storage life or for recycling, an additive such as cement, lignin, bentonite or silicate will produce a pellet crushing resistance of up to 50 pounds.

Fluffy and moist brake lining waste can be extruded into "rod-shaped" pellets of ¼" in diameter and 2" in length, by using a Bonnot-type auger extruder.

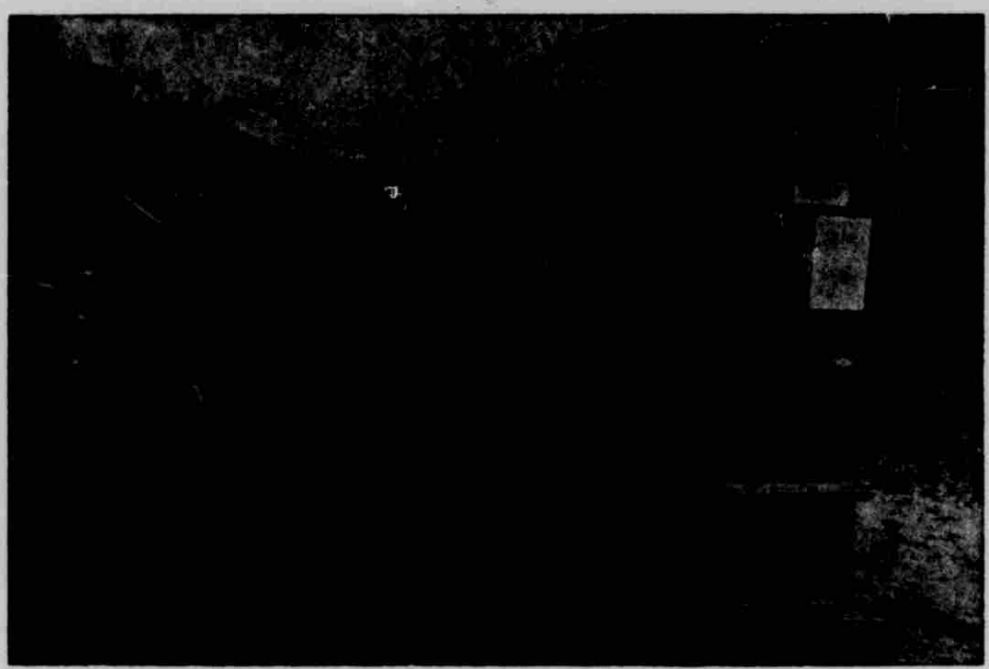
According to the company, with a full line of agglomerators available, almost any dust from asbestos processing can be converted into "pieces" using a Ferro-Tech system. Several small to medium sized pelletizers currently are on rental for in-plant evaluation at the source of the dust.

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FOR & ABOUT—ASBESTOS PRODUCTS

TIME & MONEY SAVER

Permanent Protective Coatings Ltd., Toronto, pioneered and developed a unique system of precoating asbestos-cement panels with a variety of bonded-on permanent, weather-resistant finishes ranging from durable thermoplastic acrylics and stucco through a variety of stone facings. The a-c panels that form the basis of the product are supplied by Atlas Asbestos Company and by Canadian Johns-Manville Co. Ltd. The asbestos fiber content comes from Bell Asbestos Mines Ltd. and C.J-M's Jeffrey Mine. In business since 1963, PPC has been supplying factory-finished panels for exterior and interior use in high-rise office buildings, warehouses, shopping centers, airport terminals, power stations and apartment buildings. The panels are popular due to their saving of time, trouble, weight and money. One square foot of prefinished a-c panel, complete with bonded-on permanent coating, is 3/8" thick and tips the scales at a mere seven pounds. The panels are proving so successful that PPC now is in the process of developing a new product—a unitized, insulated exterior/interior asbestos-cement wall section, complete with window cut-outs. [Asbestos Producer]

NEW FIRE SAFETY THEORY

According to R. D. Gillon of TAC Construction Materials Ltd., requirements for the fire protection of steel columns and beams intended to delay the collapse of burning buildings long enough to allow occupants to escape may be out-of-date. In some cases they call for more protection than is required. More seriously, many steel sections whose protection complies with the British Building Regulations of 1972 may at present be under-protected. In addressing the Turner & Newall Research Conference last month, Mr. Gillon explained a new formula that enables an architect to work out the thickness of protection needed taking into account the particular cross section of the steel member. The cross section is expressed as the ratio of the exposed surface area to its mass. The work reported was confined to profile spraying of insulation onto columns, but is equally applicable to spraying onto beams and to encasement of steel sections by insulation board. The Regulations require, for an encased steel stanchion 10" x 10"

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weighing 112 pounds per foot run, 0.75" of sprayed insulation to give two hours of protection. The T&N formula would require only 0.22", representing a contract price saving of about 35%. . . . Another paper, by R. Sykes and R. Huggett of TBA Industrial Products Ltd., described development work on fire protective clothing. A new wet dispersion process for the production of asbestos yarn makes it possible to produce knitted asbestos fabrics which introduce a new dimension for asbestos textiles in terms of flexibility and ease of handling. . . . Delegates also discussed flame retardant systems for plastics, marine fire protection, and fire resistance in the electrical industry.

PORTER "KEYS TO QUALITY"

A display showing the steps taken in the process of manufacturing finished asbestos products from crude fibers has traveled extensively throughout the United States in an effort to better acquaint distributors and customers with the basic products of the asbestos textile line of H. K. Porter Company, Inc. The theme of the exhibit is "Consistent Dependability and Uniformity . . . are the Keys to Quality Asbestos Textiles." A recent showing of the display was at the Charlotte Works where the asbestos sales group presented a program to the three shifts of plant employees who manufacture Porter asbestos textiles. Following its entry in the 1973 Western Pennsylvania Safety Engineering Conference and Exhibit, the display again is on tour in New York, New Jersey and Massachusetts.

TARIFF PROBE

The Tariff Board, Canberra, Australia, is inquiring if a range of building materials not made in Australia should be admitted as imports at concessional rates of duty. The items included are asbestos sheets, plastering materials, wall paneling, ceramic roofing tiles, glass bricks and some aluminum products.

TOUGHER ASBESTOS?

A factory in the Urals, USSR, is using a new process to make materials from local asbestos that are said to retain their strength and properties at temperatures to 930°F. The previous maximum fire-resistance temperature for such materials was 750°F. [Soviet Weekly]

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ACQUISITIONS & CONTRACTS

CERTAIN-TEED MOVES

Certain-teed Products Corporation acquired 49% of Productos Mexalit S.A. for $5,250,000 in cash. Directly and through two Mexican subsidiaries, Productos Mexalit is the second largest producer in Mexico of asbestos-cement pipe and sheeting. The company also manufactures plastic pipe. . . . Certain-teed also announced the acquisition of DuraWood Corporation, Chico, California, manufacturer and seller of prefinished extruded polyvinyl chloride moulding products.

T&N VENTURE IN SINGAPORE

Turner and Newall Ltd., through its subsidiary, Engineering Components Ltd., has taken a 33 ½% interest in a new company in Singapore—Tecko Manufacturing Pte Ltd. Its partners will be Repco Ltd. of Australia and Hwee Lai Holdings Pte Ltd. of Singapore. Tecko will manufacture the range of gaskets, diaphragms and filters for motor vehicles and other equipment previously made and distributed by Hwee Lai throughout Singapore, Malaysia and Indonesia.

SUPRADUR BUYS TYCO DIVISION

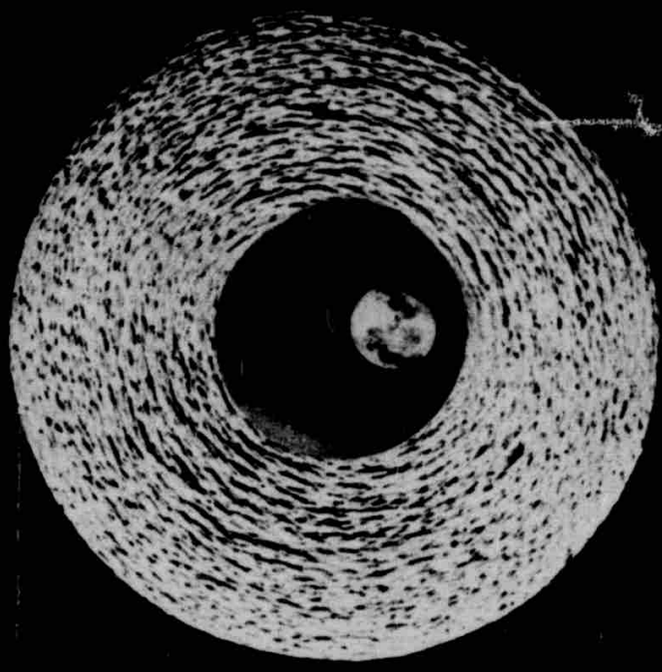
Supradur Manufacturing Corporation and Tyco Laboratories, Inc., completed an agreement for the purchase by Supradur of Tyco's Precision Fabricators Division. With annual sales of $2-million, the newly-acquired Supradur subsidiary is a custom contract manufacturer of precision sheet metal parts for major corporations in high technology industries located throughout the United States. It will continue to operate under its present management.

CAPE/NIPPON AGREEMENT

A £1-million contract recently was signed by Nippon Asbestos Co. Ltd., of Tokyo, and Cape Asbestos Fibres Ltd. for the supply of Amosite asbestos fiber from the South African mines of the Cape Group. Nippon is a licensee for the production of several Cape products developed in the United Kingdom including Asbestolux calcium-silicate ceiling and wall panels and Caposite insulation materials.

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C-E BAUER LIQUID CYCLONE & SCREENS

An all-ceramic Centri-Cleaner® Liquid Cyclone, designed for high-pressure or highly-abrasive applications, was introduced by The Bauer Bros. Co., Springfield, Ohio, and Brantford, Ontario, a subsidiary of Combustion Engineering, Inc. Hydrostatically tested to over 300 psi, the ceramic construction of the C-E Bauer 600C contains 97% alumina, is basically inert to chemicals and in many applications will outwear nylon, urethane and stainless steel liquid cyclones. . . . Hydrasieve® Screens for removing solids from wastewater and pollution control systems are described in Bulletin G-140. Featured are descriptions and flow diagrams of many municipal and industrial systems.

METAL HOSE FROM FEDERAL

Catalog 721 is offered by The Federal Metal Hose Corporation, Painesville, Ohio, to describe its range of flexible metal interlocked hose for dry bulk materials handling, dust collection, fume control and air handling. The literature gives prices, end fitting and engineering details, etc.

DYNATECH TESTER

Dynatech, Cambridge, Massachusetts, announced a digital thermal conductivity tester for measuring the heat transmission properties of solid materials such as plastics, rubber, gasket materials and papers. Designated as Model TCHM-G, the unit measures according to the heat-flow meter method.

GEOSCIENCE TEST SERVICES

Many difficult-to-obtain thermal testing services are listed in a brochure issued by the Laboratory Testing Division of Geoscience Ltd., Solana Beach, California. Among the various items that can be tested are building materials, fabrics and composites. Tests are made at temperatures from cryogenic to over 2000°F within a wide range of pressures.

YOUNG FABRIC FILTERS

The Young Industries, Inc., Muncy, Pennsylvania, handles a line of fabric filters (bag houses) covering the full range of types and sizes suitable for air pollution control and product recovery. The filters are said to offer a recovery efficiency of 99.9%. Ask for Bulletin 230-201 on Young's Uni-Cage® Filter-Collectors.

