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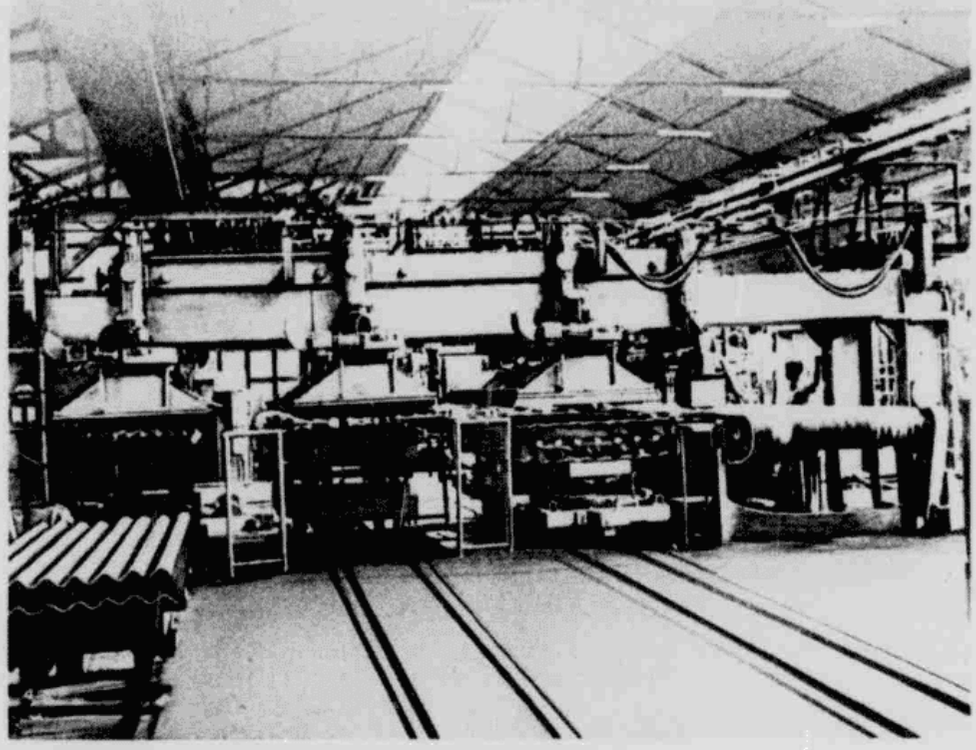
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ASBESTOS

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PROCESSING/MATERIALS HANDLING UP-DATE

BLACK-CLAWSON SCREEN RECOVERS ASBESTOS

Until the last few years, *Black Clawson, Inc.*, Everett, Washington, formerly Sumner Iron Works, specialized in machinery for the wood products industry. Recently, however, the privately-held company has expanded its markets and services by applying existing conventional wood-handling technology in some new areas. One example is the combination of a fine-meshed screen, normally used for wood chip screening, together with Black Clawson's relatively new success, the Centri aggregate rock crusher, to form an unusual and unexplored system of asbestos fiber recovery. The impact-type Centri crusher was selected to extract asbestos fiber from reject material that an asbestos plant in California had previously slated for landfill. Black Clawson engineers found that after the Centri processing, the freed fibers "fluffed up" and could be collected by the screen. Markets for this new use have been identified in Canada, northeastern United States and Europe.

C-E BAUER DIVERSIFIES

C-E Bauer, an operating unit of the *Process Equipment Group of Combustion Engineering, Inc.*, Springfield, Ohio, and Brantford, Ontario, is modernizing its foundry at Springfield and reaching out for new business. When the facility began production in 1957 most of its ouput was aimed at supplying precision components for C-E Bauer equipment. Cones for Centri-Cleaner® liquid cyclones and plates for pulp refiners and attrition mills were the key products. Today the value of the foundry has been enhanced by the installation of Hunter automated, high-capacity matchplate molding; Harris shell molding systems; sophisticated laboratory test equipment; and other quality control apparatus, including a Quantometric Analyzer. The 60,000-square-foot production center for alloy white iron castings now can supply castings for many industries, in addition to meeting the needs of C-E Bauer.

