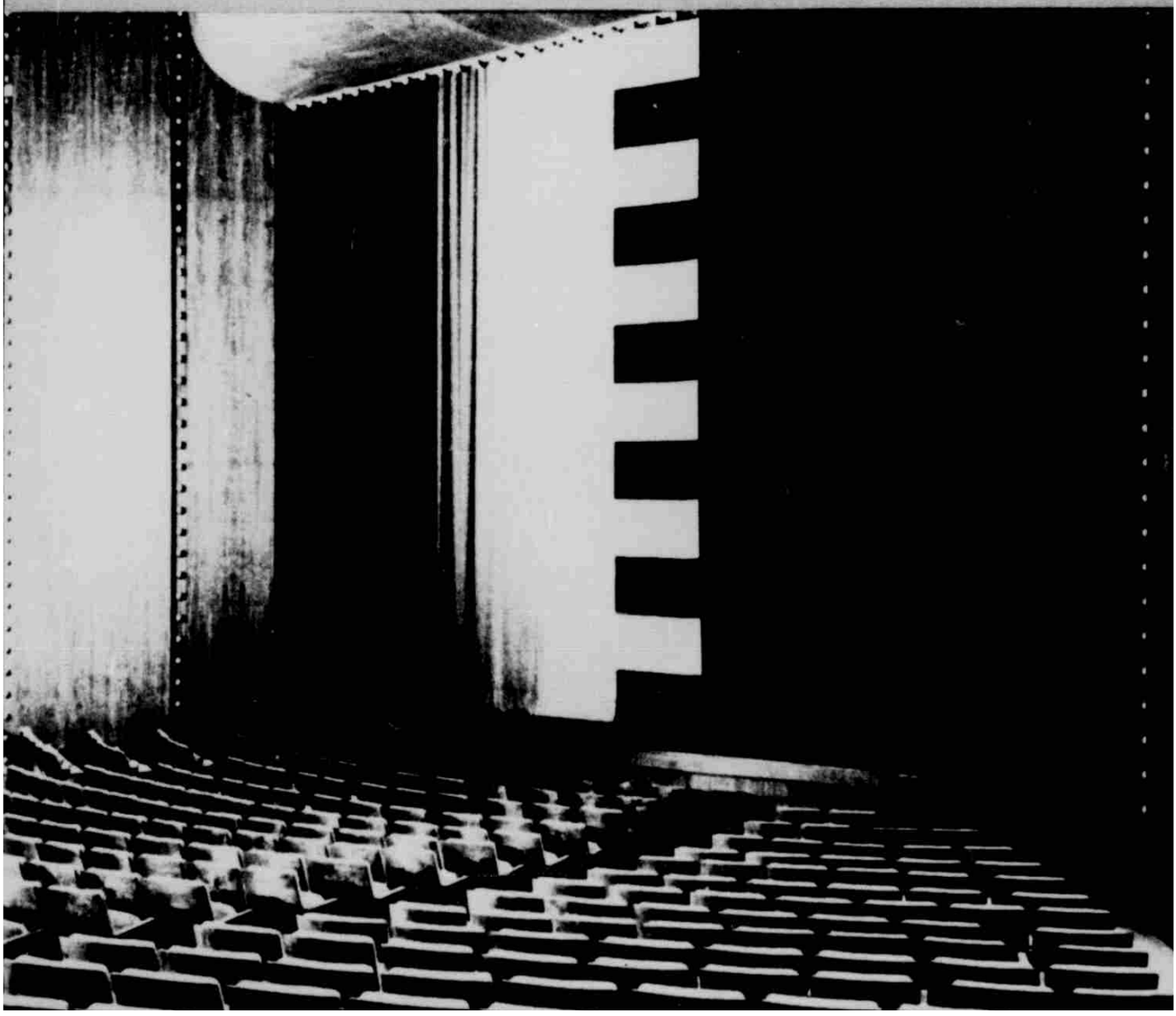
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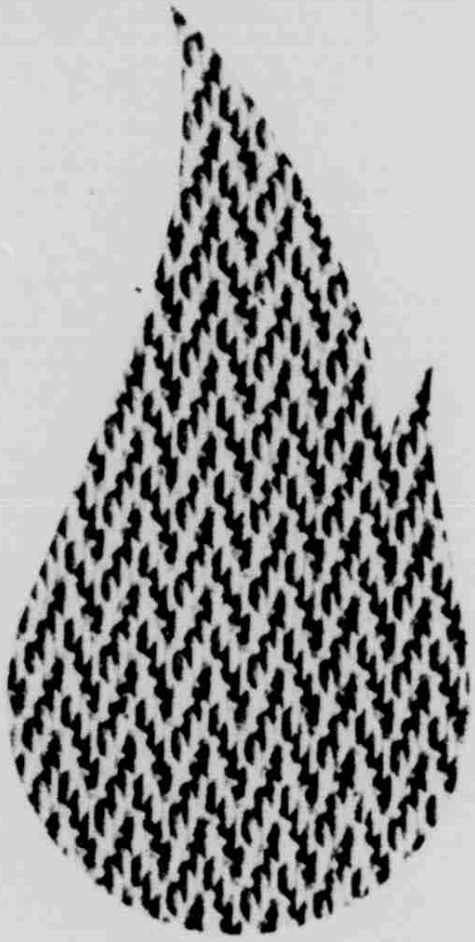
Sailmaker Uses R/M Asbestos Textile at Kennedy Center



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Raybestos Manhattan

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ASBESTOS

VOLUME 54 NOVEMBER 1972 NUMBER 5

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SAILMAKER USES R/M ASBESTOS TEXTILE AT KENNEDY CENTER FOR THE PERFORMING ARTS

In an era of steamships, motor vessels and nuclear-powered ships, the need for the old-time sailmaker is about as great as for a pirate's lookout. But the W. E. Palmer Company, a sail loft established more than 50 years ago at the Long Wharf of Boston, Massachusetts, is thriving today on sailmaker skills although customers for the heavy white duck sails in which it once specialized are few. For most of its business, Palmer now looks inland to theaters, schools and auditoriums where there is a growing need for custom-fabricated asbestos textile safety curtains which state and local fire codes demand be installed between the stage and audience areas.

Among the more notable curtains the Palmer loft has produced are those now hanging in the Kennedy Center for the Performing Arts in Washington, D.C. The curtains called for a heavy, high-quality asbestos cloth made by Raybestos-Manhattan, Inc., Bridgeport, Connecticut, specialists in the manufacture of asbestos textiles. Tailored by Palmer, the curtains were rigged by a theatrical stage contractor for the opening of the Center in September 1971. Each of the larger curtains required 1,000 feet of double-stitched seams and each smaller one needed 720 feet. Four Palmer tailors completed the job in one week on a special heavy-duty sewing machine.

Each of the three curtains in the Theatre Proscenium was made in two sections to cover the front and the back of a 30-foot-high by 45-foot-wide 6" thick steel frame. At the top of the four-ton curtain-frame structure are two sound-retarding curtains. At the bottom, yielding pads of asbestos

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THE COVER

ASBESTOS SAFETY CURTAINS AT THE KENNEDY CENTER FOR THE PERFORMING ARTS IN WASHINGTON, D.C. TAILORED BY W. E. PALMER COMPANY, THE CURTAINS ARE MADE FROM R/M METALLIC ASBESTOS CLOTH, A PRODUCT OF RAYBESTOS-MANHATTAN, INC.

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

For information on how asbestos can help you, contact your local J-M representative or the Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P.Q. Or Johns-Manville Asbestos Fibre Sales, Box 5705-AFD, Denver, Colo. 80217 U.S.A.

Johns-Manville JM



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cloth filled with a noncombustible material seal off the space between curtain and floor.

The Center's Opera House has four similar curtains, also equipped with sound-retarding curtains at the top and yielding pads at the bottom. Two of the curtains measure 45 feet by 55 feet and weigh six tons on their steel frames. The other two curtains are the same size as those in the theater section, 30 feet by 45 feet.

The Kennedy Center curtains are made from R/M metallic asbestos cloth (82% asbestos and 18% cotton with a brass-wire insert) and can withstand temperatures as high as 450°F. They have a heavy skim-resin coating which lays the fiber and prevents the material from shedding asbestos particles. The coating also makes the cloth easy to paint—in contrasting or harmonious tones as are the Kennedy Center curtains; or in decorative, multi-colored detail.

Raybestos-Manhattan, Inc., headquartered in Bridgeport, Connecticut, manufactures a complete line of asbestos textiles, including asbestos lap, roving and cable fillers; asbestos yarn, cord and thread; woven asbestos tape, thermal insulating tapes; and a variety of asbestos cloths.

W. E. Palmer Company began working with asbestos textiles less than twenty years ago and now is one of the largest makers of asbestos curtains in the United States. The firm also makes asbestos welding blankets and other industrial safety products. According to Sydney Miller, President of Palmer, the firm "eased into tailoring of asbestos textiles gradually, working on a scale small enough to allow us to solve most production problems as they arose. But now we're into it *full sail*."

ASBESTOS welcomes the following new advertisers:

Peat, Marwick, Mitchell & Co. (page 49)

Professional Health Services Inc. (page 52)

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PLANTS AND MACHINERY FOR THE PRODUCTION OF ASBESTOS-CEMENT SHEETS



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ASBESTOS TEXTILE INSTITUTE

The following new officers were elected by the Asbestos Textile Institute at its third General Meeting of the year held in September at the Seaview Country Club, Absecon, New Jersey: President, M. Q. Scowcroft of Raybestos-Manhattan, Inc.; Vice President, A. Kuzmuk of Garlock Inc.; and Treasurer, E. A. Morris of Uniroyal, Inc. M. J. Scanlan of American Asbestos Textile Corporation was elected to serve on the Board of Governors, replacing J. W. Christenbury who recently resigned. M. S. Lindstrom of Johns-Manville Corporation was appointed Chairman of the Asbestos Advisory Committee, to succeed Mr. Morris who had completed the normal two-year term.

The four working committees met as usual. Of special importance was the open meeting held by the Fiber Testing Committee to acquaint members of other committees with plans for the Third Edition of the Chrysotile Asbestos Test Manual.

Legal Counsel, W. B. Alcorn of Cadwalader, Wickersham & Taft, referring to the permanent standard regulating industrial exposure to airborne asbestos dust (OSHA) which was published in June of this year, reviewed one area in which a trade association such as ATI could take lawful concerted action aimed at influencing governmental processes and obtaining governmental action with respect to the interpretation, implementation and enforcement of the new standard.