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World Wide CONSULTING SERVICES

Working on asbestos projects since 1946, SNC and its associate GECO have grown up with the industry, becoming one of the few consulting organizations with extensive experience in this specialized field.

PROJECTS INCLUDE:

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

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

SURVEYER, NENNIGER & CHENEVERT INC.
1550 DE MAISONNEUVE BLVD., W., MONTREAL 107, CANADA

GENERAL ENGINEERING (1970) COMPANY LTD.
100 ADELAIDE STREET WEST, TORONTO, CANADA

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ASSOCIATION ACTIVITIES

ASTM CALL FOR PAPERS

A call for papers has been issued for the ASTM Symposium on Computerized Laboratory Systems to be held March 5, 1974, in Cleveland, Ohio, during the 25th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy. Sponsored by Committee E-31 on Computerized Laboratory Systems, American Society for Testing and Materials, the objectives of the Symposium are to promote a better understanding of how to define, implement, evaluate and document computerized laboratory systems and to provide a general reference based on current and future computerized laboratory system concepts. Its scope includes system definition and specification, functional design, implementation design, evaluation and documentation topics. Abstracts of 300-500 words and an ASTM "presentation offer form" should be submitted by October 1, 1973.

ASBESTOS HELPS THE ECONOMY

The importance of the asbestos industry to the Canadian economy was discussed by Lionel C. Piuze, Vice President and General Manager of Lake Asbestos of Quebec Ltd., at a recent meeting of the Thetford Mines Branch of The Canadian Institute of Mining and Metallurgy. Mr. Piuze discussed environmental control methods now in use and stated that Canada expects to maintain its position as the world's number one asbestos producer in a market that is growing about 4% per annum. He emphasized the difficulties the industry is still having in Canada with respect to acceptance of products containing asbestos. Based on medical research, he noted, exposure to the minute amounts of asbestos that may be present in community air presents no hazard to the general public and actual dust control at the plants provides safe working conditions.

NEW OFFICERS FOR CRCA

Simon Lono, President of Simon Lono Ltd., St. John's, Newfoundland, was elected President of the Canadian Roofing Contractors Association, succeeding B. L. Quincey. Other newly-elected officers include: R. Jackson, First Vice President; K. Sollows, Second Vice President; A. Clark, Secretary; and D. McFarlane, Treasurer. In addition, there are twelve Directors plus two Associate Directors. Jacques Chevalier, of Ottawa, is General Manager.

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THRU THE ENVIRONMENTAL MAZE

EPA PROPOSALS

On April 27th, the U.S. Environmental Protection Agency proposed guidelines for environmentally-sound disposal practices for solid wastes. . . . On May 2nd, EPA issued the first proposed regulation under the Noise Control Act of 1972. The proposal is not expected to have significant impact until after the national Noise Source Emission Standards are promulgated in October 1974. . . . On May 2nd, EPA proposed rules relating to start-up, shut-down and malfunction of new stationary sources of air pollution.

OHIO & OREGON TIGHTEN CONTROLS

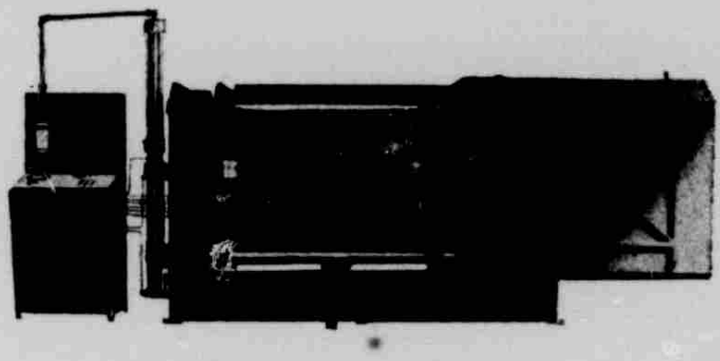
Cincinnati, Ohio, City Council approved a law prohibiting the use of asbestos sprays in any building construction and regulating the demolition of buildings containing asbestos insulation. . . . The Health Division of the Oregon State Department of Human Resources and the Accident Prevention Division of the Workmen's Compensation Board distributed a letter to all Oregon employers whose firms or workers are involved with the use of asbestos. In part, the letter states that recent and pending changes in regulations pertaining to asbestos have created a need for the re-evaluation and implementation of new work practices. New data show that present Oregon regulations do not afford asbestos workers adequate protection. The State proposes to implement a program as effective as the present Federal Standard.

OSHA HAPPENINGS

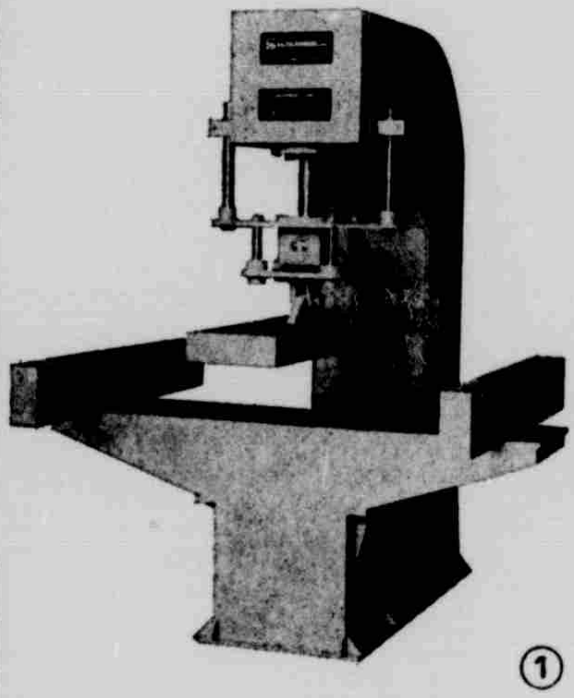
The Occupational Safety and Health Administration should be viewed by employers "not as a negative force that threatens their efforts and livelihood, but as a positive force that will eventually reduce their expenses," according to John H. Stender, Assistant Secretary of Labor for Occupational Safety and Health. . . . The Labor Department's Standards Advisory Committee on Noise held a public meeting in May to review proposed job safety and health standards on employee exposure to occupational noise hazards. Working groups are now considering provisions of a Standard on Noise Exposure to be proposed to OSHA. . . . A subcommittee of the Labor Department's National Advisory Committee on Occupational Safety and Health met May 15th to review procedures for job safety and health inspections. Under consideration are possible revisions to OSHA's Compliance Operations Manual.

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① Bending and crushing test press for sheet and pipes



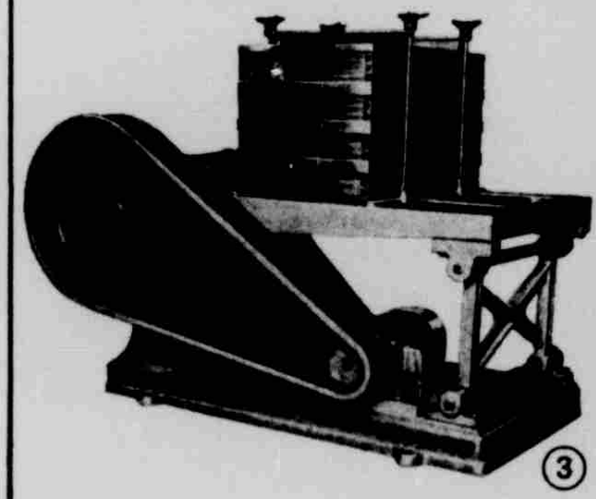
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

Asbestos-cement testing machines designed and manufactured by:

SALVANESCHI S.p.A.

VIA ROMA, 27-27043 BRONI (PV) ITALY - TELEF. 51.024

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MARKET CONDITIONS

GENERAL BUSINESS

The general business picture is confusing to say the least. While sales and profits in many industries are establishing new all-time highs, the stock market continues its downward drift. On foreign exchange markets the price of gold reached a record high of well over $100 per ounce and the dollar reflected this by dropping sharply.

Administration spokesmen are predicting a moderation of inflation, particularly in the area of food prices but, in the eyes of many business and financial leaders, predictions from this source have been so far off the mark for such an extended period that they are now heavily discounted.

There seems no doubt that the Watergate mess has created a truly frustrating situation in Washington officialdom. The charges, countercharges and general confusion seem to have brought to a halt any semblance of the orderly processes of government. Communications between Congress and the President show no signs of improvement. Where, during the Johnson administration, a pronounced credibility "gap" existed, in the present situation there seems to be an almost complete lack of any credibility whatever on even the simplest matters. It is difficult to see how the President can concentrate his energies on great affairs of state on the international level when so many important domestic matters are crying for attention.

Hopefully, in the near future, the Watergate linen will be washed clean and the reorganization of the Executive branch, already started, will be completed. At that point, we can hope for positive action on such pressing matters as control of inflation, a solution, if only temporary, to the energy crisis, implementation of programs to improve the ecology and increased stress on the solution of problems involving human rights. Failure to come to grips with these problems can lead to all sorts of trouble at home regardless of the international political situation.

A major economic and marketing study of the U.S. commercial furnishings market, including flooring, wall and ceiling materials, is being undertaken by the New York marketing research firm of Smith, Stanley & Company. The analysis will include 1980 market projections by product and end use.

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CONSTRUCTION NEWS

APRIL 1973—As a result of the steep decline in home-building, the Dodge Index of total construction contract value slid to 177 from its March peak of 193. Contracts for future construction work of all types totaled $8,814,128,000, 7% above last April. After adjustment for normal seasonal variation, the data showed a distinct break from the exceptionally high rate of contracting of the prior few months.

Nonresidential building contracts were valued at $2,633,-834,000, a 20% improvement over the depressed condition of this market a year ago.

Residential contract value, up a mere 14% to $4,511,986,000, confirmed the arrival of the widely-predicted end to the housing boom of 1971-72. With rental vacancies rising, savings deposits ebbing and subsidies frozen, the housing market has nowhere to go but down.

Nonbuilding construction contracting remained weak. The latest month's total of $1,688,308,000 of new work sagged 19% below last April's value. Three of the first four months of 1973 showed declines in nonbuilding construction as a result of constraints from two directions: the impounding of Federal funds for public works and the environmental restrictions on power plant construction. It is possible the sewer and water facilities category will soon be advancing sharply as a result of a Federal court order to make available several billion dollars of water pollution control appropriations held by the Environmental Protection Agency.

Cumulative construction contract value for the first four months of 1973 totaled $31,062,582,000: Nonresidential, $9,954,020,000, up 26%; Residential, $15,656,082,000, up 22%; and Nonbuilding, $5,452,480,000, down 13%. The four-month total was 15% ahead of the same period in 1972. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

MOTOR VEHICLE FACTORY SALES

MARCH 1973 motor vehicle factory sales from plants in the *United States* totaled 1,219,970 (passenger cars—941,232; trucks and buses, 278,738). The cumulative total for the First Three Months of 1973 was 3,492,491 compared with 2,882,961 for the same period in 1972. . . . Motor vehicle factory sales from plants in *Canada* totaled 435,644 in January-March 1973 against 376,311 for the like 1972 period. [Motor Vehicle Manufacturers Association of the U.S., Inc.]