A relatively new addition to the C-E Bauer line of Centri-Cleaner liquid cyclones is the Bauerlite™ Helical Roof Model 606-H, designed specifically for removing or recovering solids below 40 microns in size from slurries, processing fluids or effluent. The helical roof concept of the 17-pound cyclone reduces internal pressure at the inlet, promoting increased capacity with less operating pressure and at no sacrifice in separating capability. Injection molded of high-strength, glass-reinforced nylon, the cy-

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clones can be used at operating temperatures to 190F. In sewage and wastewater treatment plants and pollution control systems the units are used to remove particles of glass, metal and dirt from recovered fiber in solid waste recycling systems, and to de-grit sludge ahead of expensive centrifuges, pumps and other equipment. Among a variety of other uses are cleaning asbestos slurries, scrubber water clarification and removing usable fibers from textile mill slurries.

TRI-CO SPEED SCREENS

A new line of high-speed vibrating screens for use in gradation and separation of granular materials is being offered by *TRI-CO Engineering and Manufacturing Company*, Minneapolis, Minnesota. The Speed Screens feature combined end tensioning of recommended long-slot screen cloth used on all decks of the screen, a combination which causes the tensioned wires to vibrate in harmony to prevent build-up of fines and sticky material on screen cloth wires. The equipment features the E-Z Change screen deck design, enabling 15-minute screen cloth changes on any deck without removing the screen cloth from any other deck.

MATERIAL FLOW PROBLEMS SOLVED

A 13-page paper from *Solids Flow Corporation*, West Caldwell, New Jersey, discusses the causes and effects of material flow problems and offers solutions based on a combination of theoretical and practical experience. It illustrates the specifications and applications of the firm's patented Live Bottom Feeder, makes basic observations of material flow characteristics and bin-hopper design and offers solutions for smooth flow via the Siletta Feeder principle.

SIMPLICITY EQUIPMENT & SERVICES

An informative brochure from *Simplicity Engineering Company*, Durand, Michigan, a subsidiary of *General Steel Industries, Inc.*, traces Simplicity's history and the development of the vibrating screen, widely used for sizing, washing, dewatering, degreasing and sifting operations. Included in the literature is a description of Simplicity's principal products and information on its Custom Fabricating Division, Research and Development Center and Distribution and Marketing Service.

A new line of natural frequency vibrating conveyors, said to

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achieve highly-efficient material transfer with energy-saving, low-power drive requirements, has been introduced by Simplicity Engineering. The conveyor design consists of a coil spring/rocker arm support system. Springs, mounted on an angle, are uniformly spaced over conveyor length. A low-horsepower eccentric drive system starts spring cycling and supplies the nominal force needed to overcome frictional losses. Most of the energy needed to generate efficient vibrating action is alternately stored and released by the springs. Since each spring is, in effect, a driving medium, the driving force is distributed over the entire length of the conveyor. Reciprocal action of the pan surface develops positive, gentle conveying movement.

SPROUT-WALDRON DISK PELLETIZERS

A series of disk pelletizers which prepare material for further processing, recycling or disposal has been added to the diverse line of agglomeration equipment manufactured by the *Sprout-Waldron Division of Koppers Company, Inc.*, Muncy, Pennsylvania. Pellets in the general range of 1/64" to over 1" in diameter are produced by continuous rolling and tumbling of fine materials moistened by a fine liquid spray. Slope of the pelletizer pan, speed of its rotation and location of the feed inlet and spray nozzles are variables which influence pellet size. The disk pelletizer is available in 13 models, with disk diameters ranging from 16" to 25' and depths from 3½" to 29 15/16". Horsepower requirements are ¼ to 200. Capacity ranges, based on material weighing 80 pounds per cubic foot, are 0.4 to 95.6 tons per hour.