E. A. Farrell of Lake Asbestos of Quebec Ltd. reviewed the usage of Canadian asbestos spinning fiber by various countries during 1971 and stated that all grades of fiber, except for Group 7, are currently in good supply. Of particular interest were his comments on recent developments among asbestos mining companies in several countries.

On behalf of ATI members, incoming President Scowcroft presented a beautiful Atmos clock to retiring President L. E. Moody, H. K. Porter Company, Inc., in appreciation of his outstanding leadership during the last two years. Mr. Moody expressed his appreciation for the gift and thanked the members for their help and cooperation in connection with his presidential duties.

Mr. Moody concluded the meeting by announcing with regret that Herbert E. Sunbury had submitted his resignation as Executive Secretary and Assistant Treasurer, effective by the end of 1972. Mr. Sunbury has ably served in these capacities since July 1, 1963.

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SIMULATED ASBESTOS BOARD

Papermaking sludges and clay wastes can be transformed into top-grade products by a process patented by Plastics Research Laboratories of Tideswell, Derbyshire, England. One product in a range of varying types of board is a simulated asbestos that has fire-retardant capabilities comparable to those of asbestos but whose manufacture and use involve none of the health hazards associated with asbestos.

Various news reports written in the style of pure sensationalism prompted the editor of this magazine to contact some asbestos products manufacturers in the U.K. One gentleman replied that in his "personal opinion [the new process] will not be of much significance. It is concerned with the reinforcement of asbestos materials with paper and cellulose fibers which has been the subject of considerable research already by most of the major manufacturing companies in the industry." Another responded, "The only claim made for it so far is that it has as good resistance to the spread of flame as asbestos building board. There are, however, other characteristics of asbestos building board which are important from a fire protection point of view, e.g. heat resistance, fire resistance and thermal conductivity. Until technical data are available from the manufacturer it is impossible to make any technical comparison with asbestos fire protective building boards." PRL advises the process is still "confidential."

FRANKLIN FIBER

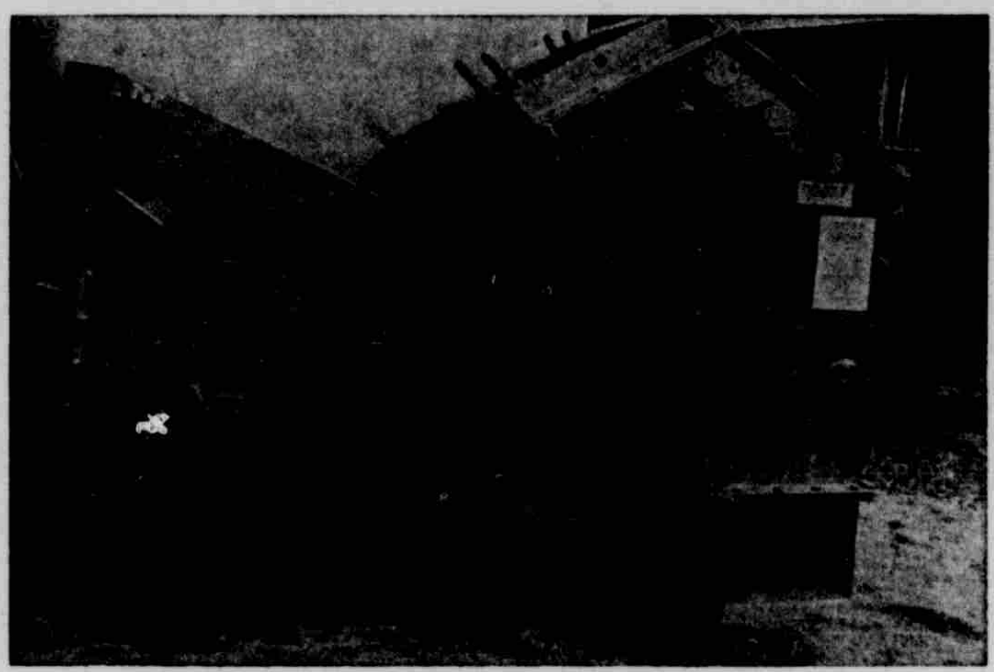
Franklin Key, Inc., recently formed by The Franklin Institute and Certain-teed Products Corporation to commercially evaluate and exploit new technology, has many developments under evaluation including a non-toxic synthetic material called the Franklin Fiber. It embodies two long-sought technological breakthroughs: a non-hazardous, fire-resistant substitute for asbestos and low-cost, high-strength fiber material for aerospace and other industrial applications. The fiber is being tested for such uses as a reinforcement in plastics, metals, ceramics, foams and asphalts; a fireproofing and stabilization against moisture of wall boards, insulation and laminates; and as a spray insulation against fire.

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Industrial Machinery
Supplies (Pty.) Ltd.
Johannesburg, So. Africa

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INSULATION HYGIENE PROGRESS REPORT

The Fall 1972 Progress Report from the Insulation Industry Hygiene Research Program elaborated on three meetings held in July by West Coast local unions of the International Association of Heat and Frost Insulators and Asbestos Workers to be brought current on the latest results of the IIHRP. Dr. I. J. Selikoff documented the health hazards of insulators and emphasized the high risk of lung cancer among cigarette smoking insulators; Dr. W. J. Nicholson reviewed some of the past work practices that were especially dusty; and Mr. D. A. Holaday discussed techniques and materials that would reduce asbestos workers' dust exposure to a minimum. Many questions were brought to discussion including the inadequacy of the Social Security program in that it only recognizes *total* disability. It was suggested that an Asbestos Act is needed, similar to the Coal Mine Act of 1969, whereby all Americans, through the Social Security system, must pay the cost of disability for asbestos workers.

PERSONAL PROTECTION

The disposable respirator from *Welsh Manufacturing Company*, a Textron Company headquartered in Providence, Rhode Island, meets Bureau of Mines Schedule 21B for pneumoconiosis-producing and toxic dusts. Special inhalation/exhalation valve system prevents moisture build-up and lengthens filter life. . . . *David Clark Company, Inc.*, Worcester, Massachusetts, is marketing the universal muff/eye glass adapter, called Stop-Gap, that preserves the attenuation for which the muff-type hearing protector was designed. Also, Clark added Model E-310 to its Straightaway hearing protector line to provide dependable protection against high and low frequency noise. . . . The *Willson Products Division of ESB Inc.*, Reading, Pennsylvania, issued Form W7210 as a guide to proper equipment for eye protection in industrial jobs. Options are offered that meet the most stringent of OSHA requirements. . . . Capabilities in air, water and sound measurement and analysis are documented in a bro-

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UNIROYAL

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chure from *Commercial Testing & Engineering Company*, Chicago, Illinois. CT&E performs tests and recommends measures that comply with pollution control regulations.

HOFFMAN EQUIPMENT

Hoffco-Vac 237, a portable vacuum cleaner with a disposable safety bag, is the subject of Bulletin ASV-105 issued by the Hoffman Air Systems Division of Clarkson Industries, Inc., New York City. New OSHA Standards prohibit the use of brooms to clean up asbestos, and vacuum cleaning is now required. A patented feature of the new system prevents the operator from ever coming in contact with the material being removed. . . . Hoffman's new Vacumatic dust separators, that provide uninterrupted operation of vacuum cleaning systems, are said to be ideal for use in plants where workers are exposed to high levels of asbestos dusts. . . . Other literature from Hoffman are Bulletin ACB-710 on centrifugal blowers and exhausters and Bulletin ASV-623 on high-velocity industrial vacuum cleaning and dust control systems.

KLEISSLER CLEANS UP

G. A. Kleissler Company, Edison, New Jersey, distributed a pamphlet on its capabilities for design, fabrication and installation of air clean-up systems. Among the case histories described is how a Kleissler system was used with success in eliminating the inadequacy of an existing system at a floor covering manufacturing plant. The problem of airborne limestone dust and toxic asbestos fiber was disposed of at less than 70% of the cost of an entire new system.

JOHNSON-MARCH CONTROL SYSTEMS

The Chem-Jet dust suppression system is described in a product brochure from Johnson-March Corporation, dust control engineers located in Philadelphia, Pennsylvania. Explained as the only system engineered for effective, low-cost control of dust at its source, its basic components are compound M-R, a proportioner, a controller, control actuators

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BELL ASBESTOS MINES LTD.

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CANADA



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and a spray jet header. . . . Other Johnson-March booklets include Bulletin 8002-7 on Sky-Kleen Pulsamatic Bag Collectors and Bulletin 8002-8 on Sky-Kleen Intermittent and Continuous Duty Bag Collectors.

AERODYNE COLLECTS DUST

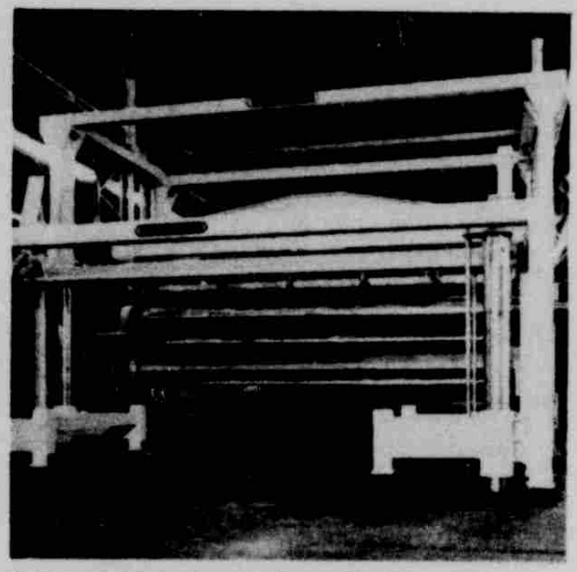
The Airliner is a simplified fabric filter dust collector, introduced by Aerodyne Development Corporation, Cleveland, Ohio, that eliminates complicated controls and increases effectiveness of dust collection. Operating with a double bag, one inside the other, the collectors use low velocity air to clean the bags. Ask for Catalog 572. . . . ADC opened a test laboratory fully equipped for running product tests on Aerodyne dust collectors and pneumatic conveyors.