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PRODUCTION—IMPORTS—EXPORTS

CANADA

Producers' shipments of asbestos (including tonnage for own use) in *March 1973* totaled 153,240 short tons: 127,579 tons from plants in Quebec and 25,661 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for March 1972 was 138,647 tons. . . . The *cumulative total* of shipments for the *First Three Months of 1973* was 431,256 tons: 346,921 tons from Quebec plants and 84,335 tons from plants in the other four Provinces. The total for the same period in 1972 was 357,768 tons. [Statistics Canada, Ottawa]

Production of vinyl-asbestos floor tile for the period *January-March 1973* totaled 46,776,936 square feet (21,728 short tons) compared with *shipments* of 46,235,084 square feet (21,452 tons). Comparable 1972 figures are 47,769,168 square feet (21,933 tons) produced and 42,394,992 square feet (19,641 tons) shipped. [Statistics Canada]

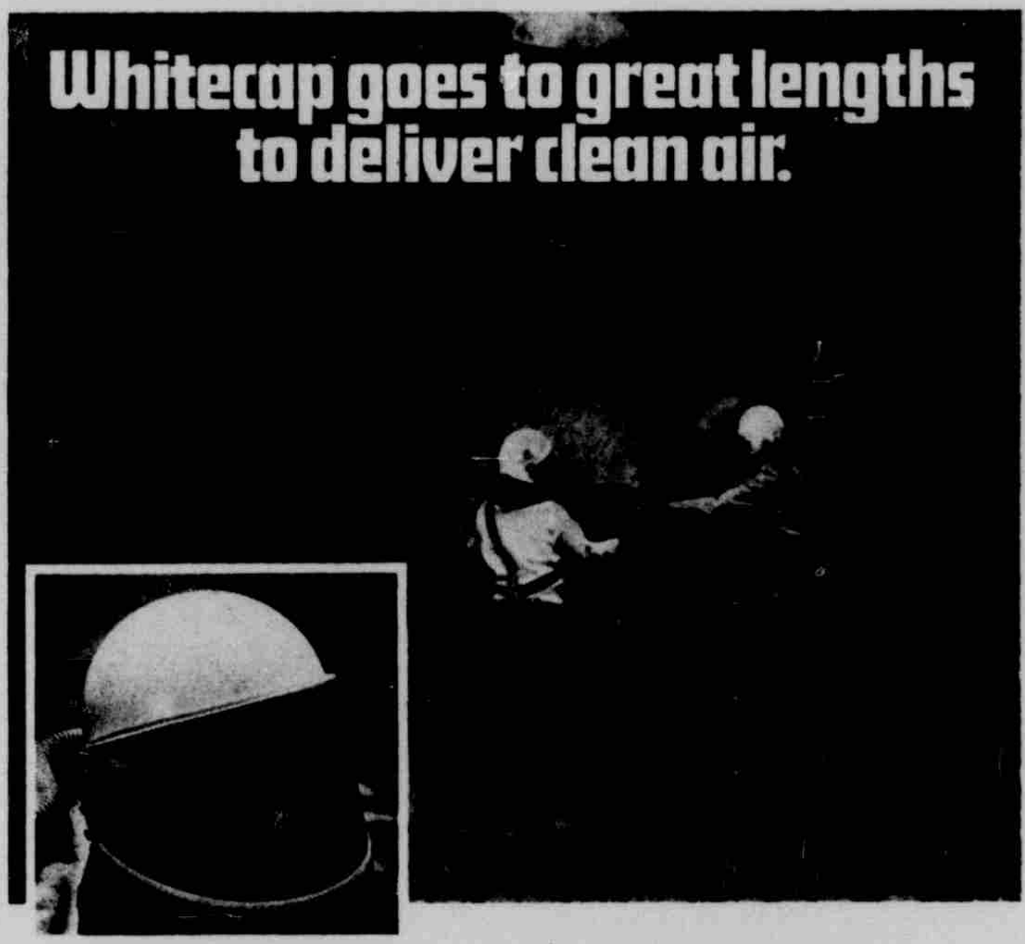
U.S. RESOURCE PROBLEMS

Known deposits of mineral raw materials in the United States are seriously depleted and future supplies must come from subeconomic deposits or from potential resources yet to be discovered, according to a report entitled "United States Mineral Resources," prepared by the U.S. Geological Survey, Department of the Interior. The report stresses that for only a handful of mineral commodities is the Nation in excellent shape for the long term. For a few others, including asbestos, the country has only scant reserves. The report points out that a serious aspect of the mineral supply problem is the extent to which many commodity by-products are literally being wasted because there is no apparent economic incentive for recovering them during ore processing. . . . Dr. V. E. McKelvey, Director of USGS, commented there are some "sobering" implications to be drawn from the assessments contained in the report. "The fact is that the future drain on our mineral supplies will become enormous. Even with a leveling off in growth in per capita consumption, it will be necessary to build a 'second America' within the next three decades in the sense of having to duplicate or replace the physical plant built during all our history. Most of the raw materials needed for constructing such an undertaking will be drawn in large measure from resources that are now only subeconomic, or not even discovered. . . ." [United States Mineral Resources, USGS Professional Paper 820; clothbound, 722 pages, $9.15 per copy domestic postpaid; may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402]

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Occupational Health & Safety Products

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IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		JANUARY 1973	
Amosite, South Africa	s.tons	248	$ 43,090
Crocidolite (Blue), South Africa	s.tons	1,043	215,424
Chrysotile, Crudes, Canada	s.tons	20	1,110
Rhodesia	s.tons	25	11,000
South Africa	s.tons	100	21,917
Chrysotile, Spinning Fibers, Canada	s.tons	887	443,283
Chrysotile, Other, Canada	s.tons	66,141	8,302,076
Other Crudes & Fibers, Canada	s.tons	435	25,891
Finland	s.tons	296	18,768
		69,195	$ 9,082,559
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	514,750	$ 476,842
A-C pipes, tubes & fittings	Lb	729,101	48,079
Other a-c articles	Lb	2,225,350	411,577
Other asbestos articles		..	222,320
			$ 1,158,818

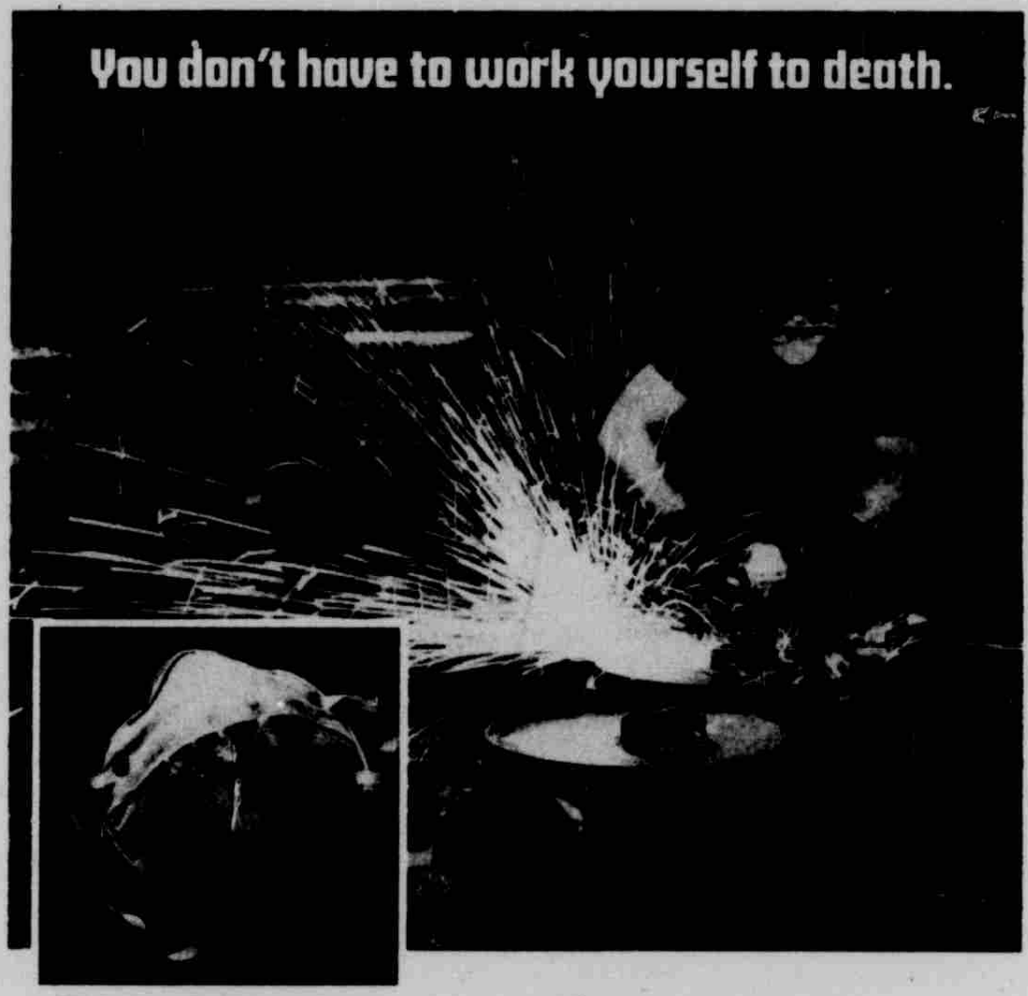
EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		JANUARY 1973	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,374	$ 239,589
Waste and refuse	s.tons	2,220	255,070
		3,594	$ 494,659
Manufactured Asbestos Goods:			
A-C shingles & clapboard	Lb	1,141,994	$ 128,877
Other a-c fiber-cement articles	Lb	717,534	140,861
Gaskets	Lb	96,553	200,198
Packing	Lb	370,633	546,475
Heat or sound insulation		..	88,816
Textiles & yarns	Lb	2,276,781	628,540
Protective clothing		..	131,462
Mfrs. other than friction materials		..	551,851
Cl. facings & linings for auto. use	No	69,008	70,191
Other clutch facings & linings	No	144,679	30,185
Brake linings for automotive use	Lb	763,048	485,887
Other brake linings	Lb	355,203	255,577
			$ 3,258,920

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*Certificate of Approval TC-21C-132 has been granted by the U. S. Bureau of Mines and National Institute for Occupational Safety and Health to the 3M No. 8710 single use air purifying respirator for respiratory protection against pneumoconiosis and fibrosis producing dusts, including but not limited to aluminum, asbestos, coal, flour, iron ore or free silica.

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EXPORTS FROM CANADA

Figures from Statistics Canada

JANUARY 1973

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	1,639	21,279	17,807
Eastern Europe	..	93	3,047	398
Middle East	..	..	2,639	298
Africa	..	..	1,400	307
Asia	..	519	7,568	9,858
Oceania	..	..	7,635	6,344
So. & Cen. America & Antilles	..	68	9,859	3,777
United States	..	1,214	20,763	45,734
	..	3,533	74,190	84,523

The total amount of unmanufactured asbestos exported in *January 1973* was 162,246 short tons, valued at $23,410,000.