MONITORS FROM LEEDS & NORTHRUP

Leeds & Northrup Company, North Wales, Pennsylvania, has begun deliveries of the newest member of its MICROTRAC™ Particle-Size Analysis instruments—the MICROTRAC Monitor for dry powder processes. Designed to provide continuous, on-line measurement of particle size in dry-powder streams, the machine is especially suited to monitoring dry grinding processes such as cement and is being evaluated as the primary element in automatic control of grinding mill-classifier loops in such processes. It is connected to the process by air-operated aspirators fed from either a continuous or periodic extractor in the process line. The aspirated stream is fed directly through the instrument where it is illumi-

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nated by a laser beam. The scattered signal is optically filtered and detected and processed instantly in the instrument's microprocessor, producing the size distribution data needed for control and/or monitoring.

Recently Leeds & Northrup introduced the MICROTRAC Suspended-Solids Monitor as a totally new instrument for automated, continuous monitoring of suspended solids in a liquid stream. Designed for process and waste treatment applications, the monitor uses proven laser and optics technology to provide an accurate, on-line analog of the standard laboratory gravimetric analysis. The measurement is linear and independent of the size distribution or color of the sample and is a true volumetric concentration. It eliminates most of the familiar problems of turbidimeters, including sensitivity to particle size, response nonlinearities, color interference and time-consuming and undependable calibration.

PENNBOX STRETCH WRAPPER & PALLET/SHIPPER

The Pennbox Division of Pennsylvania Pacific Corporation, Warminster, Pennsylvania, introduced a line of stretch wrap machines for stabilizing pallet loads. Manufactured by *International Packaging Machines Company,* the equipment comes either with a wide web for pallet loads of consistent height or as a spiral wrap for pallet loads of varying heights. The wide web model can handle up to 9000-pound loads. Both machines are available with conventional-height turntable for shippers using forklift trucks, or with a low profile turntable for those using hand-operated jacks.

Also available from Pennsylvania Pacific is a combination Pick-A-Pac™ pallet/shipper consisting of heavy-duty slave pallet with expendable shipper module. The two-piece modular design allows the costlier bottom slave pallet to remain in-plant, eliminating the need to return an expensive piece of equipment. Forklift entry from the front lifts the entire pallet/shipper, while side entry lifts only the shipper section.

U.S. RAILWAY HOPPER RAILCARS

Six-page foldout brochures detailing their full line of covered and open-top hopper railcars are available from *United States Railway Equipment Company and United States Railway Leasing Company,* Des Plaines, Illinois, *affiliates of Evans Products Com-*

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pany. Text and photographs describe individual applications and discuss USRE/USRL capabilities for meeting shipper and railroad industry requirements with a variety of purchase, leasing and maintenance plans. The three basic covered car sizes are a 3000-cubic-foot car for high-density products; a 4780-cubic-foot car for medium-density commodities; and a 5750-cubic-foot car for low-density materials. The four basic open-top car sizes are a 3600-cubic-foot conventional quad hopper with eight hopper doors; a 3600-cubic-foot automatic discharge quad hopper with 16 electro-pneumatically-actuated hopper doors for fast unloading; a 4000-cubic-foot triple hopper with shaker bar integrated into the top chord; and a 4000-cubic-foot, high-side, rotary-dump gondola reinforced at car ends, side sills and top chords for extra clamping strength.