BENECKE & METZ RETIRE

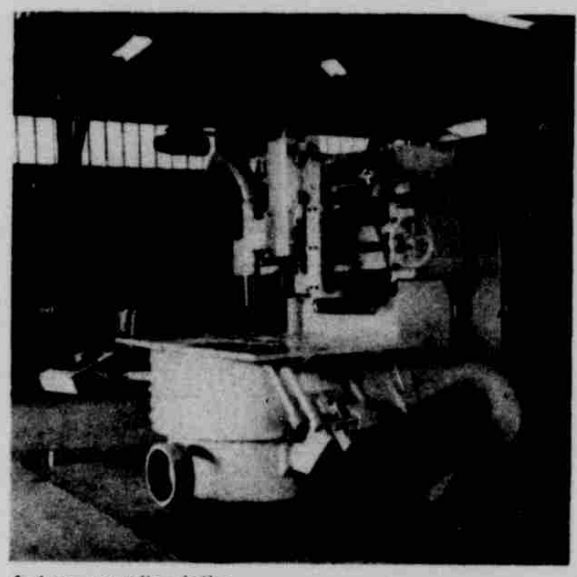
HANS RUDOLF BENECKE retired as Managing Director of Everite Ltd., Johannesburg, effective September 1st. He remains as a non-executive member of the Board of Directors. Mr. Benecke was sent from Switzerland in 1940 specifically to establish an asbestos cement factory in South Africa. A company was formed in 1941 and three factories were later erected—at Kliprivier, Transvaal, in 1941; at Brackenfell, Cape Province, in 1946; and in the border area at East London in 1966. Under Mr. Benecke's leadership, Everite formed a Plastics Division, various subsidiary companies and a network of agents and distributors augmented by company branches and depots throughout South Africa and South West Africa. *H. Thoeni* succeeds Mr. Benecke as Managing Director of Everite. . . . DONALD A. METZ retired from Van Horn, Metz & Company, Inc., Conshohocken, Pennsylvania, on September 1st. He started his career in the paint industry in 1941 and from 1946 to 1949 he was associated with Atlas Powder Company. Early in 1950 he and Harold M. Van Horn founded the Van Horn, Metz firm. Mr. Metz now is Assistant Head Master and athletic director at Kimberton Farms School, Phoenixville, Pennsylvania.

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Autom. pipe lathe



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TAC (NIGERIA) CONTRACTS

Turners Asbestos Cement (Nigeria) Ltd., a Turner & Newall company, is supplying asbestos-cement pipes for water projects throughout the East Central State of Nigeria and at Zaria and Katsina in North Central State. The orders are part of a three-phase plan involving a contract worth £¾ million.

NEW NAME FOR AN OLD FIRM

After more than fifty years as Philadelphia Asbestos Corporation, the company has changed its name to *PACOR INC.* believing the emphasis of "asbestos" in its corporate name no longer reflects the broad range of thermal insulation products it distributes and the various services it performs. PACOR represents Amchem-Benjamin Foster, Pittsburgh Corning, Childers and Zeston and distributes asbestos-containing materials manufactured by Johns-Manville, Canadian Johns-Manville and American Asbestos Textile Corporation.

J I CASE LITERATURE

Several descriptive catalogs have been issued by the Construction Equipment Division of J I Case Company, Racine, Wisconsin, a Tenneco company, including Catalog UD060371K on the 580B Construction King Loader/Backhoe with increased horsepower and a 4000-pound load capacity. The backhoe has a maximum reach of 25'2" and extends 14½ to 18½ feet. . . . Uni-Loaders are described in Catalog UD60471K as having 13 available attachments including an 8½-foot or a 10½-foot backhoe for trench digging. . . . According to Catalog CE70672E, the 880 Excavator can dig to depths of 19½ feet and has a 10,000-pound lift capacity plus a hydraulics system that provides maximum power and speed for simultaneous use of all digging functions. . . . Two other catalogs illustrate the 1150 Loader (CE70472D) and the 1150 Dozer (CE69572C). Steering, turning, starting and stopping are all operated with one hand. . . . The improved W24B Loader is described in Catalog CE71772G as having a 23,700-pound hydraulic lift capacity teamed with the stability of a 23° rear axle oscillation.

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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

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It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

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Gold Bond
ASBESTOS FIBRES

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PROCESSING/MATERIALS HANDLING

SEPARATION EQUIPMENT

Liquids and solids separation equipment for processing and pollution control are featured in Bulletin G-48 recently issued by *The Bauer Bros. Co.*, Springfield, Ohio, and Brantford, Ontario, a subsidiary of Combustion Engineering, Inc. C-E Bauer's Centri-Cleaner Liquid Cyclone provides continuous removal of settleable solids as fine as 10 microns from slurries or process liquids. The clarifier removes settable solids from effluent, industrial waste fluids and coolants. The Hydrasieve is a simple but efficient screening device for dewatering, thickening, classifying and removing (or recovering) solids from low-consistency slurries.

FLUID BED DRYERS

Procedyne Corporation, New Brunswick, New Jersey, added a line of intermediate capacity, continuous process fluid bed dryers to its FBD Series. Performance features include high heating rates and the ability to handle high-moisture products plus many substances which display poor fluidizing characteristics. . . . Bulletin AW-100-1 describes Procedyne's new AW Series Fluid Bed Dryers for granules, crystals, powders and many difficult-to-fluidize products. Dryers in this Series incorporate a number of new design concepts that offer a reduction in the possibility of explosion, elimination of product leakage and contamination, and rapid drying rates.

HEAT RECOVERY BOILERS

Eclipse Lookout Company, Chattanooga, Tennessee, introduced a new line of boilers designed to recover heat that would otherwise be wasted in the exhaust from heat generating equipment and to use the recovered heat for generating steam or hot water. The boilers are suitable to recover heat from devices that exhaust clean, hot gases from 600°F to 2000°F. Fifteen boiler models are available that operate at pressures from 15 psi to 250 psi for handling exhaust gas volumes from 2000 Scfm through 32,000 Scfm.

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For every AC product and every machine there's a specific Albany Felt to help you make more money.

Albany's pacesetter felts help you make more profit.

PIPE MACHINES:

Albany's new yarns in the base fabric with new chemical treatments *resist compaction and maintain size* for longer, trouble-free runs.

100% Synthetic Needled Asbestos Cement Felts of the latest Albany-design work better, longer, and more profitably for you. Ask your Albany Felt Representative to prove it.

ALBANY
FELT COMPANY
OF CANADA LIMITED

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LIQUID SAMPLING

Catalog 20 describes modern sampling techniques for liquids or slurries using the latest ISOLOK Series M-4 Samplers available from *Bristol Engineering Company,* Yorkville, Illinois. Data on equipment for on-line analysis sampling plus the withdrawal of samples from highly abrasive or viscous materials are included.

CONVEYOR-MOUNTED SAMPLING

According to the Construction Products Division of *Gerald C. Bower, Inc.,* Orange, California, conveyor-carried bulk materials can easily and accurately be sampled with the Bower Automatic Sampler. At the push of a button, the sample is delivered safely and conveniently to the operator without interruption in production.

VIBRATORY FEEDERS

A new high-volume, electro-permanent, magnetic drive feeder, Model 105B, was announced by *Eriez Magnetics,* Erie, Pennsylvania, as having a feed rate of 500 tons per hour (based on sand, crushed stone or similar materials weighing 100 pounds per cubic foot). . . . Eriez also announced a new line of HI-VI heavy-duty vibratory feeders with maximum feed capacities ranging from 50 to 350 tons per hour. Complete details are given in Bulletin VB-3301.

INDUSTRIAL BINS

Industrial bolted steel bins are described in Storage Bulletin 6020 obtainable from *Sprout, Waldron & Company, Inc.,* Muncy, Pennsylvania. Standard models of the round bins are available in ten diameters and in nine (8′ module) heights for capacities ranging from 1,600 to 32,000 cubic feet. Hoppers and metering feeders can be added to most sizes to make complete packages for bulk receiving and transfer to in-plant or working bins.

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World Wide CONSULTING SERVICES

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South Africa:	Msauli, Barberton
West Germany:	Asbestos Corporation, Nordenham

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

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WEIGHING BY COMPUTER

"Electronic Answers to Today's Weighing Problems" are given in a brochure issued by *Orbitran Company, Inc.*, Lakeside, California, to describe the four steps that should be considered when developing an industrial or process weighing system. . . . Two systems recently introduced by Orbitran are the Weigh-Log Computer Model WL-10 and the Force Computer Model 880. WL-10 is a solid state digital weighing, ticket-printer recording and display system designed for use with load cell compatible platforms, conveyors, cranes and in-motion weighing systems. It is suitable for recording weight ranges from grams to megapounds. Model 880 is a modular digital computer for industrial weighing and process control systems. It has a guaranteed accuracy of ±0.01% of reading or one least digit and a resolution of up to one part in 100,000 standard.

IDLER CONVEYOR SCALES

The Weighing Systems Division of *Fairbanks Morse*, St. Johnsbury, Vermont, announced a complete range of electronic belt conveyor scales that weigh industrial and mining materials as they are being belt-conveyed and show the accumulated total on an electronic display instrument. The belt speed compensation assembly includes a tachometer generator specially selected for continuous operation in harsh environments. Fairbanks Morse is a Colt Industries company.

DIGITAL FLOW CONTROL

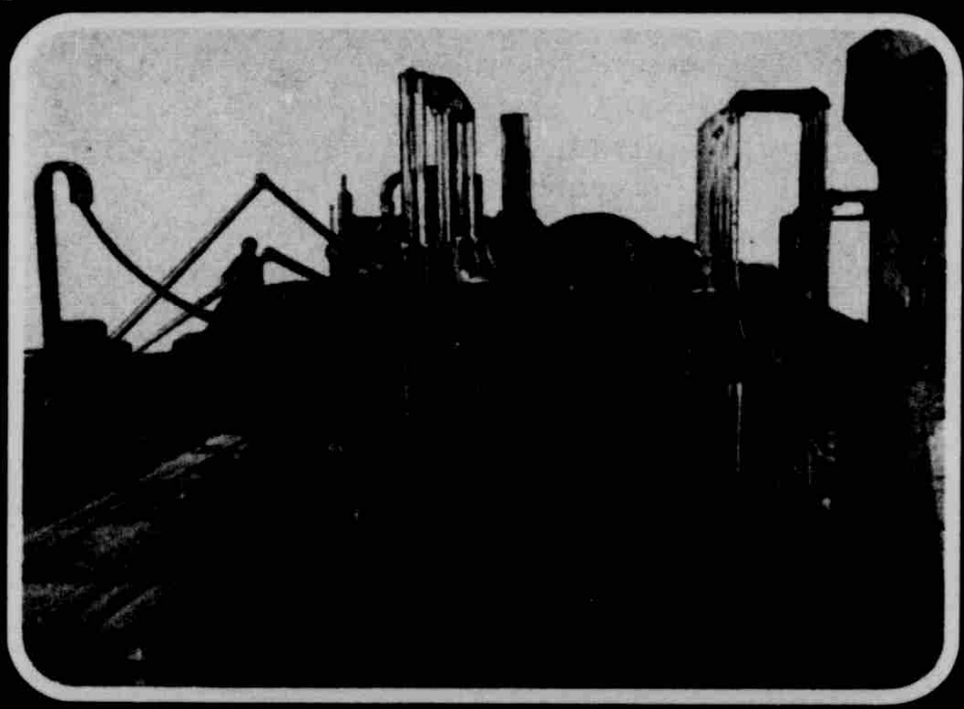
The Frequency Based Flow Controller, when used with the 1-128 Digital Flow Integrator, provides errorless flow rate control of variable speed-type weigh feeders and belt scales, according to the Thayer Scale Division of *Cutler-Hammer Inc.*, Pembroke, Massachusetts. Ask for Bulletin 5D62.