Manufactured Asbestos Goods:

Woven or felted cloth, dryer felts & sheets (previously included with "Other Basic Products")	$ 154,000
Brake linings & facings	81,000
Asbestos-cement building materials	85,000
Other basic asbestos products	157,000
	$ 477,000

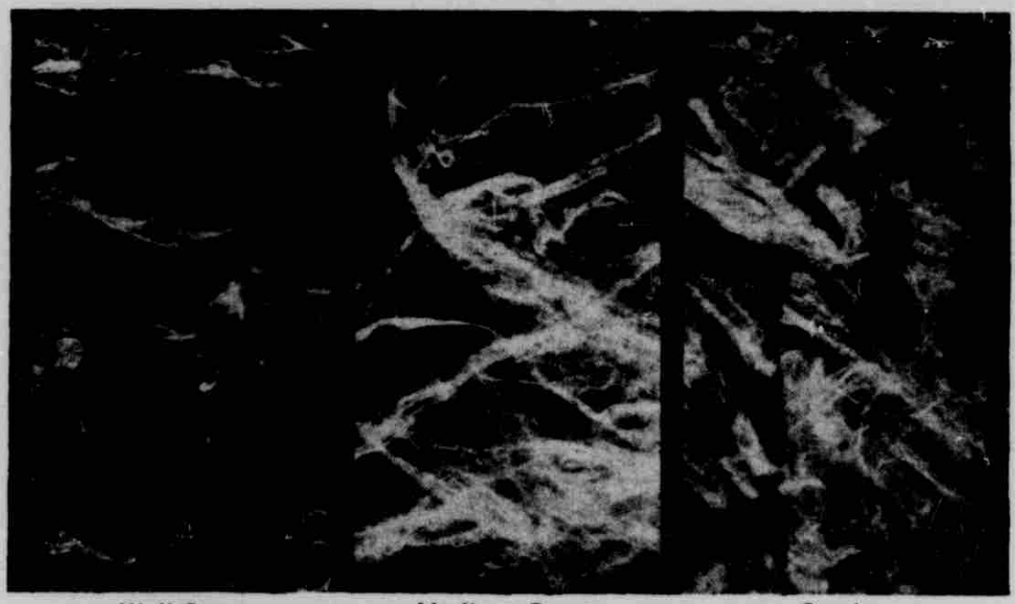
EXCERPTS FROM MINERALS YEARBOOK 1971

FINLAND—Slackened demand in export markets coupled with strikes in the metal and construction industries had depressing effects on the Finnish mineral industry. Preliminary production figures for asbestos in 1971 were 10,360 metric tons. In 1970, exports of asbestos reached 9,335 tons and imports totaled 7,744 tons.

KUWAIT & SAUDI ARABIA—An arrangement exists between the two countries calling for the equal sharing of revenue from natural resources in the entire Kuwait-Saudi Arabia Neutral Zone. Petroleum is the predominant industry in the economy of both countries. In 1970, Kuwait exported 141 metric tons of asbestos and imported 2,453 tons and Saudi Arabia imported 823 tons.

YUGOSLAVIA—Mineral producers continued to direct their efforts toward better utilization of existing facilities rather than construction of new plants. Preliminary 1971 production figures include 15,432 metric tons of asbestos. Exports of asbestos in 1970 totaled 4,741 tons: 3,795 tons to the U.S., 445 tons to the Netherlands and 250 tons to West Germany. Asbestos imports in 1970 reached 28,552 tons: 17,849 tons from the USSR, 6,145 tons from Botswana and 3,394 tons from Canada.

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LAKE ASBESTOS OF QUEBEC, LTD.

a subsidiary of American Smelting and Refining Company

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MEANDERINGS THRU QUEBEC

Development projects currently underway or approaching completion at asbestos mines in the Province of Quebec carry a price tag that is in the hundreds of millions of dollars. . . . *Carey-Canadian Mines* installed a system at its mill to enable the floors to be cleaned by vacuum suction, thereby removing the dust instead of merely moving it from place to place. . . . A new vertical mill at *National Asbestos Mines* improves the quality of the fiber by fluffing it and, in the process, destroying the inherent crudiness of the fiber. . . . Due to the growing use of containers, fiber must be stored on pallets and warehouses must have ample room for lift trucks to maneuver. The needed space was provided at *Bell Asbestos Mines* via a 48,000-square-foot storage shed, completed last year, located on the mine's waste dump. . . . *Asbestos Corporation* built a $600,000 crushing station at the 1400-foot level of the King-Beaver Shaft No. 3. It took nine hours to get the 27,500-pound, 36-by-60-inch crusher down the shaft. . . . Increased and more efficient ore production at *Lake Asbestos of Quebec* is the reason behind LAQ's recent purchase of five new 85-ton trucks and an 11-cubic-yard power shovel. The move to the larger-capacity, 850-horsepower vehicles also entails the construction of a brand new garage. . . . The tops in spending is the new 12-story crusher-dryer-concentrator complex at the Jeffrey Mine of *Canadian Johns-Manville.* Scheduled to enter production later this year, the building uses 150,000 square feet of a-c materials—enough to cover 3½ acres of land. [Asbestos Producer]

QUALITY OREBODY REPORTED

Nicolet Industries, Inc., and its Colombian partner, *Asbestos Colombianas, S.A.*, have detailed the Las Brisas deposit in the Department of Antioquia, Colombia, and the property is reported to have been proven to contain a high-quality asbestos orebody. A bulk sample recently was procured from 590 feet of adits in the R Zone and recovery was slightly above 10%. The fiber product recovered showed 35-40% of Group 4, up to 40% of Group 5 and the remainder in Group 6. [Northern Miner]

PILOT PLANT IN OPERATION

Construction of a pilot plant on the property of *Abitibi Asbestos Mining Ltd.*, near Amos, Quebec, is completed and production of fiber for testing is underway.

THE COVER

An electron micrograph, magnification 20,000X, of Amphibole asbestos, recently discovered at Alamore, Texas (see ASBESTOS, May 1973, page 30). It is considered a "fine and unusual find" and if present in sufficient quantities, the fiber should find a ready market in the U.S. The photograph was taken by Charles Huggins, Bureau of Mines Research Center, College Park, Maryland.

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NOTES FROM ANNUAL REPORTS, 1972

THE CAPE ASBESTOS CO. LTD.

A substantial increase in earnings for the year ended December 31, 1972, was reported by The Cape Asbestos Co. Ltd., arising from some increase in turnover combined with continued improvements in efficiency in most United Kingdom factories. Group turnover was £55,603,000 against £50,163,000 in 1971 and trading profit rose to £4,750,000 from £3,725,000. After taxes and other provisions, £2,576,000 was left for distribution, compared with £1,878,000 the previous year. Direct exports from the United Kingdom were valued at £5,575,000 (£5,586,000 in 1971). The principal contributor to the increased earnings was the Building and Insulation Products Division. The Mining Division exceeded 1971 earnings at £1,986,000 compared with £1,703,000.

Building and Insulation Products Division—Cape Universal Building Products Ltd. experienced a substantial advance in sales and profits. Agricultural building demand for asbestos cement was strong but the long-awaited upturn in industrial building has yet to be felt. The market for Asbestolux fire-resistant board products showed little growth largely due to a weakness in the industrial building market. . . . Cape Insulation Ltd. increased the sale of insulation material although profits were below those for 1971. The Contracting Division of CIL had a successful year and had reached a size where it was felt it should trade on its own account. Consequently a new company, Cape Contracts Ltd., was formed on January 1, 1973. . . . Marinite Ltd., Glasgow, restored profit margin to an acceptable level despite keen competition. . . . Cape Asbestos Insulations (Pty) Ltd., South Africa, experienced a greater demand for panel heaters and for friction materials, particularly disc pads. . . . Cape Insulation (Ireland) Ltd. had an excellent year both as a contractor and as a supplier of materials to the building industry. . . . Caposite Applications (Pty) Ltd., South Africa, was reorganized and the demand for its services is encouraging.

Automotive and Engineering Products Division—Small & Parkes Ltd. had a difficult year and profits were considerably reduced from those achieved in 1971, mainly due to weakness in the original equipment market. . . . Trist, Draper Ltd. showed reduced profits in 1972, partly because of highly-competitive market conditions. The manufacture of asbestos textiles is now concentrated at Small & Parkes and the Automatic Transmission Division was reorganized and moved to new premises. . . . Don International S.A., Belgium, expects to achieve a profitable share of the important Continental market for automotive and industrial friction materials. . . . Kismet Ltd. felt the benefits expected from the closure of the Sheffield factory and considerable progress was made in new product development. . . . Appareillage Technique et Industriele S.A., France, and A.T.I. s.a., Belgium, achieved improved results due to strong market conditions

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in Europe. . . . Transvaal Equipment Supplies Co. (Pty) Ltd. discontinued operations during the year and alternative arrangements have been made for distribution in South Africa of garage equipment products. . . . Cape Distribution Ltd. was formed to support Cape's entry into the distribution of automotive components.

Mining Division—Cape Asbestos South Africa (Pty) Ltd. improved profits from Amosite mining operations at Penge but the rate at which mining costs increased continues to cause concern. Mining at Penge continued to move southward into the "new area" and plans are being made for the sinking of a new shaft some two miles to the south of the Keep shaft. The Blue mines at Koegas and Pomfret had a satisfactory year and there are indications that ore reserves in the Koegas area may be greater than had been supposed. . . . Cape Asbestos Fibres Ltd. sold its total output of Amosite but had some difficulty in disposing of certain grades of Blue fiber. . . . North American Asbestos Corporation, Chicago, Illinois, remains active in seeking all prospects of increasing sales. A better showing of the U.S. economy assisted fiber sales but this was more than offset by moves away from using asbestos, based on environmental grounds.

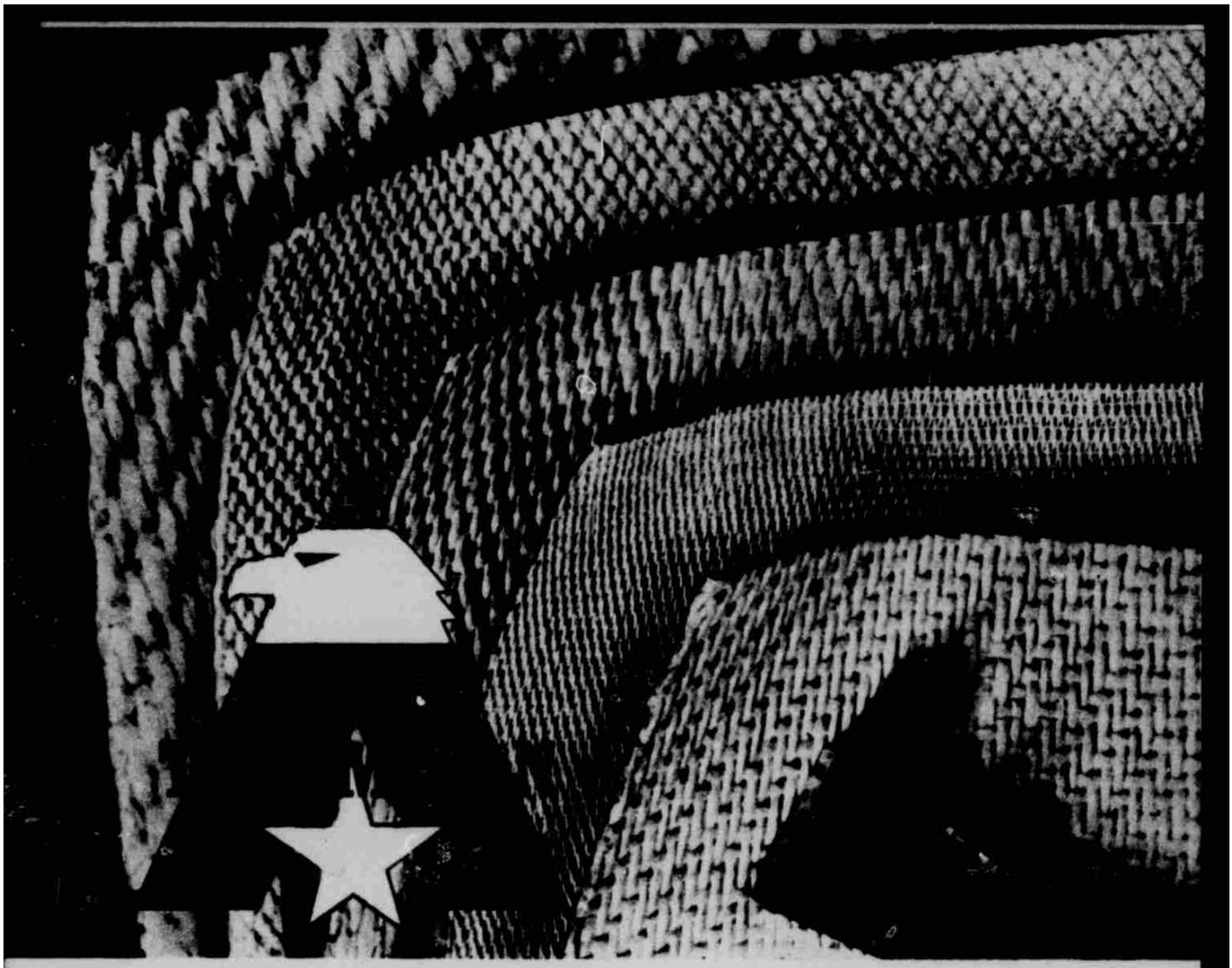
Associated Companies—Rane Brake Linings Ltd., India, made further progress in sales and profits and Don Agencies Ltd., New Zealand, increased turnover.