DEVCON EPOXY REPAIRS METAL

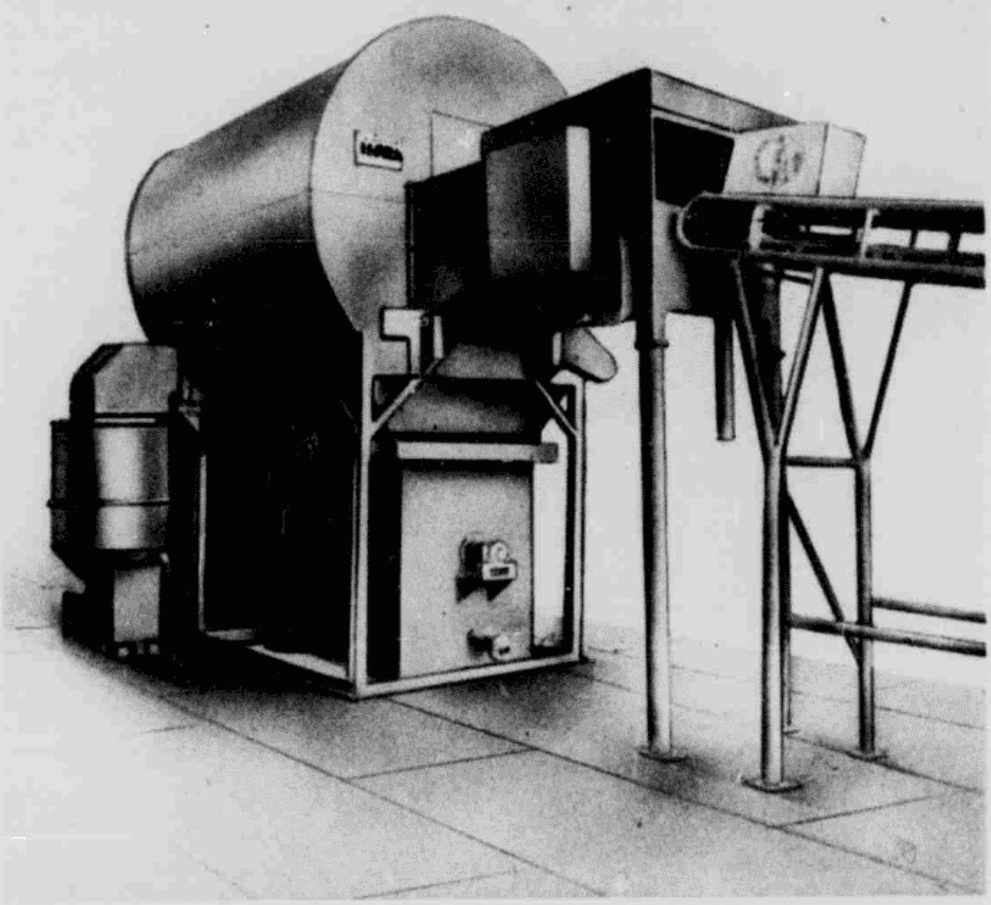
Damaged metal parts, castings and equipment can be repaired in-plant or on-site without being welded by using Plastic Steel®, the steel-filled epoxy made by *Devcon Corporation,* Danvers, Massachusetts. Available in liquid or putty form, the material is a two-component compound which hardens through chemical reaction and can be used to fill cracks and holes or to unite metal sections. It will bond to itself or to iron, steel, aluminum and most other metals and will cure to a durable, metallic material that can be drilled, tapped or ground with regular metalworking equipment. Easily applied with a putty knife or trowel, the epoxy does not require heat, pressure or special tools and is packaged in 1, 4 and 25 pound units. It has a temperature resistance of 250F, a cure shrinkage of 0.05% and a shear strength of 2400 psi.

RUNG VULCANIZER REPAIRS BELTS

Porta-Patcher, a lightweight portable vulcanizer, patches to the center of a 60″ wide belt of almost any type. The belt can be repaired in position, without removing idlers. Rapid heat-up from zero to 350F and a fast cool-down cycle through cooling coils built into the platens reduce repair time to a few hours. The 12″ square aluminum platens, which are electrically heated and thermostatically controlled, apply up to 70 psi of pressure on the belt, provided by hand-operated hydraulic pump and ram which produce pressure to 10,000 pounds. Further information is obtainable from *D. G. Rung Industries, Inc.,* Seattle, Washington.

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It eliminates all possibilites of dust in the environment.