WEIGH FEEDERS

National Controls, Inc., Santa Rosa, California, has a new product line of weigh feeders that accurately control the proportioning of materials into a process. The feeders incorporate NCI's unique DIGIFLEX Scale configurations.

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50 years of experience in the field of
MACHINERY and PLANTS
for PIPES, SHEETS and FITTING
in ASBESTOS CEMENT



RIVA-CALZONI S.p.A.

Stabilimento CALZONI
Via Emilia Ponente 72 Bologna Italy
Telex 51156 CALZONI Telephone 384631

Fitting machines are manufactured by Riva Calzoni S p A - Bologna one the basis of patents and processes of Fibronit - Milano - Italy

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MARKET CONDITIONS

GENERAL BUSINESS

In retrospect, and taking into account certain revisions in statistics, business in 1972, after a strong first half, slackened during the summer but is now showing signs of resuming its basically sound upward tendency. Sales of consumer goods, particularly consumer durables, are excellent and the boom in housing continues although some economists are predicting a downtrend in this market starting early in 1973.

Expenditures for capital goods are high and are still in an uptrend. It is interesting to note that purchases of machinery and equipment are proportionately stronger than those of new buildings. With overall plant utilization estimated around 85% of capacity, it seems evident that manufacturers are taking advantage of the tremendous improvements in machines to increase productivity without commensurate increases in floor space.

Biggest news on the inflation front came when the Price Commission rejected requests for price increases from Ford and General Motors. The companies' requests were based, in large part, on increased costs incurred in meeting Federal pollution and safety requirements. The Commission's decision was based on the fact that auto industry profit margins are already so high that any price increases would have caused profits to exceed the Commission's limits. This is by far the most important decision yet made by the Price Commission dealing with *specific* cases.

The stock market moved lower during early October as investors maintained a "wait and see" attitude in the absence of any really big, good news. By the time this reaches print the Presidential election will have been decided and there is a distinct possibility a Vietnam settlement of some sort will have been announced, both of which should result in a stronger market.

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ASBESTOS

HUXLEY DEVELOPMENT CORPORATION

Anthophyllite
Chrysotile
Crocidolite
Amosite

TIME & LIFE BUILDING
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NEW YORK, N. Y. 10020

TEL: 212 581-0660
CABLE: HUXLEYCORP
TELEX: 420195

OUR 25TH YEAR

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CONSTRUCTION NEWS

SEPTEMBER 1972—Across-the-board strength in contracting for new construction sent the Dodge Index for September to a new high of 187. The value of contracts for future construction totaled $8,197,448,000, 23% over September 1971.

Nonresidential building contract value was up 7% and totaled $2,378,129,000. Stores, hospitals and manufacturing plants posted gains of one-third or more during the month, but declines in public buildings, offices and educational buildings limited the gain in the overall total.

Residential contracts were valued at $4,135,381,000, showing a 34% gain over last year's value. Both apartments and single homes rolled up sizeable gains.

Nonbuilding construction contracts, at $1,683,938,000, were ahead a strong 28% with utilities and sewer and water facilities showing sharp gains.

Cumulative construction contract value for the first nine months of 1972 totaled $69,712,711,000: Nonresidential, $20,419,079,000, up 5%; Residential, $34,383,621,000, up 34%; Non-building, $14,910,011,000, down 5%. The nine-month total was 15% ahead of the same period in 1971. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

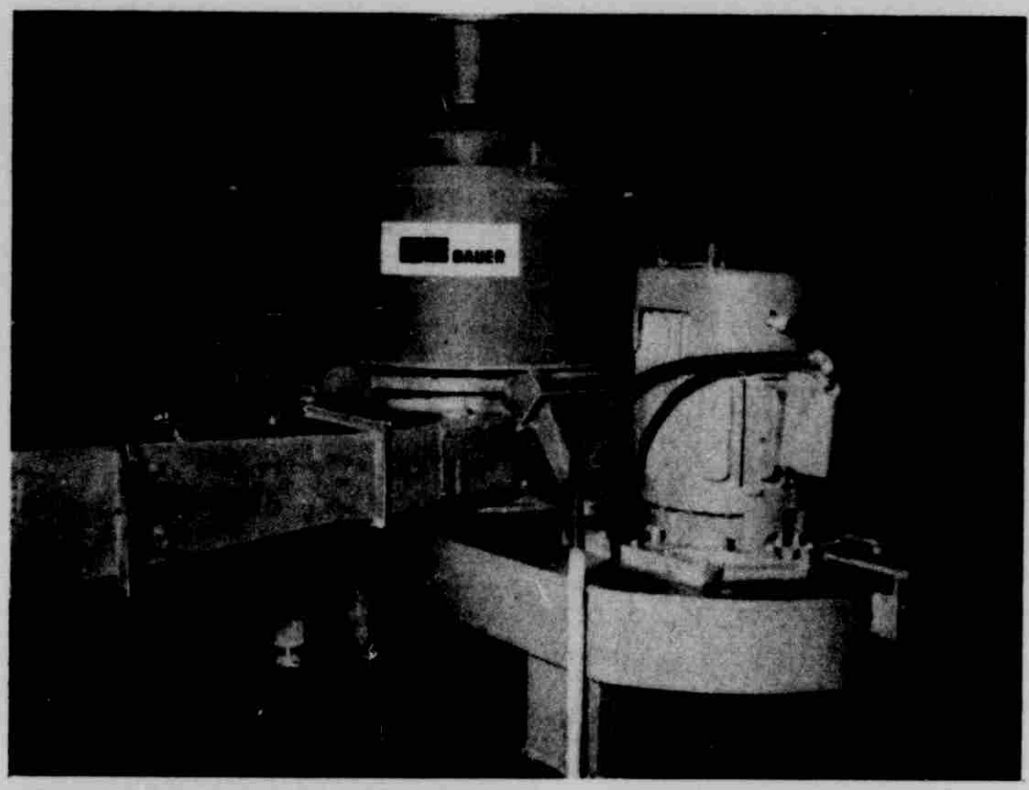
MOTOR VEHICLE FACTORY SALES

AUGUST 1972 motor vehicle factory sales from plants in the *United States* totaled 551,900 (passenger cars—398,521; trucks and buses—153,379). The cumulative total for the First Eight Months of 1972 was 7,062,398 compared with 6,948,964 for the same period in 1971. . . . Motor vehicle factory sales from plants in *Canada* totaled 67,481 in August 1972. The cumulative total for January-August 1972 was 944,189 against 882,453 for the like 1971 period. [Automobile Manufacturers Association]

Have you ordered your copy of

"The Asbestos Factbook"?

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C-E Bauer puts the "class" in classifiers

What is routine for the C-E Bauer Centri-Sonic Classifier is usually impossible with conventional units. For example:

Removal of foreign particulate matter. Finished short fibre is "cleaned" of even extremely small quantities of rubber particles which come from conveyor belts, etc. Also . . . grit, unopened serpentine and spicules are effectively removed. Quality of end product is improved automatically!

Increasing production; protecting fibre length. On groups 4 and 5 fibres, opened fibre is quickly accepted. Likewise, unopened spicules are quickly rejected. Fast, efficient classification saves time, increases productivity, maintains high product quality and fibre length. Centri-Sonic Classifiers are available up to 4-5 tons per hour capacity. Ask for Bulletin G-8. The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc., Springfield, Ohio 45501 and Brantford, Ontario.

BAUER
COMBUSTION ENGINEERING, INC.

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		JUNE 1972	
Amosite, South Africa	s.tons	1,070	$ 223,652
Crocidolite (Blue), South Africa	s.tons	685	155,348
Chrysotile, Crude, Canada	s.tons	2	2,100
South Africa	s.tons	135	65,075
Chrysotile, Spinning Fibers, Canada	s.tons	1,296	601,382
Chrysotile, Other, Canada	s.tons	70,021	7,145,758
Other Crudes & Fibers, Canada	s.tons	125	9,024
S. Africa	s.tons	89	4,977
		73,423	$ 8,207,316
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	380,517	$ 370,301
A-C pipes, tubes and fittings	Lb	3,020,005	186,839
A-C articles, other	Lb	1,695,871	269,064
Asbestos articles, other		..	252,120
			$ 1,078,324

Unmanufactured Asbestos:		JANUARY-JUNE 1972	
Amosite, Mozambique	s.tons	33	$ 4,773
South Africa	s.tons	4,610	881,415
Crocidolite (Blue), Bolivia	s.tons	29	2,966
South Africa	s.tons	2,063	466,410
Chrysotile, Crude, Canada	s.tons	2	2,100
South Africa	s.tons	835	218,330
Chrysotile, Spinning Fibers, Canada	s.tons	6,521	3,100,317
Chrysotile, Other, Canada	s.tons	362,753	40,943,254
Other Crudes & Fibers, Canada	s.tons	1,552	171,373
Finland	s.tons	1,086	67,992
Greece	s.tons	6	1,361
Italy	s.tons	1	1,111
Mozambique	s.tons	33	4,773
South Africa	s.tons	691	118,972
Switzerland	s.tons	4	1,538
Yugoslavia	s.tons	843	42,611
		381,062	$46,029,296
Manufactured Asbestos Goods:			
Asbestos yarn, slivers, etc.	Lb	2,143,772	$ 1,973,288
A-C pipes, tubes and fittings	Lb	24,210,238	1,186,869
A-C articles, other	Lb	9,958,475	1,592,216
Asbestos articles, other		..	1,267,932
			$ 6,020,305

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Sydney, N.S.W. 2001

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B-1180 Bruxelles

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Caixa Postal 717, Sao Paulo

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Bangkok, Thailand

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Stubbelbgade 5,
2100 Copenhagen

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Oy. Esope Ab.,
P.O. Box 13233,
Helsinki 13

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Etablissements Parly, S.A.R.L.,
10, rue de la Pepinière,
Paris (8e)

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Esplanade 6,
2000 Hamburg 36,
Germany

ISRAEL
Manfred Gottesmann,
P.O. Box 1252, Tel-Aviv

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Piazza P. Clotilde 6,
20121 Milano, Italy

JAPAN
Nissho-Iwai Co. Ltd.,
10 Nihonbashi-Edobashi,
1 Chome, Chuo-ku
Tokyo 103

KOREA
Bookuk Asbestos Company, Ltd.,
K.I.P.O. Box 1101,
Seoul, Korea

NETHERLANDS
Th. J. Verwaaijen & Co. N.V.
Graafstroomstraat 51,
Rotterdam-8, Holland

NORWAY
Beijer (Oslo) A/S,
Drammensvn, 840,
1370 Asker

PORTUGAL
Mundial Export Corporation,
500 Fifth Ave.,
New York, N.Y., 10036, U.S.A.