NATIONAL GYPSUM COMPANY

National Gypsum Company is an integrated and highly-diversified manufacturer of building materials. Structurally, the company is composed of seven divisions which operate in the distinctly-different fields of building products, ceramic tile, cement, mobile homes, glass fabrication, installation and distribution, and decorative vinyl wall-coverings. Internal expansion has been National Gypsum's primary avenue of progress and has been supplemented by acquisitions of other companies. . . . Net sales in 1972 totaled $519,016,000, 13% over 1971. Net income was $30,625,000, against $21,118,000 for the previous year. Earnings per share were up 48%. The improvement in earnings per share has continued for eight consecutive quarters. . . . Because of uneconomical operation, production was ceased at the asbestos-cement plant in St. Louis, Missouri, and at the acoustical tile plant in Alexandria, Indiana.

Gold Bond Building Products Division—The Gold Bond brand name identifies some 350 different products, marketed nationwide. Important products in the line include gypsum wallboard, sheathing, insulation board, asbestos-cement products, ceiling tile, acoustical materials, roof deck, glass fiber insulation and related fabricated metal components. The Division has 37 manufacturing plants and obtains mineral raw materials from its 13 quarries and mines. These resources also sustain a business in industrial products consisting of large-tonnage sales of gypsum rock, lime and limestone, asbestos fiber and wallboard paper to other manufacturing concerns.

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— a different concept in quality asbestos textiles

CLEANLINESS: *Thermolan* fabrics are smooth and clean. Dust and loose fibers are virtually eliminated. Absolutely no "hairy" or "fuzzy" yarns. Cleaner to handle and cut.

PURITY: The unique process used in making yarns for this fabric results in cloth with less than 2% organics in most styles, which exceeds AAA Grade (95%) requirements. **This material meets United States Coast Guard requirements of 46 CFR 164.009 "Incombustible Materials" paragraph 164.009-2(b) (5).**

TENSILE STRENGTH: Lower organic content means greater strength retention after subjection to heat. Also more resistance to chemical and biological reactions.

THERMOLAN is offered in a variety of gauges (.025"-.125") in Plain, Twill, Herringbone and other constructions used for safety clothing, welding blankets, turbine pads and marine insulation lagging cloth.

For samples and information call 215-275-4602 (TWX 510-660-0184) or write Box 228, Norristown, Pa. 19404.

A com quality asbes ducts

AMATEX CORPORATION

PLANTS LOCATED AT NORRISTOWN, PA. ■ MEREDITH, N.H. ■ AND AT SONORA, MEXICO

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ASBESTOS STOCK QUOTATIONS

Close—May 15, 1973

Abitibi Asbestos	*$1.65
Advocate Mines	*$1.10
Allied Mining	*$2.75
Asarco	19⅛
Armstrong Cork	24¾
Armst Cork (pfd 3.75)	56
Asbestos Corporation	*$17.625
Bendix	37⅝
Bendix (pfd 3)	58½
Carlisle	20
Cassiar Asbestos	*$10.00
Cerro Corporation	15¼
Certain-teed Products	18⅞
C-teed (pfd .90)	38⅜
Charter Consolidated	**228
Conwest	*$6.50
Flintkote	17¼
F-kote (pfd-A 4.50)	61
F-kote (pfd-B 2.25)	30⅞
GAF Corporation	12¾
GAF (pfd 1.20)	19½
Garlock	16⅝
Grace	23¾
Gulf & Western	23⅜
G&W (wt)	5¼
G&W (pfd 1.75)	78
G&W (pfd 3.50)	100⅛
G&W (pfd 3.87)	54½
G&W (pfd 5.75)	75¼
Illinois Central	19½
Ill Central (pfd A-6)	93
Ill Central (pfd 3.50)	45⅝
Jim Walter Corporation	23¼
Jim Walter (pfd 1.60)	29¼
Johns-Manville	21½
Kennecott Copper	25¼
Maremont	34¼
McAdam Mining	*$.385
National Gypsum	14⅞
Pathfinder	*$.45
Porter (pfd 5.50)	81½
Raybestos-Manhattan	26
Rio Algom Mines	*$25.00
Royal Industries	7¼
Supradur (O.T.C.)	5¼
Unarco	9½
Union Carbide	40⅝
Uniroyal	12⅝
Uniroyal (pfd 8)	102¼
United Asbestos	2¼
Woodsreef Mines	*$.75

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

TRADE/INVESTMENT OPPORTUNITIES

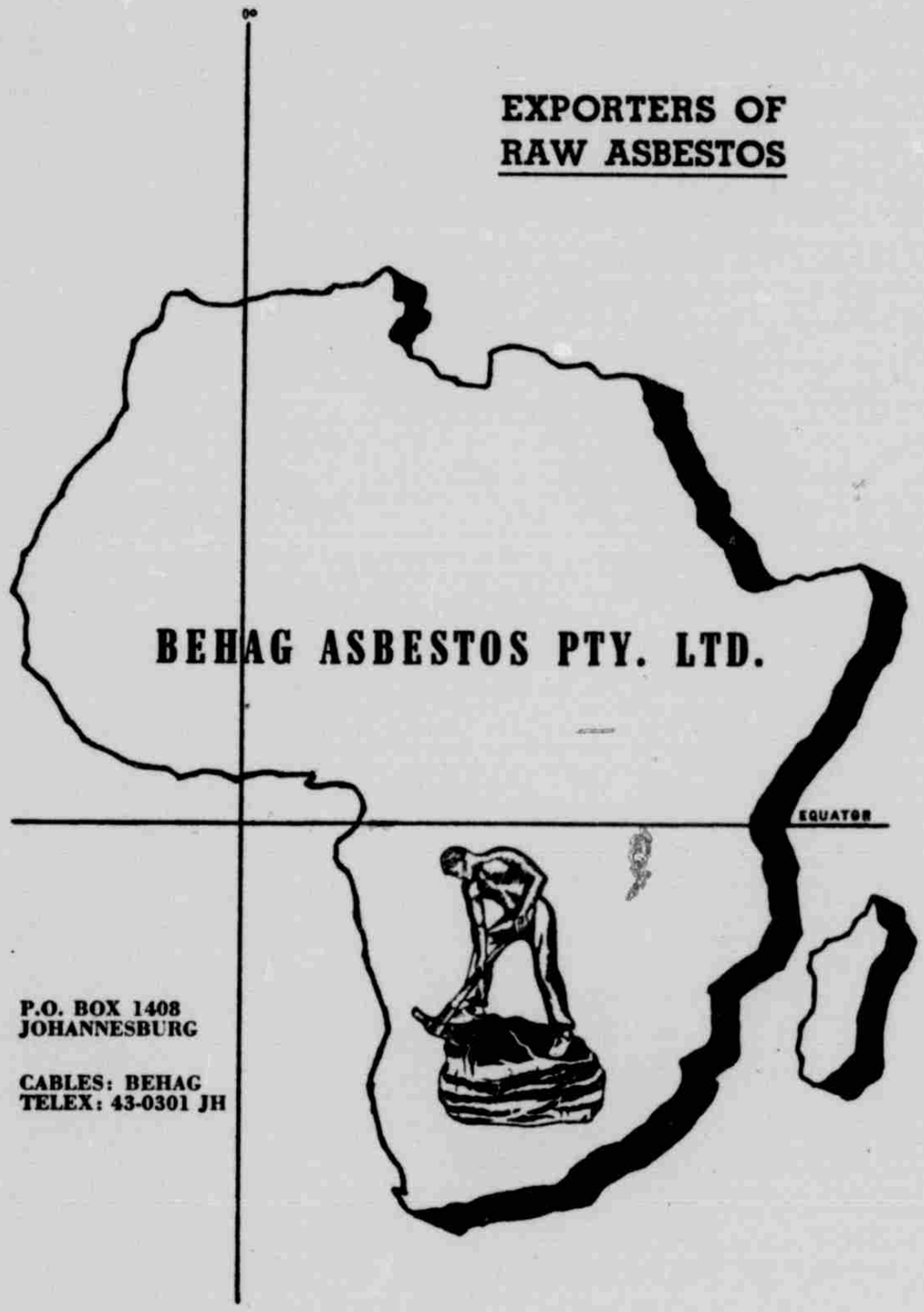
Czechoslovakia—country interested in broadening the scope of its licensing arrangements with Western firms; interested U.S. companies should write: Polytechna, Vaclavske Namesti 8, Prague 1.

Greece—importer-agent interested in handling vinyl-asbestos floor tile for local office and residential use; contact: A. N. Panayiotopoulos, 32 Venizelou Street, Thessaloniki.

Japan—construction firms seeking licenses or joint ventures for development of non-flammable building materials, including asbestos slate; further data available from: Office of International Finance and Investment, BIC-287, U.S. Department of Commerce, Washington, D.C. 20230.

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MEN ON THE MOVE

EVERITE LTD.

R. J. Lambson has been appointed General Manager of Everite effective July 1, 1973. He joined the firm in 1951 as Assistant Sales Manager and was promoted to Sales Manager in 1954. He became Business Manager in 1964 and Deputy General Manager and Marketing Manager in 1969. . . . Also promoted within the Everite Group of Companies are *E. B. Claasen* as Group Personnel Manager; *J. Graf* as Group Planning Manager; *T. L. Scholtz* as Manager, Accounting Services; *R. Schubert* as Production Manager, Kliprivier Factory; and *G. A. T. Franck* as Secretary, Santar Pipes (Pty) Ltd., succeeding *D. J. de Jager*, now Factory Cost Accountant at Kliprivier.

GAF CORPORATION

Ronald K. White was named as Manager of GAF's asbestos plant at Hyde Park, Vermont, succeeding *Louis Jordan, Jr.* Mr. White was Senior Mining Engineer at the plant from 1957 until last year, when he was promoted to Assistant Plant Manager. Mr. Jordan has been transferred to Charmian, Pennsylvania, where he will manage the GAF facility that manufactures asbestos roofing materials.