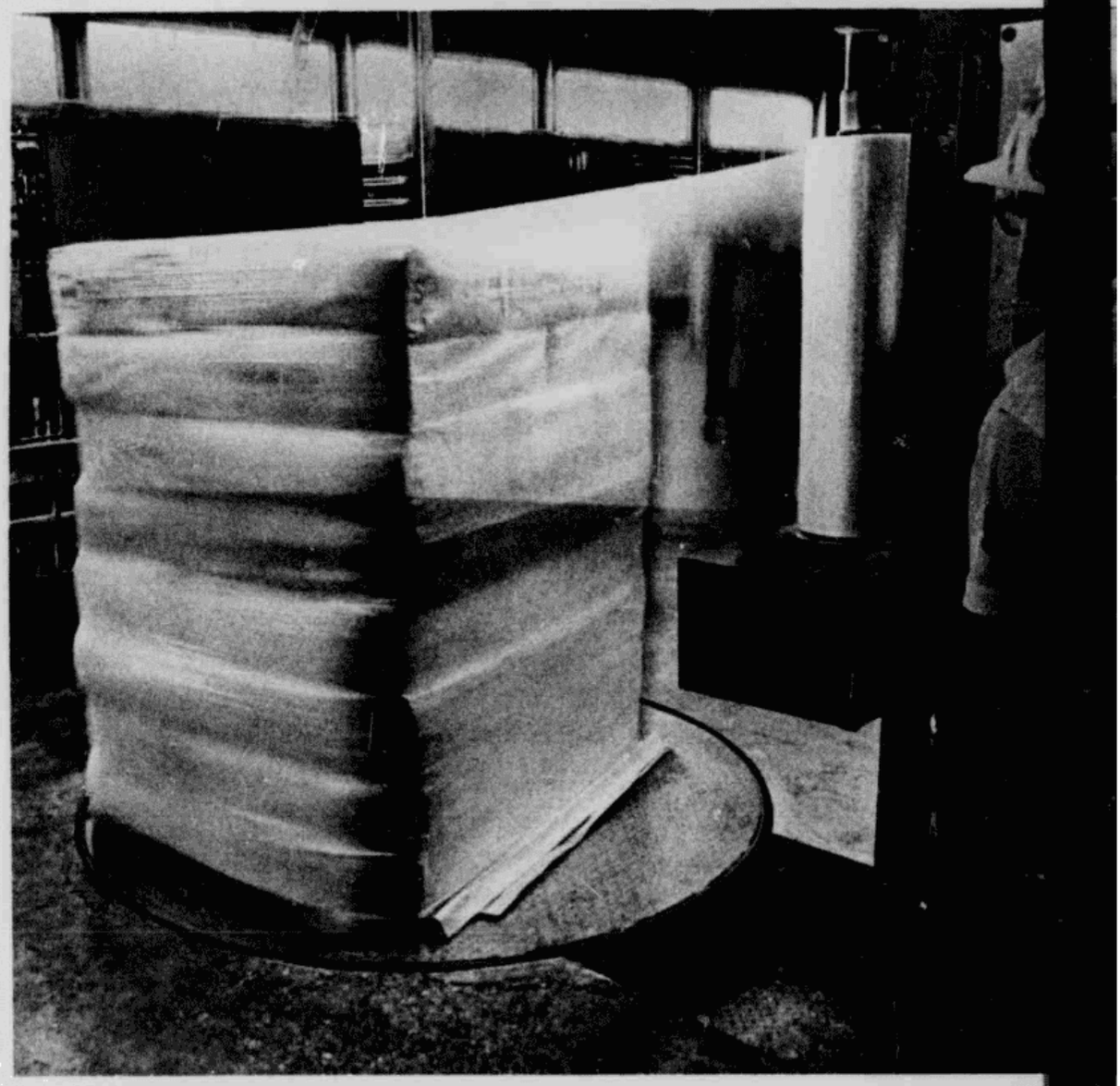
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Stretch protects against and related



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wrapping broken bags dust problems.