SPAIN
Ceamconsult S.A.,
Viale Degli Ammiragli, 71,
00136 Roma, Italy

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International Import-Export Ltd.,
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Singapore, Malaysia

SWEDEN
Beijer Kemikalie AB,
Bjurogatan 43,
S-211 24, Malmo

TAIWAN
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198 Nanking East Road, Section 2,
Taipei

UNITED KINGDOM
A.A. Brazier & Co. (Asbestos) Ltd.,
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309 Chase Road,
London N. 14, 6 JE. England

VENEZUELA
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Apartado 61.649,
Caracas

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

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EXPORTS FROM U.S.A.

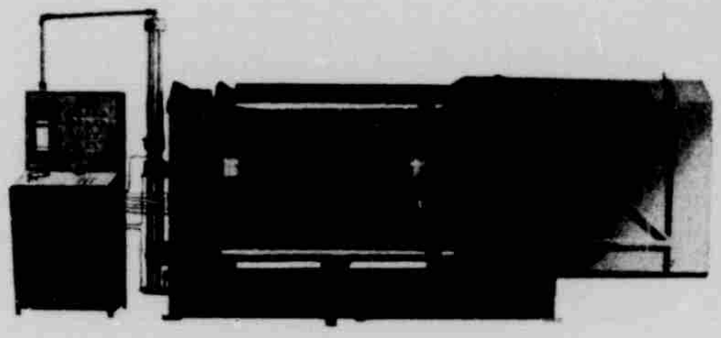
Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**JUNE 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,105	$ 208,333
Waste and refuse	s.tons	3,384	462,348
		4,489	$ 670,681
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,714,251	$ 196,910
Other a-c or fiber-cement articles	Lb	531,362	121,298
Gaskets	Lb	31,567	61,601
Packing	Lb	374,135	496,385
Heat or sound insulation		..	130,349
Textiles and yarns	Lb	1,517,966	385,552
Protective clothing		..	17,502
Mfrs. other than friction materials		..	338,866
Cl. facings and linings for auto. use	No	104,756	139,600
Other clutch facings and linings	No	60,327	30,813
Brake linings for automotive use	Lb	536,798	413,302
Other brake linings	Lb	255,203	192,399
			$ 2,524,577

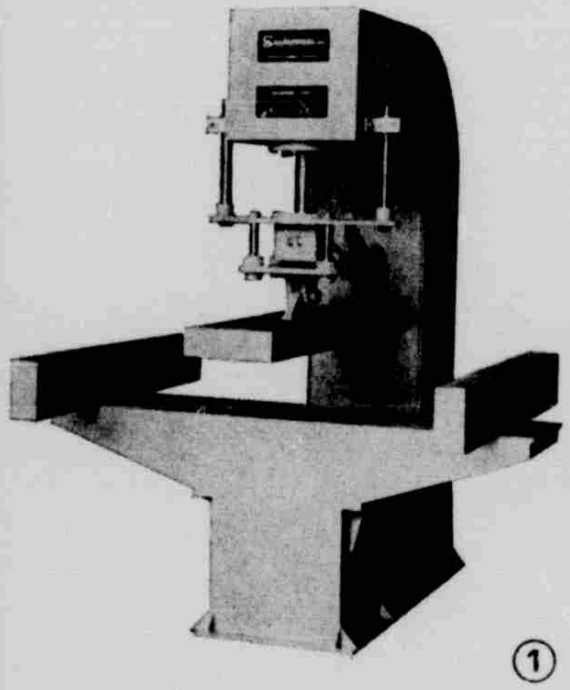
Unmanufactured Asbestos:		**JANUARY-JUNE 1972**	
Fibers not further processed than beaten, washed or graded to length	s.tons	12,317	$ 1,899,991
Waste and refuse	s.tons	13,818	1,807,502
		26,135	$ 3,707,493
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	11,261,262	$ 1,199,023
Other a-c or fiber-cement articles	Lb	3,120,939	465,904
Gaskets	Lb	279,555	551,558
Packing	Lb	2,338,244	3,229,043
Heat or sound insulation		..	914,199
Textiles and yarns	Lb	8,985,142	2,043,594
Protective clothing		..	96,757
Mfrs. other than friction materials		..	2,029,105
Cl. facings and linings for auto. use	No	1,089,710	920,360
Other clutch facings and linings	No	577,981	271,950
Brake linings for automotive use	Lb	3,380,562	2,431,879
Other brake linings	Lb	1,494,316	1,193,741
			$15,347,123

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① Bending and crushing test press for sheet and pipes



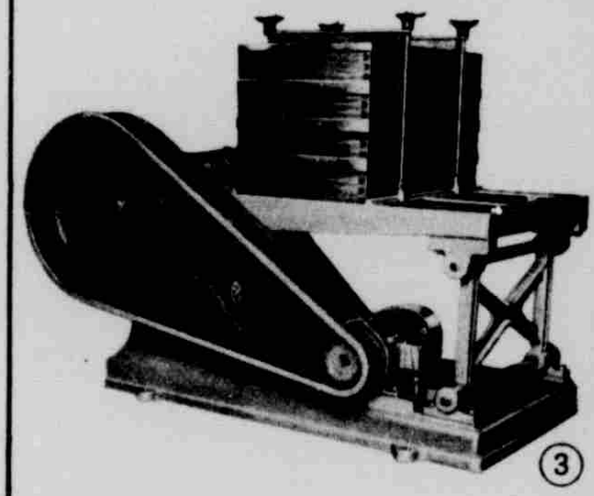
②



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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EXPORTS FROM CANADA

Figures from Statistics Canada

JUNE 1972

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	977	23,136	12,132
Eastern Europe	..	..	275	..
Middle East	..	..	950	30
Africa	..	..	195	28
Asia	..	813	6,235	5,839
Oceania	..	..	4,675	1,614
So. & Cen. America & Antilles	..	120	3,485	1,191
United States	14	1,609	15,018	55,572
	14	3,519	53,969	76,406

The total amount of unmanufactured asbestos exported in *June 1972* was 133,908 short tons, valued at $18,500,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 111,000
Asbestos-cement building materials	237,000
Other basic products	240,000
	$ 588,000

JANUARY-JUNE 1972

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	13	4,939	99,883	63,568
Eastern Europe	..	50	14,977	396
Middle East	..	40	9,875	2,284
Africa	..	..	3,591	1,219
Asia	5	1,778	37,666	45,433
Oceania	..	37	22,500	5,403
So. & Cen. America & Antilles	..	319	30,664	13,411
United States	15	7,802	101,593	261,353
	33	14,965	320,749	393,067

The total amount of unmanufactured asbestos exported in *January-June 1972* was 728,814 short tons, valued at $103,089,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 356,000
Asbestos-cement building materials	1,192,000
Other basic products	1,301,000
	$ 2,849,000

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From
SCAPA
TEXTILES
LTD.

100% Synthetic needled felts for Magnani Sheet Machines

This new development offers.

MUCH INCREASED FELT LIFE

MUCH IMPROVED FELT STABILITY
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AND WIDTH SPLITTING

MUCH IMPROVED PERMEABILITY



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Part 22: Outlook/Asbestos in Plastics

The forecast base for the year 2000 was determined by use of the forecast growth rate for the U.S. Gross National Product.

Plastic materials can be reinforced with a variety of fibers including asbestos, glass and cotton. Short asbestos fibers are used in the manufacture of such items as plastic handles on cooking utensils and long fibers are used to reinforce plastic rocket nose cones. Asbestos phenolic materials are used in aerospace applications. Glass fibers have some superior properties and processing characteristics and are often competitive with asbestos fibers as a reinforcing agent for plastics. However, asbestos often provides a better combination of heat and corrosion resistance and high strength and stiffness, and at a lower cost. Asbestos and glass fibers are not always competitive but in numerous applications they complement each other. For example, some epoxy pipe wound with high-strength glass fiber contains an asbestos-phenolic liner to provide broad chemical resistance. Asbestos also can be used in combination with other reinforcing materials, such as sisal, to produce economic moldings with improved impact strength and reduced water absorption. Automobile heater ducting, fan shrouds and instrument panel components are typical of the many products produced from phenolics reinforced with asbestos and sisal fibers.

Use of asbestos as a reinforcing material for plastics is becoming more significant. However, the base projection of 28,000 tons is not expected to increase importantly unless more use of asbestos is made as a reinforcing agent to join various automobile body parts and in phenolic materials for aerospace applications. A modest increase of 2,000 tons per year was added to the forecast base for this contingency. No factors are foreseen which appear likely to reduce the demand below the forecast base in the year 2000.

Part 23: Outlook/Other Uses for Asbestos

On the basis of past performance, it is likely that new uses for asbestos will be forthcoming and the forecast base of 165,000 tons in 2000 was obtained by direct correlation with the projected growth for GNP. With low-cost short fibered asbestos available in large quantities from domestic sources, there should be a significant impact on the mineral filler market for a wide range of end products, particularly in products that must withstand high temperatures or corrosive conditions. The high side of the forecast range was obtained by adding an increment of 35,000 tons to the forecast base to provide for possible significant increases in filler demand. No developments are anticipated that would cause demand to decrease below the forecast base.

NEXT CHAPTER—SUPPLY & FUTURE SUPPLY-DEMAND RELATIONSHIPS

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CAPE ASBESTOS

The World's Biggest Producer of Amphibole Asbestos

Enquiries for Amosite and Blue Crocidolite Fibre to:-

Cape Asbestos Fibres Limited,
Iver Lane,
Cowley, Uxbridge,
Middlesex, England.
Telephone: Uxbridge 37111
Telegrams: Amoblue-Uxbridge
Telex: 23471/ UXB

North American Asbestos Corporation,
Suite 2950,
150 North Wacker Drive,
Chicago, Illinois 60606,
U.S.A.
Telephone: (312) 726 8515
Telegrams: Noramco Chicago

BRAZILIAN ASBESTOS

Brazil produced an estimated 20,000 metric tons of asbestos fiber in 1971 of which 85% came from the Cana Brava deposit at Uruacu, Goias, operated by S.A. Mineracao de Amianto. According to the company, its 1972 output may reach 27,000 tons with an estimated total for Brazil of 30,000 tons. Even this marked increase in productivity from the Cana Brava operation is insufficient to supply domestic demand and there is no indication of any change in the consumption trend that might presuppose self-sufficiency for Brazil by the end of 1972.