NATIONAL GYPSUM COMPANY

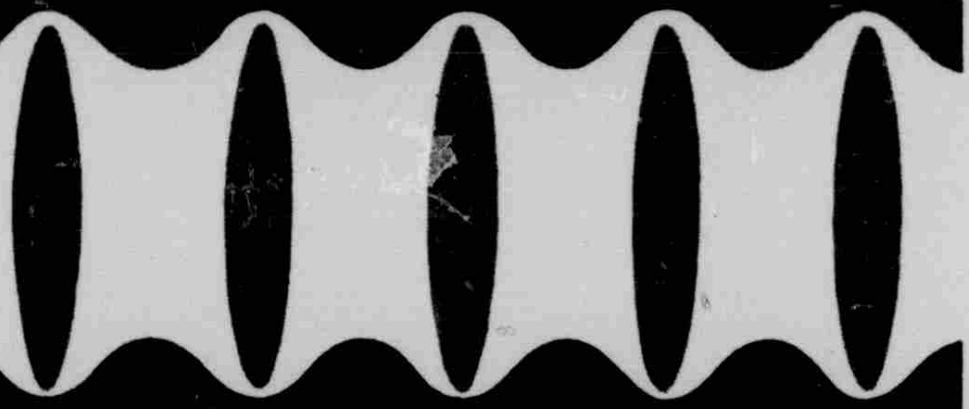
Thomas W. Ferguson was named President of American Olean Tile, succeeding *Robert J. Corless* who was elected a Corporate Group Vice President, responsible for the American Olean Tile and the Multicolor Divisions. . . . *Robert E. Scifres*, Corporate Group Vice President and a Director, responsible for the Huron and Allentown Cement Division, has earned the added responsibility for the Binswanger Glass Division. . . . *William B. Hoffman* is now Director of Manufacturing for nine of the 37 production facilities operated by the Gold Bond Building Products Division. *Deal Daymon* succeeds Mr. Hoffman as Corporate Director of Internal Management Consulting Services and *James E. Eason* becomes Director, Corporate Computer and Communications Systems.

TURNER & NEWALL GROUP

R. K. Day was appointed Assistant Managing Director of TAC Construction Materials Ltd. He will continue as General Manager of TAC's Building and Insulation Division. . . . *A. C. Mann* has retired from the Board of TBA Industrial Products Ltd. He had served the company for almost 39 years, including 10 years as a TBA Director.

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SCAPA
TEXTILES
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100% Synthetic needled felts
for Magnani Sheet Machines

This new development offers

MUCH INCREASED FELT LIFE

MUCH IMPROVED FELT STABILITY
ELIMINATING EDGE TRIMMING
AND WIDTH SPLITTING

MUCH IMPROVED PERMEABILITY



SCAPA TEXTILES LTD.,
Bolton Road, Blackburn, England
WAYCROSS GA USA JOLIETTE P.Q. CANADA

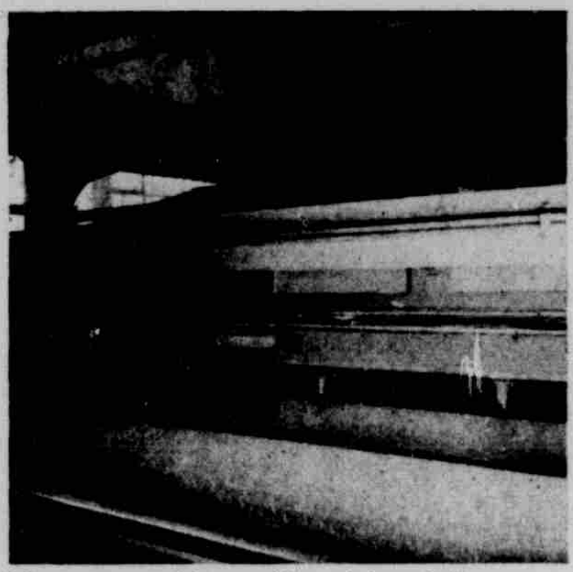
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BIRTHDAY GREETINGS to . . .

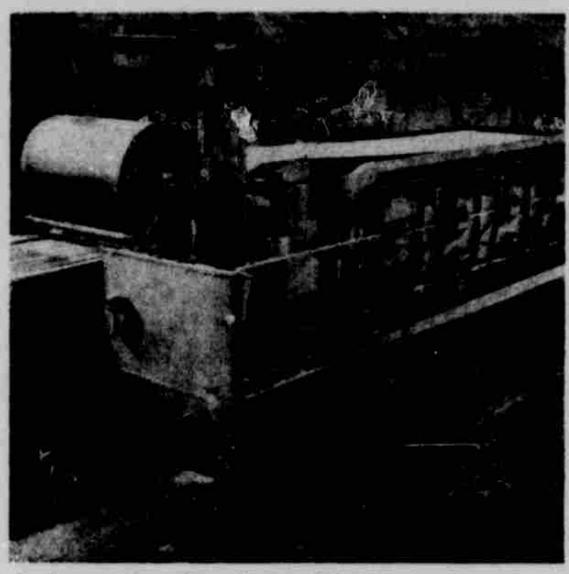
Donald H. Lyons, Vice President-Administrative Services, Johns-Manville Corporation, Denver, Colorado, July 5.
Frank T. Campagna, General Manager, Industrial Products Division, GAF Corporation, New York City, July 6.
A. W. S. Schumann, Chairman, Msauli Asbes Ltd., Johannesburg, Republic of South Africa, July 7.
Roy M. Billings, General Manager, Industrial Products Division, Johns-Manville Corporation, Denver, Colorado, July 8.
B. Kovacs, Production Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, July 9.
Samuel J. Graci, Jr., Asbestos Sales Representative, Thermoid Division, H. K. Porter Co., Inc., Mechanicsburg, Pa., July 10.
Donald L. Andrew, Secretary, Pacor Inc., Philadelphia, Pennsylvania, July 11.
W. L. Giachino, Mine Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, July 13.
John F. Sullivan, Jr., Chairman, A & M Insulation Company, Chicago, Illinois, July 13.
Carlo M. Weber, Field Product Manager, A-C Specialties, Celotex Division, Jim Walter Corporation, Cincinnati, Ohio, July 14.
W. Ray Blankenship, Vice President-Sales, Pipe & Plastics Group, Certain-teed Products Corporation, Valley Forge, Pa., July 17.
Harry A. Jensen, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, July 17.
W. R. Doughty, Managing Director, Cape Universal Building Products Ltd., Watford, Herfordshire, England, July 18.
Roy A. Jann, Vice President-Sales, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 19.
Thomas W. Russell, Jr., Chairman of the Board & Chief Executive Officer, Abex Corporation, New York City, July 19.
Joseph A. Colagreco, Vice President, Asbestos Corporation of America, Garwood, New Jersey, July 21.
Philip B. Dalton, Executive Vice President, GAF Corporation, New York City, July 21.
Albert G. Kovacs, Manager of Industrial Relations, GAF Corporation, New York City, July 21.
William S. Simpson, Chairman of the Board, President & Chief Executive Officer, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.
Paul E. Leclerc, Regional Sales Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, July 22.
Robert C. Congdon, Eastern Regional Manager, Carey-Canadian Asbestos, Cincinnati, Ohio, July 23.
Richard D. Deininger, Vice President-Research & Engineering, Nicolet Industries, Inc., Ambler, Pennsylvania, July 24.
Edgar L. Melton, President, Gustin-Bacon Group, & Vice President, Certain-teed Products Corporation, Valley Forge, Pa., July 25.
Dimitry Poutiatine, Vice President, J-M Sales Corporation, & General Sales Manager-International, Asbestos Fibre Division, Johns-

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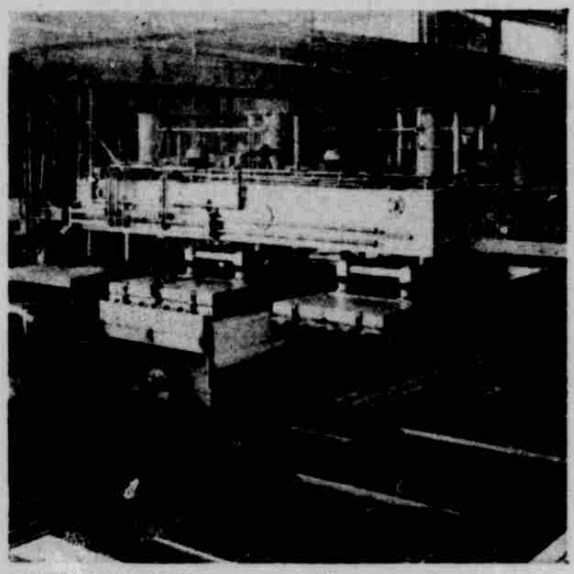
Choose performance and efficiency



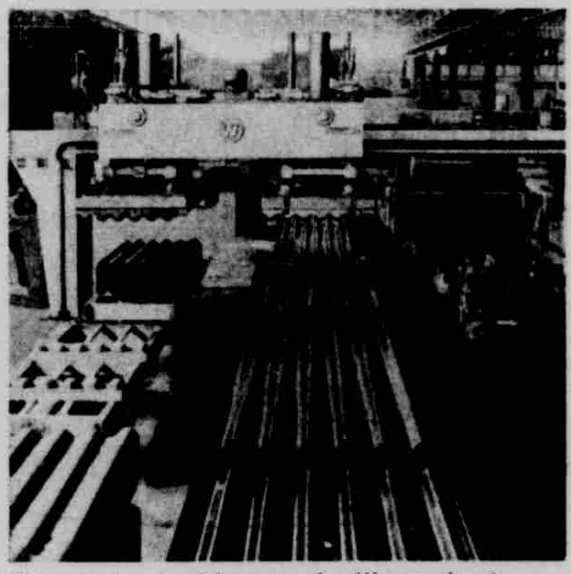
Mazza machine without top felt



Automatic sheet machine



WEHRHAHN corrugating system



Sheet destacking and oiling plant

What are your specific problems? Modernisation of sheet-machine? – Production of special sheets of 9 m length? – Up-to-date pneumatic corrugator? – Plant for pressure pipes? – Automatic socket pipe installation? – Modern laboratory equipment? – Efficient plant for prefabricated walls, sandwich panels (made of asbestos-cement sheets and foamed plastics)? Presses or cutting-presses for high quality sheets? – Automatic consistency control of water, asbestos and cement, during production? – Remember, WEHRHAHN represents more than a man's age of experience with references all over the world! Why not contact them? Ask for up-to-date quotations!
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Manville Corporation, New York City, July 25.
M. Sanfeliu, President, Frenos y Embragues S.A., subsidiary of BBA Group Ltd., Barcelona, Spain, July 25.
Nina Schwezoff, Vice Managing Director, Putten's Asbestos Organization, Johannesburg, Republic of South Africa, July 25.
Richard C. Wareham, President, Special Asbestos Company, Inc., Milwaukee, Wisconsin, July 26.
Bev. Brower, Director of Advertising & Sales Promotion, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, July 27.
Kenneth Karn, Vice President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, July 29.
Thomas A. Dent, Vice President-Commercial Development, GAF Corporation, New York City, July 30.
H. B. Dugmore, Chairman, New Amianthus Mines (Pty) Ltd., Johannesburg, Republic of South Africa, August 4.
Edward J. Killian, President, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, August 4.
Edwin A. Martin, President, Uniroyal International Company, a division of Uniroyal, Inc., New York City, August 4.
John J. McDermott, Vice President & General Manager, Nicolet of California, Inc., Hollister, California, August 5.
H. Kenneth Passmore, Secretary-Treasurer, Hedman Mines Ltd., Timmins, Ontario, August 5.
Lee G. Poole, Advertising Supervisor-Commercial, National Gypsum Company, Buffalo, New York, August 5.
G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.