Lake Asbestos now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

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Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of Lake Asbestos' concern for its customers and the environment. For details contact Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

LAKE ASBESTOS

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FOR & ABOUT COMPANIES

ISO/TC77 REPORT

The *15th Plenary Meeting of ISO/TC77—Products in Fiber Reinforced Cement* was held in May in Washington, D. C. As reported by T. R. Gillen, Chairman of USA TAG ISO/TC77, about 75 delegates attended the session, representing 24 nations. The event was hosted by the American National Standards Institute and Committee C-17 of the American Society for Testing and Materials and was sponsored by the Association of Asbestos Cement Pipe Producers and Johns-Manville Sales Corporation. In addition to various progress reports, the Study Group on Methods of Test for Asbestos Fibers formed a Working Group to develop a Draft Standard for Test Methods for Asbestos Fibers. Another Study Group was established to research the implications arising from the development of fiber-reinforced cement alternatives to asbestos cement. The existing Working Group on Pressure Pipe and Sewerage Pipes for Drainage was given the responsibility of studying a proposal to prepare a Guide for Hydraulic Calculations for Asbestos-Cement Water and Sewer Pipe. Proposals were adopted to prepare a Draft Recommended Practice for Asbestos-Cement Products and to study aggressive soils and water. . . . The *16th Plenary Meeting* will be held in Yugoslavia in 1980.

CAPE PRODUCTS

Roofs for the buildings at the new distribution depot of Gliksten Hardwoods Ltd., at Parkend, in the Forest of Dean, England, are composed of Standard Six asbestos-cement sheets and fitments in Greycoat machine-sprayed baked acrylic finish, supplied by *Cape Universal Claddings Ltd.* The roofing product was specified because its color matched the slate roofs of the local homes and because the 54mm-deep profile was appropriate for the large-scale timber storage shed. . . . UK Marinite, from *Cape Boards and Panels Ltd.*, was used for the unusual three-dimensional, fire-resisting suspended ceilings of the new town hall for the Royal Borough of Kensington and Chelsea, opened early this year by Princess Anne. The product is a monolithic building board sufficiently stable to accept timber, plastic or metal laminates without deformation, even under conditions of high humidity and wide temperature change. . . . *Don International Ltd.* concluded a ten-year technical cooperative agreement which could be worth £75-million. The pact is the culmination of two years of negotiations between delegates of Don, VSZM (a Hungarian friction

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materials manufacturer), Intercooperation A.G. (a Hungarian State Organization), the Foreign Trade Bank of Hungary and MOGURT (a Hungarian State Company which handles all imports and exports related to the nation's motor industry). The agreement covers complete know-how for all Don formulations for commercial vehicles and all subsequent developments of friction materials for the commercial vehicle industry.

NEWS FROM TURNER & NEWALL

Turner & Newall Ltd. has published a 24-page, full-color corporate brochure for use by investors, industry and employees. The literature documents the change in the balance of T&N's interests and describes the divisional structure of the worldwide operations of the Group, i.e., the plastics and industrial materials, automotive components, chemicals, construction materials and asbestos mining and distribution divisions. . . . It was agreed in principle that Turner & Newall should acquire 80% of the equity of *Harlequin Wallcoverings Ltd.*, a leading distributor in the United Kingdom of high-style wallcoverings. The company also internationally markets its own collection of vinyl wallcoverings made exclusively for it by *Storey Brothers & Co. Ltd.*, a firm acquired last year by T&N.

QAMA RESEARCH STUDY

The *Quebec Asbestos Mining Association* has commissioned the *Center of Technological Development, Ecole Polytechnique,* Montreal, to study the feasibility of developing asbestos research in Quebec. Purpose of the project is to accelerate the process of developing such research in the Province by making the best possible use of the most viable economic conditions as well as available human, material and technological resources. Results of the project are to be reported in four months and are to include financing data and operational procedures.