NEW AMOSITE GRADE FROM PENGE

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 subsidiary of The Cape Asbestos Co. Ltd. S11 is a multi-purpose fiber suitable for the manufacture of both thermal insulation materials and insulation boards. It has a reinforcement value intermediate between a 4 and 5 Group Canadian Chrysotile and can be used as the Amosite component in asbestos-cement pressure pipe formulations based on 40% Amphiboles and 60% Chrysotiles.

PATHFINDER HOLDS VALUABLE DEPOSIT

Pathfinder Resources Ltd. received the results of a bulk sample milling test of asbestos-bearing material from the main "B" zone of its slip-fiber Chrysotile property in Cleveland Township, Quebec. The sample indicated a recovered value of $6.02 per ton, with the rock containing 6.88% of recoverable asbestos fiber. According to Surveyor, Nenninger & Chenevert, the consultants conducting the study, concentration of values by simple crushing and screening will produce a mill feed consisting of 50.94% of the crusher feed containing 12% of recoverable fiber having a value of $10.96 per ton. [Northern Miner]

WOODSREEF COMBATS PROBLEMS

Production at Woodsreef Mines Ltd., Barraba, N.S.W., Australia, was adversely affected during the second quarter of the year by an unusual number of mechanical failures, but the problems have been overcome. Production at the mill was 5,242 tons of fiber, bringing the total produced since the mill was commissioned in February 1972 to 6,943 tons. The project is based on proven ore reserves of 27 million tons containing an average grade of 4½% fiber and potential ore reserves of 60 million tons. The mining/milling operation was designed to annually produce some 70,000 tons of fiber from 1.5 million tons of ore. The property is operated by Chrysotile Corporation of Australia Pty Ltd., a wholly-owned subsidiary of Woodsreef which is actually an offshoot of Pacific Asbestos Ltd., of Canada.

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LATEST ASBESTOS PRICES

ARIZONA

PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA

(AS OF AUGUST 1, 1968)

	U.S. DOLLARS
No. 1 Crude	$1410.00 — $1650.00
No. 2 Crude	700.00 — 950.00
AAA	.. 800.00
Group No. 3 (Non-Ferrous Filtering-Plastic)	425.00 — 700.00
Group No. 4 (Non-Ferrous Filtering-Plastic)	400.00 — 500.00
Group No. 5 (Non-Ferrous Filtering-Plastic)	385.00 — 425.00
Group No. 6 (Non-Ferrous Plastic)	.. 250.00
Group No. 7 (White Shorts)	65.00 — 90.00

CANADA

PER TON OF 2000 LBS., F.O.B. MINE

(AS OF JULY 1, 1971)

	CANADIAN CURRENCY
Crude No. 1	$ .. $1615.00
Crude No. 2	.. 875.00
No. 3 (Spinning Fiber)	412.00 — 675.00
No. 4 (Asbestos-Cement Fiber)	227.00 — 383.00
No. 5 (Paper Fiber)	164.00 — 195.00
No. 6 (Paper & Shingle Fiber)	.. 120.00
No. 7 (Shorts)	52.00 — 100.00

CASSIAR

PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

(AS OF JANUARY 1, 1971)

	CANADIAN CURRENCY
AAA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	$ 877.00
AA Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	697.00
A Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	529.00
AC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
CC Grade (Non-Ferrous Spinning Fiber/Canadian Gp 3)	380.00
AK Grade (Asbestos Cement Fiber/Canadian Gp 4)	263.00
CP Grade (Asbestos Cement Fiber/Canadian Gp 4)	248.00
AS Grade (Asbestos Cement Fiber/Canadian Gp 4)	228.00
CT Grade (Asbestos Cement Fiber/Canadian Gp 4)	223.00
AX Grade (Asbestos Cement Fiber/Canadian Gp 5)	208.00
CY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00
AY Grade (Asbestos Cement Fiber/Canadian Gp 5)	147.00

VERMONT

PER TON OF 2000 LBS., F.O.B. MORRISVILLE, VERMONT

(AS OF JANUARY 3, 1972)

	U.S. DOLLARS
Grades 3T & 3Z (Fiber)	$ 400.00—$ 428.00
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BIRTHDAY GREETINGS TO . . .

Morris J. Baty, Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, December 15.

Faustin J. Solon, Jr., Vice President-Corporate Relations, Johns-Manville Corporation, Denver, Colorado, December 18.

D. E. Hillier, Director of Environmental Engineering, Johns-Manville Corporation, Denver, Colorado, December 19.

George J. Pecaro, Chairman of the Board, The Flintkote Company, White Plains, New York, December 20.

Harry C. Redstone, Executive Vice President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.

Leland M. White, Departmental Vice President-Research, Uniroyal, Inc., New York City, December 21.

James H. Binns, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 23.

Donald G. Hamme, Director of Research, Research Center, National Gypsum Company, Tonawanda, New York, December 24.

J. E. Hesse, Vice President-Production & Engineering, Johns-Manville Corporation, Denver, Colorado, December 25.

J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.

Kenneth H. Ross, Manager of Public Relations, Certain-teed Products Corporation, Valley Forge, Pennsylvania, December 27.

M. J. Warnock, Chairman of the Board, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.

F. P. Parkes, Director, The Cape Asbestos Co. Ltd., London, England, December 29.

W. Lyall, Mill Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, December 30.

Robert G. Lillibridge, Director of Research and Engineering Planning-Panacon, Philip Carey Co., Cincinnati, Ohio, December 31.

Bernard H. Wuennemann, Vice President-Controller, Philip Carey Company, Cincinnati, Ohio, December 31.

John E. Burke, President & General Manager, Sturtevant Mill Co., Dorchester, Massachusetts, January 1.

John L. Cole, Works Manager, Wunderlich Ltd., Sunshine, Victoria, Australia, January 1.

C. R. Harris, Project Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, January 1.

Noel W. Hendry, General Sales Manager, Canadian Johns-Manville Asbestos Ltd., Asbestos, Quebec, January 2.

Octave Mousseau, Vice President & Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, January 3.

Edmund M. Fenner, Director-Environmental Control, Johns-Manville Corporation, Denver, Colorado, January 4.

Lawrence B. Row, Corporate Director of Management Services, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, January 7.

Charles E. Tennesson, Jr., President & Chief Executive Officer, Panacon Corporation, Cincinnati, Ohio, January 8.

Alexander Smith, General Sales Manager-Asbestos, Thermoid Division, H. K. Porter Co., Inc., Charlotte, North Carolina, January 13.

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ASBESTOS STOCK QUOTATIONS

CLOSE—OCTOBER 17, 1972

Abitibi Asbestos	*$2.20
Advocate Mines	*$1.40
Allied Mining	*$3.00
Asarco	17¾
Armstrong Cork	34¾
Armst Cork (pfd 3.75)	55½
Asbestos Corporation	*$19.50
Bendix	43¼
Bendix (pfd 3)	66¾
Carlisle	20¼
Cassiar Asbestos	*$13.00
Cerro Corporation	13¾
Certain-teed Products	20
C-teed (pfd .90)	42¼
Charter Consolidated	**256
Conwest	*$6.00
Flintkote	23¾
F-kote (pfd-A 4.50)	71
F-kote (pfd-B 2.25)	35⅝
Freeport Minerals	21⅛
GAF Corporation	20
GAF (pfd 1.20)	26⅛
Garlock	18
Grace	24¾
Gulf & Western	33
G&W (when traded)	10⅛
G&W (pfd 1.75)	109¾
G&W (pfd 3.50)	138
G&W (pfd 3.87)	66
G&W (pfd 5.75)	73
Illinois Central	27⅝
Ill. Central (pfd-A 6)	123
Ill. Central (pfd 3.50)	52½
Jim Walter Corporation	27¼
Jim Walter (pfd 1.60)	31¾
Jim Walter (pfd 1)	13
Johns-Manville	28½
Kennecott Copper	22¼
Maremont	40⅜
McAdam Mining	*$.47
National Gypsum	16⅜
Pathfinder	*$.90
Porter (pfd 5.50)	82½
Raybestos-Manhattan	26¼
Rio Algom	*19.50
Royal Industries	10⅝
Unarco	11⅛
Union Carbide	43
Uniroyal	15½
Uniroyal (pfd 8)	102
United Asbestos	3½

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

TRADE/INVESTMENT OPPORTUNITIES

Businessmen desiring assistance with any phase of their foreign investment program should contact the nearest U.S. Department of Commerce Field Office or the Foreign Investment Services Division, Office of International Investment, U.S. Department of Commerce, BIC-878, Washington, D.C. 20230 (telephone: (202) 976-4065).

Thailand—operator of three tire retreading plants proposes joint venture or licensing agreement to establish plant for manufacture of automobile brake linings. [The Ben Trading Co. Ltd., 57-171 Super Highway, Dindaeng, Bangkok 4]

Thailand—importer-distributor seeking agency agreement re gaskets, paper and asbestos fiber paper, packed in roll. [Dhonburi Glory (1959) Ltd., Part., 910 King Taksin Road, G.P.O. Box 2545, Bangkok]

Thailand—importer-manufacturer interested in direct sale of asbestos pipe insulation. [Sathask-Driam (Thailand) Co. Ltd., 93 Mansion 10, Rajdamnern Avenue, Bangkok 2]

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BOOKS & BOOKLETS

Mining Annual Review 1972—reviews progress during the year of worldwide mining industry; a brief chapter on asbestos relates to the international monetary situation, markets, health and pollution control and outlook. [$10.50; from The Mining Journal Ltd., London, England, or through ASBESTOS]

Asbestos in Canada 1971—concerned with production, markets and trade, applications, mine development, environmental health, and outlook. [Written bilingually in English and French; Quebec Asbestos Mining Association, 5 Place Ville Marie, Montreal 113, Quebec]

Statistical Summary of the Mineral Industry—prepared by Mineral Resources Division of the Institute of Geological Sciences; contains tables of world figures, broken down by country, of mineral production, exports and imports; includes data for asbestos. [£1.80; Her Majesty's Stationery Office, London, England]

Canadian Mines Handbook 1972-73—details important developments in the Canadian mining industry; includes list of property holdings and developments of some 4000 Canadian mining companies. [$8.00 per paper copy; $10.00 for deluxe leatherette or hard-cover binding with name embossed in gold on the cover; place orders through ASBESTOS or with Northern Miner Press Ltd., Toronto, Ontario.]