MINES BUREAU LITERATURE

The following publications are available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402: *Bureau of Mines Research 1972—A Summary of Significant Results in Mining, Metallurgy and Energy* [82 pages, GPO Catalog I28.115: 972, Stock #2404-01335, $1.00]; *The Application of Remote Sensing to Air Pollution Detection and Measurement* [21 pages, 7 figures, GPO Catalog I28.27:8577, Stock #2404-01308, 50c]; *Subsidence Due to Underground Mining—Part 2: Ground Movements and Mining Damage* [53 pages, 29 figures, GPO Catalog I28.27:8572, Stock #2404-01338, 85c].

Free publications available from the Publications Distribution Branch, Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213: *Bureau of Mines Research on Recycling and Disposal of Mineral-, Metal- and Energy-Based Wastes* [54 pages, 27 figures, Information Circular 8595]; *Materials Handling Research—Shear Properties of Several Granular Materials* [36 pages, 25 figures, Report of Investigation 7731]; *An Automatic Data Acquisition System for Underground Measurements* [10 pages, 9 figures, Report of Investigation 7734].

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

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

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

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

And people test each batch.

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

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

Gold Bond
ASBESTOS FIBRES

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ARTICLES, BOOKS & BOOKLETS

The Production of Rubber, Plastics and Asbestos Articles During 1971—written in German; appeared in the January 1973 issue of "Gummi Asbest Kunststoffe." [Available on loan from ASBESTOS]

Constructive Corrugated Asbestos—Cement Sheets BK—written in Russian; published in the December 1972 issue of "Construction Materials." [Available on loan from ASBESTOS]

Best's Safety Directory—a single source of the names and locations of all known manufacturers and suppliers of safety equipment services; alerts the user as to which parts of the voluminous OSHA Act refer to his specific problems, the latest state-of-the-art approach to each of the major hazard categories and what products are available; includes a digest of applicable OSHA Standards and definitions for nearly 4000 products in 80 major categories. [$20.00; order direct from A. M. Best Company, Safety Division, Park Avenue, Morristown, New Jersey 07960]

Environmental Science Technology Information Resources 1973—edited by Dr. S. B. Tuwiner in conjunction with The Chemical International Information Center; information retrieval solutions are discussed as well as some of the problems arising from the fact that environmental science is interdisciplinary, involving sociology, law and economics, and technology. [218 pages, hard cover, $18.00; available through ASBESTOS or from Noyes Data Corporation, Park Ridge, New Jersey]

What Mining Means to Canada—Canada produces over 60 different mineral commodities and leads the world in per capita annual mineral production; this full-color booklet discusses the history of Canadian mining, a prospector's great treasure hunt, the development stage of mine-making, the road from mine to market, and how mining is a vital contributor to Canada's export trade; other sections are concerned with research, pollution control and government; the booklet lists over 100 common mining terms and tools. [Available free, in English or French, from The Mining Association of Canada, 20 Toronto Street, Toronto 210, Ontario]

ISA Literature—"Electrical Safety Practices, Monograph 113" contains 15 papers on aspects of intrinsic safety and material and area classification ($9.00). . . . "1973 ISA Instrumentation Publications and Educational Aids Catalog (Free). . . . "1972 Annual Conference Publications" lists over 100 instrumentation papers focusing on the state-of-the-art, applications and profits. This free pamphlet lists 16 "Preprints Booklets" of related papers on specific areas of instrumentation, including measurement and automatic control, and describes the four parts of the "Proceedings" of the 27th Annual ISA Conference and concurrent Symposia held in October 1972. [For prices and other information, contact the Instrument Society of America, 400 Stanwix Street, Pittsburgh, Pennsylvania 15222]

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High costs for asbestos?
Pollution?
Asbestosis from crocidolite
or amosite?

No more with

"Wet process ispra" ®

Asbestos milling for sheets
and pipes plants

ispra s.p.a.
paderno dugnano - milano (italy)
telex 32688

NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, for 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittances should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be given.

U.S. 3,715,329—a heat vulcanizable silicone rubber composition for coating electrical wires or electrical components comprises 5-75% by weight of Crocidolite or Anthophyllite asbestos, 5-94.47% of an organopolysiloxane polymer, 0.25-10% of methyl acrylate and small amounts as required of other conventional ingredients; F. J. Glaister; assigned to General Electric Company, February 6, 1973; 10 pages.

U.S. 3,719,601—oil-producing wells or pipelines in arctic environments are thermally insulated with jackets filled with a slurry comprising (1) 90-99% by weight of a paraffinic mineral oil having a viscosity in the range of 100 to 200 SUS at 210°F, and (2) 1-10% of Chrysotile asbestos shorts or fibrous magnesium silicate; C. L. Jacocks; assigned to Continental Oil Company, March 6, 1973; 4 pages.

U.S. 3,721,637—in the opening and dispersing of asbestos pencils, the slurry of pencils is treated with a selected acrylic or methacrylic acid polymer and the slurry agitated moderately to form a homogeneous and highly dispersed suspension for use directly in the manufacture of paper, board, flooring, etc.; F. D. Schultz & H. J. Fogel; March 20, 1973; 4 pages.

U.S. 3,722,201—in the manufacture of an improved yarn using asbestos fibers of relatively short length, an overlying asbestos fiber strip web is twisted together with a core comprising filaments of a polymer of tetrafluoroethylene and optionally up to 25% of rayon fibers; J. J. Whalen; assigned to Johns-Manville Corporation, March 27, 1973; 3 pages.

U.S. 3,723,214—a high-temperature laminate for fabrication into rocket nozzles or the like comprises progressively a sheet of preheated steel, an adhesive, pre-conditioned graphite, an adhesive, and a pre-conditioned phenolic asbestos heat barrier; the laminate is pressed and the pressed structure cured; D. Meraz, Jr.; assigned to U.S. Secretary of the Navy, March 27, 1973; 3 pages.

U.S. 3,723,311—a clay-free, stable, aqueous drilling fluid of good viscosity, yield value, gel strength and fluid loss properties comprises optimum proportions of ground asbestos, ground gilsonite, flaxseed meal, ethoxylated nonyl phenol and fresh or salty water; J. L. Lummus & C. D. Edwards; assigned to Amoco Production Company, March 27, 1973; 7 pages.

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GSA LICENSING RULES

Broader licensing of Government-owned patents to U.S. business is expected as a result of recent licensing regulations issued by the General Services Administration, implementing President Nixon's August 1971 directive on patent policy. Under the new regulations, nonexclusive licenses are generally preferred since all interested parties would be able to utilize the inventions, provided they could be promoted commercially without exclusive rights. Arrangements have been made for patent applications filed by the various agencies since the beginning of Fiscal Year 1973, and patents issuing to the agencies from that date, to be transmitted to the National Technical Information Service, U.S. Department of Commerce. NTIS will publish abstracts of the inventions in its abstract journals and will regularly publish, in the Federal Register, lists of the patents and applications.

ASTM "GOING METRIC" KIT

The American Society for Testing and Materials has prepared a "Going Metric" Kit complete with slide rule, instructions to ASTM Technical Committees on Metric Conversion and ASTM Standard E 380 72—Metric Practice Guide. The slide rule easily performs eight of the most frequently-used conversions from U.S. customary units to international standard (SI) units. The instructions offer guidelines pertinent to the use of SI units in the preparation of ASTM Standards. Standard E 380 is a guide to the use of the International System of Units and includes rules for style and usage, rules for conversion and rounding, and a comprehensive table of conversion factors. It also lists the revisions adopted at the October 1971 International Conference of Weights and Measures, i.e., the addition of the mold as the seventh base unit for amount of substance, the pascal as the unit of pressure or stress, and the siemens as the unit of electrical conductance. [Available from ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103; Publication Code 12-503801-00; $5.25]

NEWS ABOUT ASBESTOS STANDARDS

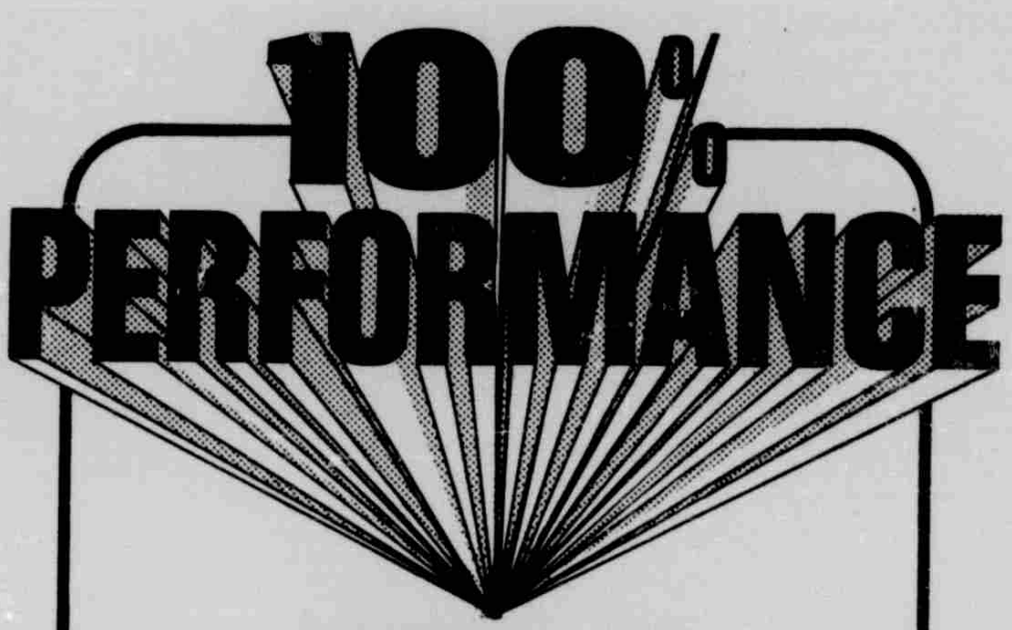
C 541 72—Specification for Linings for Asbestos-Cement Pipe. [American Society for Testing and Materials; Revision of Standard; Reference Part 12, 1974; $1.25]

BS 4508:1972(Part 2)—Asbestos-Cement Cased Systems with Air Gap. [British Standards Institution; £1.25, plus 20 pence for orders under £2.00]

BS 567—Asbestos Cement Flue Pipes and Fittings, Light Quality. [British Standards Institution; Metric Revision; £1.25, plus 20 pence for orders under £2.00]

IS 6530 1972—Code of Practice for Laying of Asbestos-Cement Pressure Pipes. [Indian Standards Institution, Rs7.50]

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KENBEST 100% SYNTHETIC NEEDLED FELTS

Kenbest, 100% synthetic needled felts created by Kenyon for excellent performance in the manufacture of asbestos sheet and pipe.

Kenbest felts are strong, have high resistance to abrasion and deterioration under alkaline conditions. They stay clean, have good dimensional stability and, because they're needled, give excellent drainage.

Kenbest 100% synthetic needled felts for dependability and efficient production.

JK **paper machine clothing**

a division of
James Kenyon & Son Ltd.,
P.O. Box 35, Bury BL9 8QE,
England.