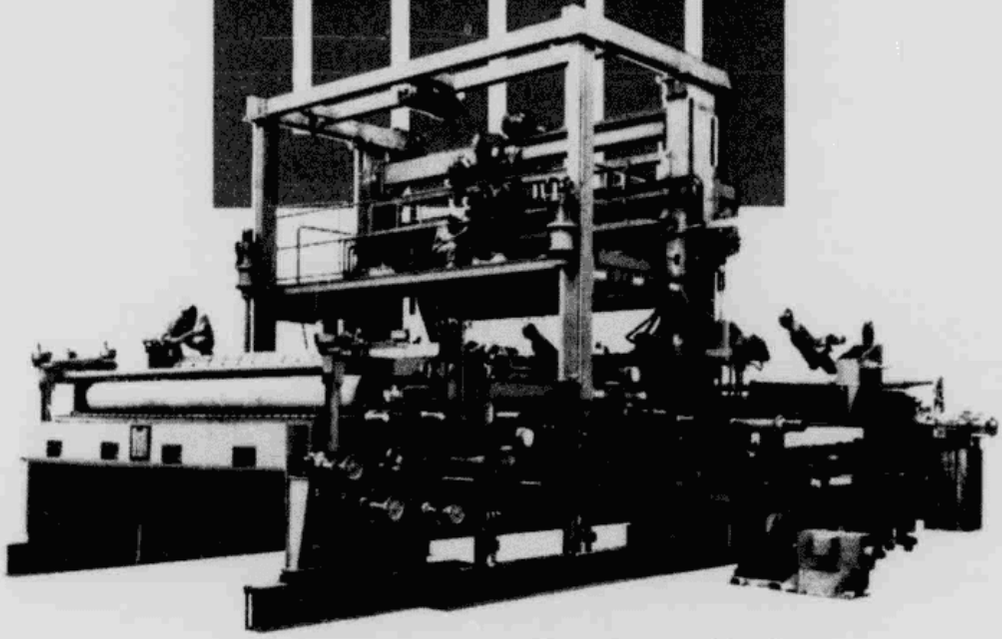
GERMAN FIRM SEEKS TO EXPAND

Frankfurter Aussenhandel GmbH, Frankfurt/Main, West Germany, is interested in representing U.S. companies whose products fit into its sales program in West Germany, Switzerland and Austria. The company is a producer of asbestos-, glass- and mineral-wool-based plastics, heat shields for hot-press manufacturers, rotor plates for pumps, and bushings for the machine industry.

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Asbestos Cement Machines

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▲5 m-pipe machine for pipe outside diameter up to 2500 mm

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Asbestos board machines

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MARKET CONDITIONS

GENERAL BUSINESS

Despite evidences of a slackening of activity in June, the second quarter, as a whole, was healthy and profitable for most businesses. Gross National Product grew at a 7.4% annual rate in the quarter, resulting in a 3.4% annualized growth rate for the first half year which was about on target with predictions. However, in view of present trends, it seems probable that growth for the full year will be somewhat below the 4.1% previously targeted by the administration.

After a decline in May, housing starts surprised the experts by rebounding in June to a yearly rate of over 2-million while permits for new housing rose 13% over the May figure. Consumer buying continues strong but some economists anticipate an early slowdown since sales of some items such as automobiles have been exceptionally strong for an abnormally extended period. There is some reason to wonder how much of this buying is due to consumers' simplistic efforts to hedge against the inflation they have come to expect as a normal fact of life. Personal income rose in June at a 0.9% annual rate and unemployment dropped sharply and unexpectedly below the 6% level.

Against this generally favorable background, inflation has continued to push higher, recording an annualized rate of 10% during the second quarter, the worst reading in 3 years. The Federal Reserve Board's actions are resulting in sustained upward pressure on interest rates but it is rapidly becoming apparent that such pressures alone will not control inflation. So long as wage increases exceed improvements in productivity and Government, through heavy-handed, costly regulation and excessive taxation to support a substantially non-productive bureaucracy, keeps increasing the cost burdens on industry, the consumer will be forced to pay the costs in the increased prices of everything he buys.

The problem has been building over several decades and it won't be solved overnight. Neither will it be solved by talking at it or about it. Its solution requires firm, politically-unpopular action based on a well-conceived long-range plan. In the absence of any substantial number of politicians who either understand the problem or who have the fortitude to do the politically unpopular, our ability to reverse the present destructive trend remains in serious doubt.