Cement and Mortar Additives 1972—274-page book by L. F. Martin; chapters on Cement Additives and on Foamed Products refer to alkanolamines in asbestos-cement mixtures, asbestos fiber treatment and asbestos reinforced composites. [$36.00; order through ASBESTOS or from Noyes Data Corporation, Park Ridge, New Jersey]

U.S. TECHNICAL DOCUMENTS

The following are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22151. Cost per paper copy is designated at the end of each listing. Microfiche reproduction is priced at 95c per document. Prepayment is required. Please specify Report Number when ordering.

PB 209 751—Environmental Research Laboratories in the Federal Government, An Inventory, Volume I, by A. H. Teich et al. [$6.00]

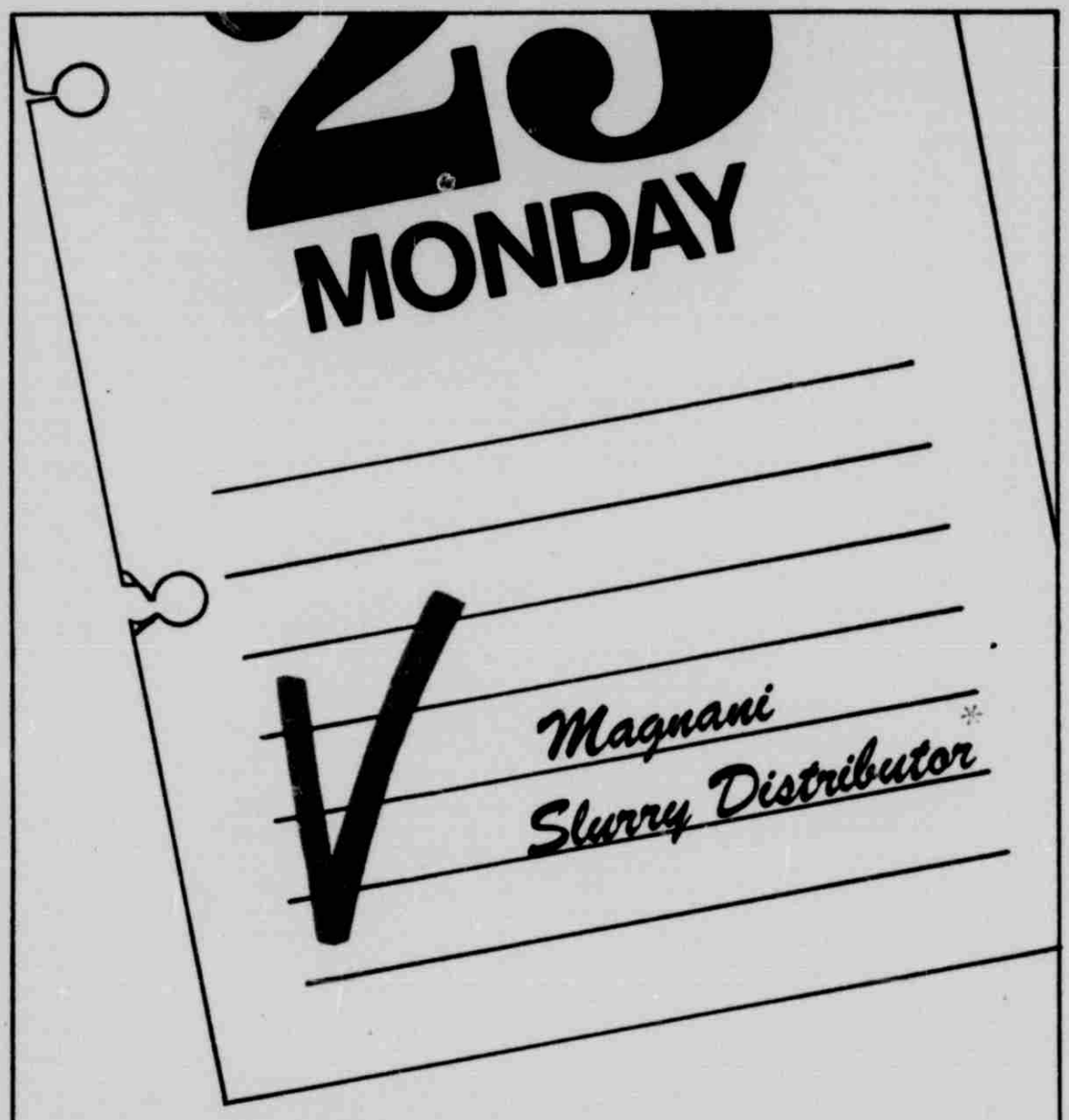
PB 209 752—Same Title, Volume II. [$6.00]

PB 210 304—Literature Survey of the Field of Fiber Reinforced Plastic Composites, Part I, by S. W. Beckwith, et al; includes references to asbestos. [$3.00]

PB 210 305—Same Title, Part II; includes references to asbestos. [$3.00]

PB 210 561—Systems Analysis Study for Research and Development of Respiratory Devices, by R. B. Bartlett, et al. [$9.00]

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NEW ASBESTOS PATENTS

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

British 1,272,566—High-temperature clutch plates or brake linings are formed from a mixture of optimum proportions of a dry phenolic novolak or resole resin, anhydrous boric oxide, asbestos and other conventional fillers, curing agents, etc.; K. D. Jeffreys; assigned to BP Chemicals (U.K.) Ltd., May 3, 1972; 3 pages.

British 1,272,761—To minimize or prevent formation of harmful dusts during handling, asbestos cloth, tape, yarn, rope or other asbestos product is treated with a solution containing glycerol and borax or other boron compound, excess solution squeezed out and the product dried; G. F. Heron & H. Stretton; assigned to Turner Bros. Asbestos Co. Ltd., May 3, 1972; 3 pages.

British 1,274,454—An exothermic composition for lining ingot or foundry molds in which small castings are formed comprises optimum proportions of sized aluminum powder, Chrysotile or Amosite asbestos, manganese dioxide, wood flour, powdered phenolic resin, fluorspar, cryolite and a refractory filler; assigned to Doittau Produits Metallurgic, May 17, 1972; 3 pages.

British 1,274,695—A composition for forming high-density thermal insulation slabs for use in thermal storage heaters consists of asbestos, micronized barite, bentonite and, optionally, expanded perlite; W. J. S. Benns & R. H. Luxton; assigned to Cape Insulation Ltd., May 17, 1972; 3 pages.

British 1,276,264—Low-cost yet fade-resistant brake linings are formed from a mixture of optimum proportions of Chrysotile asbestos, coal or coke dust, ground rubber, copper or bronze chips or powder and a polybutadiene having a molecular weight of at least 2500 and in which at least 80% of the butadiene repeating units are in the 1,2-configuration; assigned to Firestone Tire & Rubber Co., June 1, 1972; 6 pages.

Russian 294,292—In the production of a powder for extinguishing burning electrical installations under an electric potential, a mixture of ammonium sulfate and/or ammonium phosphate, asbestos flour, a formaldehyde cresol resin, tricalcium phosphate and magnesium stearate is pulverized in a rod mill and then dried; H. M. Schreiber; April 22, 1971; 2 pages.

U.S. 3,660,120—A composition for forming brake linings or clutch facings consists of asbestos, a metal sulfide binder formed in-situ by

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the reaction of sulfur with iron powder and other necessary fillers, antioxidants, metal powders and friction modifiers; E. Clark & R. A. Summerling; assigned to Ferodo Ltd., May 2, 1972; 3 pages.

U.S. 3,660,121—In an exothermic ring-and-liner hot top combination, the liner comprises 7-10% by weight of asbestos, 7-12% of wood flour, 41-51% of sand, 26-32% of silica flour and 5-8% of a resin binder, while the refractory ring consists of 4.5-5.5% of a low-water asbestos, 4.5-5.5% of a high-water asbestos, 84-87% of sand and 4.5-6% of a resin binder; J. F. McCarthy; assigned to Susquehanna Corporation, May 2, 1972; 4 pages.

U.S. 3,660,122—In an exothermic ring-and-liner hot top combination, the liner consists of 4-6% by weight each of a low-water and high-water asbestos, 65-75% of sand, 12-16% of silica flour and 3-6% of a resin binder, while the ring comprises 6-9% of asbestos, 87-90% of sand and 3-4.5% of a resin binder; J. F. McCarthy; assigned to Susquehanna Corporation, May 2, 1972; 4 pages.

U.S. 3,660,135—A highly reactive exothermic mold lining which can be formed by filtration consists of 35-60% by weight of fire clay or silica sand, 3-7% of asbestos, 4-10% of wood flour, 11-21% of manganese dioxide, 0.5-7% of cryolite, 0.5-6% of fluorspar, 4-7% of a binder and 10-32% of a mixture of fine and coarse aluminum powder; H. Nouveau; assigned to Doittau Produits Metallurgie, May 2, 1972; 3 pages.

U.S. 3,660,148—To reduce or eliminate dusting during handling and use, asbestos cloth is impregnated with an aqueous emulsion of film-forming polymeric particles and excess water removed from the impregnated cloth; G. F. Heron; assigned to Turner Bros. Asbestos Co. Ltd., May 2, 1972; 6 pages.

U.S. 3,661,603—In the manufacture of lightweight asbestos board, Chrysotile is blended with water, a small percentage of a cement and a sequestering agent and anionic surfactant, the foamed material formed into shapes and the shapes cured; J. P. Nicol; assigned to Asbestos Corporation Ltd., May 9, 1972; 13 pages.

U.S. 3,663,250—In the production of water-insensitive insulating shapes, at least 75% by weight of asbestos is mixed with sodium silicate of optimum alkali-silica ratio, the damp mass compacted and the compacts cured under conditions that produce in-situ a crystalline silicate bond; S. A. Gerow & V. W. Wiedman; assigned to E. I. duPont de Nemours & Co., May 16, 1972; 6 pages.

U.S. 3,668,119—In the production of fully defiberized asbestos, Chrysotile of the Coalinga type is sheared in a slurry, the solution dewatered and the asbestos dried and ground to obtain a product having excellent thickening properties for use in lacquers, dyes, etc.; D. Bauer & H. Fratzscher; assigned to Deutsche Gold -und Silber-Scheideanstalt Vormals Roessler, June 6, 1972; 7 pages.