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CALENDAR OF EVENTS

UNIVERSITY OF WISCONSIN-EXTENSION—Courses scheduled at the Madison campus unless otherwise noted: Noise Measurement and Control, *August 6-10*; Principles of Construction Specifications Writing, *August 6-16*; Steam Power Plant Supervisory Training Program (Milwaukee), *August 13-17*; Current Trends in the Curing of Inks and Industrial Coatings for Wood, Metals, Plastics and Paper Products, *August 15-16*; Environmental Impact Statements, *September 13-14*; Managing the Industrial Engineering Function (Milwaukee), *September 18-19*; Cooling Towers, *September 25-26*.

INTERNATIONAL STANDARDS ORGANIZATION—General Assembly and Council Meeting, Washington, D.C., *September 4-15*.

15TH INTERNATIONAL ENGINEERING FAIR—Brno Fair Grounds, Brno, Czechoslovakia, *September 7-16*.

BUILDING MATERIALS AND EQUIPMENT—U.S. Trade Mission to Belgium, Switzerland and The Netherlands, *September 10-21*.

NOISE IN MANUFACTURING PLANTS—Seminars sponsored by Bolt Beranek and Newman Inc., *September 10-12* at The Hyatt Regency O'Hare, Chicago, Illinois, *September 24-26* at the Hotel Commodore, New York City.

ASTM COMMITTEE D-30 ON HIGH MODULUS FIBERS AND THEIR COMPOSITES—American Society for Testing and Materials' Headquarters, Philadelphia, Pennsylvania, *September 18-19*.

PORE STRUCTURE AND PROPERTIES OF MATERIALS—International Symposium sponsored by the International Union of Testing and Research Laboratories for Materials and Structures (RILEM), and the International Union of Pure and Applied Chemistry, Prague, Czechoslovakia, *September 18-21*.

FOREIGN OBJECT IMPACT BEHAVIOR OF COMPOSITES—Symposium sponsored by ASTM Committee D-30, ASTM Headquarters, Philadelphia, Pennsylvania, *September 20*.

PROPERTIES OF BUILDING MATERIALS—Meeting arranged by the Materials and Testing Group of The Institute of Physics, Churchill College, Cambridge, England, *September 20-21*.

CREEP AND FATIGUE IN ELEVATED TEMPERATURE APPLICATIONS—International Conference jointly sponsored by ASTM, ASME and IME, Sheraton Hotel, Philadelphia, Pennsylvania, *September 23-27*.

ASTM COMMITTEE E-31 ON COMPUTERIZED LABORATORY SYSTEMS—ASTM Headquarters, Philadelphia, Pennsylvania, *September 24-25*.

SAMA '73—Show for Assemblage, Miniaturization and Automation, Bern, Switzerland, *September 24-28*.

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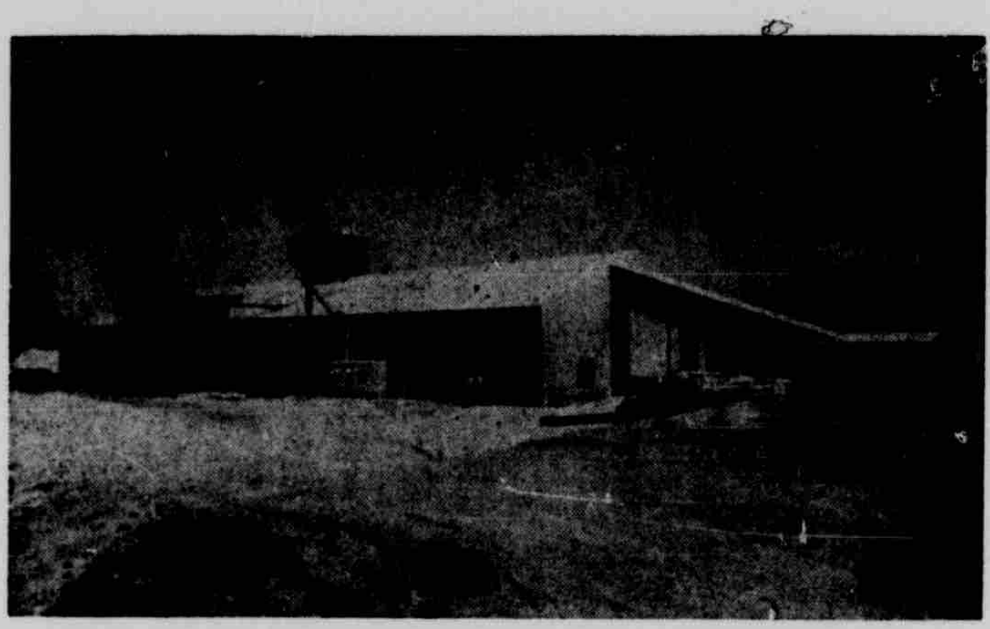
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MINES AND MILL IN GILA COUNTY

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Remember When?

(June 1923 ASBESTOS)

It was reported that the "boom" in business had slackened to a point where the serious inflationary threat which had existed for almost a year had been put to rest.

Dr. Oliver Bowles, mineral technologist with the U.S. Bureau of Mines, was designated by the Secretary of the Interior as Superintendent of the Bureau's new mining experiment station to be established at Rutgers College, New Brunswick, New Jersey. The new station was to undertake the search for solutions to selected problems in mining and treatment for non-ceramic uses of non-metallic minerals.

The death of Franklin Wampole, former Secretary-Treasurer of the Staybestos Manufacturing Company of Germantown (Philadelphia), Pennsylvania, was recorded.

A new company known as "The Darcoid Company" was formed to take over the manufacture and distribution of packings, mechanical rubber goods, and miscellaneous asbestos and rubber products of Dominion Asbestos and Rubber Corporation. Dominion's activities henceforth were to be limited to the manufacture and sale of brake linings and the new Dominion Shock Absorber. Officers of the new company were William M. Meek, President and Treasurer; William F. McClean, Vice President; and M. Rueger, Secretary.

Stockholders of United and Globe Rubber Corporation, Trenton, New Jersey, acting on the advice of an especially-appointed Executive Committee and with approval of the company's creditors, decided to continue its operation as a going manufacturing business.

"ASBESTOS BULLETIN"

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LARGE PUBLIC AUCTION

BY ORDER OF

CANADIAN JOHNS-MANVILLE CO., LIMITED

ASBESTOS FIBRE DIVISION

Asbestos, Quebec, Canada

LARGE MINING & MILLING FACILITY To be sold piece by piece

on the premises . . . **WEDNESDAY, JULY 25, 1973**

COMMENCING 10:00 A.M. EDT • INSPECTION FROM JULY 1st

CRUSHERS (2) Traylor 48" x 60" jaw Crushers, 200 HP; (2) Cedar Rapids Impact Crushers, Model 4350S, 200 HP; etc.—**FEEDERS** (4) Ross Drop Bar Feeders, 6' x 8', 20 HP; (11) Jeffrey Vibrating Feeders, 24" x 48", 300 TPH; etc. —**CONVEYORS** 7,200 lineal feet, 20 degree, Troughing Type Conveyors; 18" to 54" wide, lengths to 1000 ft. each, all independent motor drives—**DRYERS** (8) Horizontal Dryers, 40' long x 5½ ft. dia., cap. 40 to 100 TPH, etc.— **DUST COLLECTORS & FILTERS** (2) Wheelagrator Dust Tube Collectors; model 4-303 & model 4-171, 18,000 CFM & 5,000 CFM; etc.—**FANS & BLOWERS** Assorted Large Fans, to 48" dia., 200 HP ea.—**SCREENS** (8) Symonds-Nordberg 5' x 8' Rod Deck Screens; etc.—**BUCKET ELEVATORS** (8) Bucket Elevators, 20" x 8" x 8½", 35 ft. to 73 ft. long. —**TRAVELING BRIDGE CRANES** Northern 40 ton Traveling Bridge Crane; 60 ft. span, 45 ft. lift Provincal Engineering Co. 10 ton Traveling Bridge Crane, 42 ft. span, 35 ft. lift.—**WELL MAINTAINED MINING & MILLING EQUIPMENT** (3) Harding Weightometors, 36" wide belt; Passenger Elevators & man lift elevators; Cleavor Brooks 100 HP packaged boiler; etc.—**TONS OF MISCELLANEOUS USABLE EQUIPMENT.**

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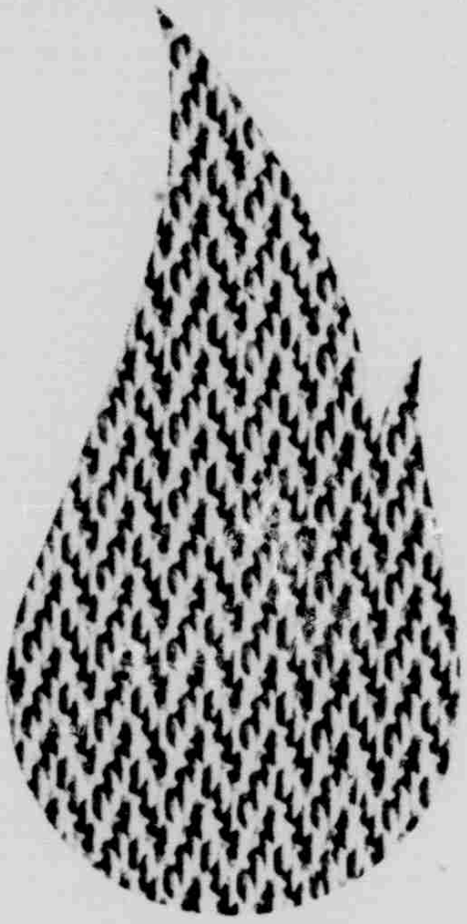
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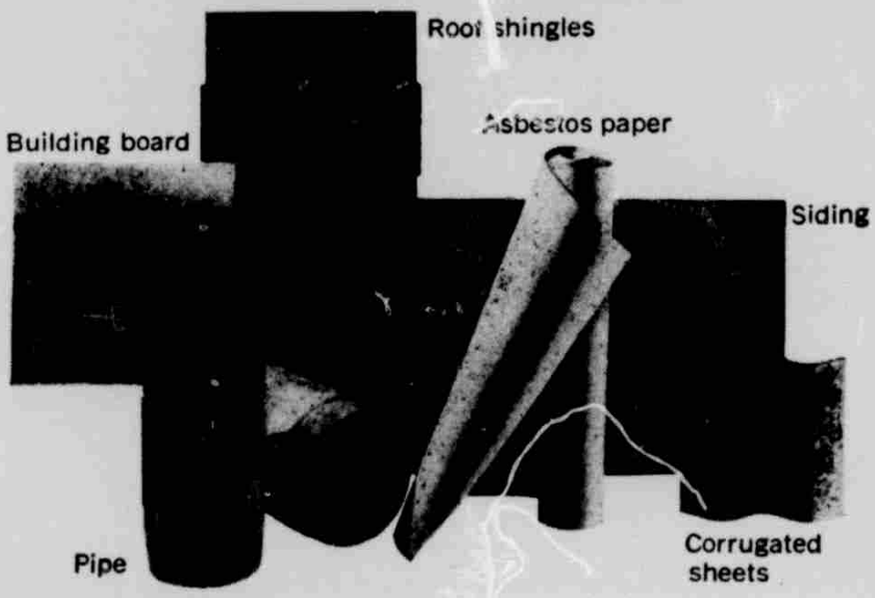
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