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CALENDAR OF EVENTS

8th Canadian Symposium on Rock Mechanics—organized by The Mining Association of Canada; Toronto, Ontario; *November 30-December 1.*

Seminar on the Problems of Investing in Developing Countries—sponsored by the Practicing Law Institute; Beverly Hilton Hotel, Los Angeles, California; *December 1-2.*

ASTM Committee Weeks—The American Society for Testing and Materials has scheduled mid-year meetings during December at New Orleans, Williamsburg and Mexico City. Among the Committees that will meet at the Jung Hotel in New Orleans are D-4 on Road and Paving Materials, *3-6;* E-5 on Fire Tests of Materials and Construction, *4-6;* and E-17 on Skid Resistance, *7-8.* Two of the Committees to convene at the Maria Isabel-Sheraton Hotel in Mexico City are C-3 on Chemical-Resistant Nonmetallic Materials, *13-15;* and C-17 on Asbestos-Cement Products, *12-14.*

1st International Pollution Engineering Congress and Exposition produced by Clapp & Poliak, Inc.; Cleveland Convention Center, Cleveland, Ohio; *December 4-7.*

Pollution Control Equipment Exhibition—Stockholm Trade Center, Stockholm, Sweden; *December 4-9.*

Transportation Systems for Bulk Solids—a seminar-workshop at The University of Pittsburgh, School of Engineering, Pittsburgh, Pennsylvania; *December 6-7.*

Continuing Education Programs—held by the University of Wisconsin-Extension during December (on the Milwaukee campus unless otherwise noted): Simulation Techniques in Industry, *7-8;* Modern Drafting Principles, *7-8;* Consumer Product Liability, *12-13;* Underground Pipe Installation (Madison), *12-13.*

National Remodelers Association—51st Annual convention and trade show; Americana Hotel, Miami Beach, Florida; *January 18-20.*

Finite Element Method in Structural Analysis and Use of Computers as Problem Solvers—4th annual short course; the University of Missouri-Rolla, Extension Division, Rolla, Missouri; January *22-26.*

Industrial, Scientific, and Test and Measuring Instruments Exhibition—U.S. Regional Trade Development Center, Bangkok, Thailand; *January 29-February 2.*

National Roofing Contractors Association—86th annual convention and trade show; Town and Country Hotel, San Diego, California; *February 5-9.*

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Remember When?

(November 1922 ASBESTOS)

The lead article in this issue described the manufacture and use of Asbestos Protected Metal as produced by the H. H. Robertson Company of Pittsburgh, Pennsylvania. . . . On November 2, 1922, H. H. Robertson Co. announced the appointment of Johns-Manville, Inc., as joint selling agents for Asbestos Protected Metal. It was intended that J-M would supply Robertson with the asbestos saturated felts used in manufacturing the end product.

The death of Major-General Sir John W. Carson, former President and Managing Director of Consolidated Asbestos Ltd., Montreal, was reported. Sir John had an illustrious record of 31 years of military service and while he was active in the Asbestos Industry for only one year, his influence in the Industry had been keenly felt.

The emergence of the United States from the severe recession of the early 1920's was indicated by some interesting statistics. Building construction during the first nine months of 1922 totaled $3 billion compared to the previous record of $2 billion in 1920. July 1922 broke all records for monthly production of gasoline—over 560.7 million gallons—an increase of 44 million gallons over that reported for the previous month.

The arrival in New York on October 17 of Sir Samuel Turner of Turner Brothers, Rochdale, England, was noted.

Next Issue . . . The Year in Review

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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

Strangely enough, they don't seem to have had a single all-embracing word for 'one of the leading producers of asbestos textiles in the world who know their subject inside out and who are ready at the drop of a hint to advise on any aspect of asbestos in any of its many applications'.

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STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Act of August 12, 1970; Section 3685, Title 39, United States Code)

1. Title of Publication: ASBESTOS. 2. Date of Filing: October 1972. 3. Frequency of Issue: Monthly. 4. Location of Known Office of Publication: 131 North York Road, Willow Grove, Pennsylvania 19090. 5. Location of the Headquarters or General Business Offices of the Publishers: 131 North York Road, Willow Grove, Pa. 19090. 6. Names and Addresses of Publisher, Editor and Managing Editor: Publisher, Stover Publishing Co., 131 North York Road, Willow Grove, Pa. 19090; Editor and Managing Editor, D. M. Fagan, 407 Winner Road, Hatboro, Pa. 19040. 7. Owner: Trust of C. J. Stover, Foxcroft Square Apts., Jenkintown, Pa. 19046. 8. Not Applicable. 9. 39 U.S.C. 3626 provides in pertinent part: "No person who would have been entitled to mail matter under former Section 4359 of this title shall mail such matter at the rates provided under this subsection unless he files annually with the Postal Service a written request for permission to mail matter at such rates." In accordance with the provisions of this statute, I hereby request permission to mail the publication named in Item 1 at the reduced postage rates presently authorized by 39 U.S.C. 3626: signed, D. M. Fagan, Editor.

10. Not Applicable. 11. Extent and Nature of Circulation: Average No. Copies Each Issue During Preceding 12 Months—A. Total No. Copies Printed 1500; B. Paid Circulation, (1) Not Applicable; (2) Mail Subscriptions, 862; C. Total Paid Circulation, 862; D. Free Distribution by Mail, Carrier or Other Means, (1) Samples, Complimentary and Other Free Copies, 251; (2) Not Applicable; E. Total Distribution (Sum of C and D), 1113; F. Office Use, Left Over, Unaccounted, Spoiled After Printing, 387; G. Total (Sum of E and F—should equal net press run shown in A), 1500. Actual Number of Copies of Single Issue Published Nearest to Filing Date—A. Total No. Copies Printed, 1500; B. Paid Circulation, (1) Not Applicable, (2) Mail Subscriptions, 969; C. Total Paid Circulation, 969; D. Free Distribution by Mail, Carrier or Other Means, (1) Samples, Complimentary and Other Free Copies, 254; (2) Not Applicable; E. Total Distribution (Sum of C and D), 1223; F. Office Use, Left Over, Unaccounted, Spoiled After Printing, 277; G. Total (Sum of E and F—should equal net press run shown in A), 1500.

I certify that the statements made by me above are correct and complete: signed, D. M. Fagan, Editor.

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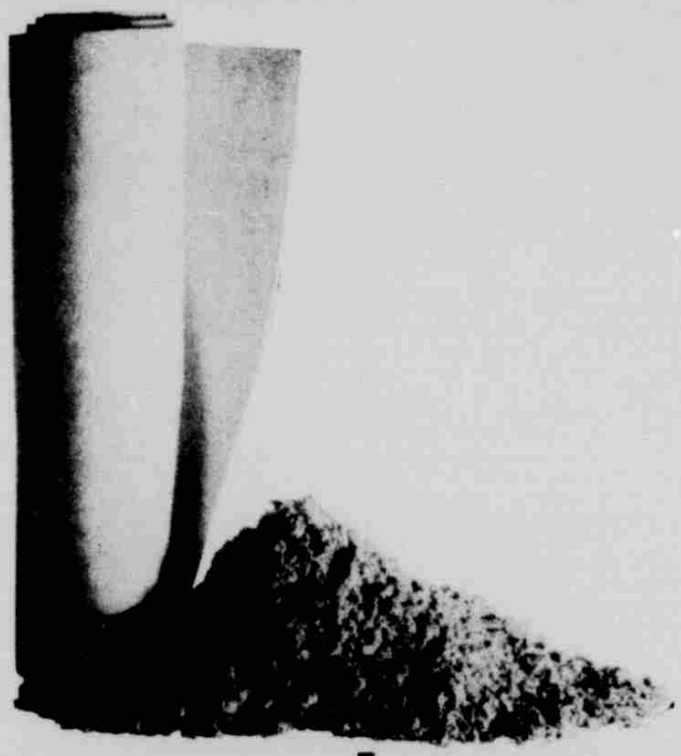
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Chicago, Chicago Firebrick Co.
Cleveland, Donald McKay Smith, Inc.
Dallas, Thompson-Hayward Chem. Co.
Davenport, Iowa,
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Denver, Plateau Supply Co.
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Minneapolis, Thompson-Hayward Chem. Co.
Mobile, Thompson-Hayward Chem. Co.
Montgomery, Ala.,
Thompson-Hayward Chem. Co.
Nashville, Thompson-Hayward Chem. Co.
New Orleans,
Thompson-Hayward Chem. Co.
Oklahoma City,
Thompson-Hayward Chem. Co.
Omaha, Thompson-Hayward Chem. Co.
Philadelphia, George A. Rowley & Co., Inc.
Pittsburgh, McCann-Shields Paint Co.
Portland, Durkin Chemicals, Inc.
Seattle, Durkin Chemicals, Inc.
Shreveport, Thompson-Hayward Chem. Co.
St. Louis, Thompson-Hayward Chem. Co.
San Francisco, E. S. Browning Co.
Tampa, Thompson-Hayward Chem. Co.
Trenton, N. J., H. M. Royal, Inc.
Tulsa, Thompson-Hayward Chem. Co.
Wichita, Thompson-Hayward Chem. Co.
Winchester, Mass., W. D. Egleston Co., Inc.

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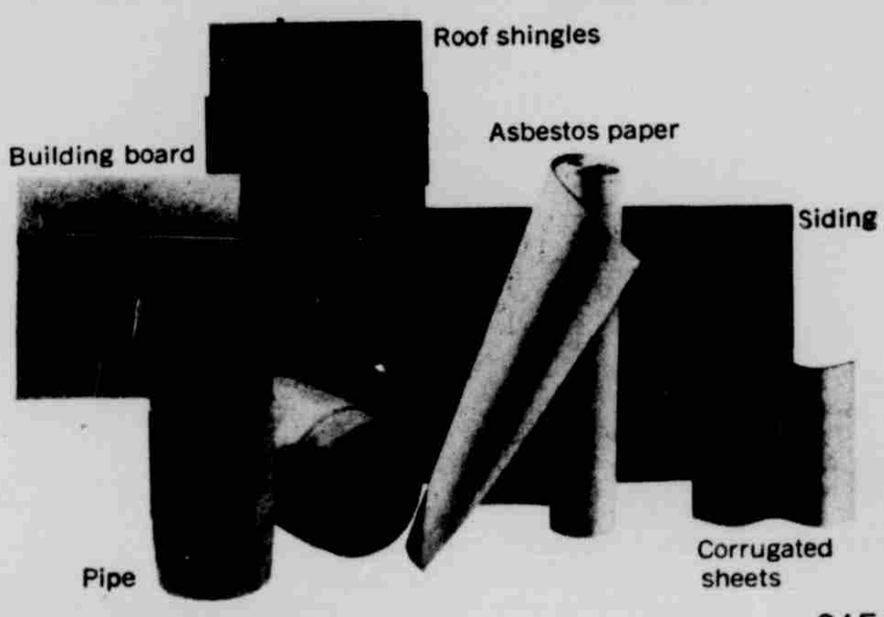
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