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HOUSING & CONSTRUCTION

JUNE 1978—The value of contracts in June for new construction decreased 14% from a year ago and totaled $14.2-billion. The seasonally-adjusted Dodge Index of total construction contract value (1967 = 100) was 249, down from the record 332 set in May and a decrease from the 279 recorded in April. . . . Contracts for *nonresidential* building, at $3.8-billion, were up 28% from last June. Although institutional building was only 2% above the year-ago amount, contracting for factories, offices and shopping centers during the first half of 1978 surpassed last year's total over 50%. . . . *Residential* building contracts posted a 28% year-to-year gain, reaching $7.7-billion; slightly above the value set in May, suggesting that residential expansion may be cresting at a high level. . . . *Nonbuilding* construction, at $2.7-billion, showed a steep 64% decline. The total value of contracts for new electric utility construction in the first half of 1978 was less than half the year-ago amount.

FIRST HALF 1978—Total construction contract value was $77.1-billion in the first half of 1978, 11% ahead of the same period in 1977. The breakdown, by category, is $20.7-billion for non-residential building, up 33%; $36.3-billion for residential building, up 25%; $20.1-billion for nonbuilding construction, down 18%. [F. W. Dodge Div., McGraw-Hill Information Systems Co.]

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DUST/POLLUTION CONTROL NEWS

DCE VOKES POLLUTION CONTROL SYSTEMS

Cased and Insertable Dalamatic pulse jet, fabric filter dust collectors are described by *DCE Vokes Inc.*, Jeffersontown, Kentucky, in a revised brochure entitled "Dalamatic-Automation in Dust Control." The modular design of the Cased Dalamatic allows stacking of cells, either vertically in tiers or horizontally in banks, to complete units which can handle from 1000 to over 100,000 cfm. Insertable Dalamatics are designed to be inserted directly into pneumatic and belt conveying systems and silos. Both collectors are highly compact and feature automatic reverse jet cleaning for continuous operation. The insertable filters were originally designed to deal with the heavy dust burdens and high filtration velocities encountered in pneumatic conveying systems handling particulate products. The range of cased filters is based on a single cell size each consisting of a seal frame and ten filter envelopes with a total fabric area of about 105 square feet. Among the several pictorial illustrations in the literature are the installation of the Dalamatic unit for collecting asbestos dust at board-cutting operations and ten DLM-V Type H filters horizontally inserted around the top of a silo at an asbestos plant. DCE Vokes is a wholly-owned subsidiary of DCE Vokes Group Ltd., a foremost dust control equipment company in Europe.

KIEKENS DUST EXTRACTOR

The C1570-Super, an industrial vacuum cleaner, is a product of *Machinefabriek Kiekens B.V.*, Amsterdam, the Netherlands, a member of the Internatio-Muller Group. Marketed throughout Europe and now ready for export, the machine has a built-in metal pre-separator which achieves about 80% efficiency. Remaining finer dust particles are separated in a star-shaped filter with a filter area of 5.55 m^2, resulting in low specific filter load and eliminating the need for after-filters. According to the company, industries using the vacuum cleaner include shipyards, glass works, power stations and manufacturers of insulation materials, batteries and metal thread. The machine has also been applied as a central vacuum cleaning unit for the extraction of grinding and polishing dust created when using handtools. In addition, it can be used in conjunction with a pneumatic conveyor system for filling mixers and bunkers.

Also introduced by Kiekens is the B192-A industrial vacuum cleaner. Featuring special hoods, the machine was developed to

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remove the dust created during the repair of automobile and truck brakes. A high quality absolute filter is mounted on the machine outlet to achieve maximum filtration.

BEL-TYNE BAG SLITTER

BEL-TYNE Co. Ltd., Stockport, England, has developed a fully-automatic bag-slitting machine, capable of opening bags containing all types and grades of pressure and non-pressure packed asbestos. Both the opening of the bags and the dispensing of their content plus disposal of the discarded bag halves are executed in a completely enclosed system on a continuous basis, thereby speeding the bag emptying operation and reducing, to a minimum, the operator's exposure to asbestos. The machine automatically adjusts to accept bags of different sizes and from any position and splits the bags lengthwise to ensure maximum material discharge. Incorporated within the compacting unit is a unique design feature which permits any residue adhering to the discarded bag halves to return to the central material chute—while being compacted. The system can handle all bag materials and throughput can be up to ten bags per minute, depending on material flowability.

ASBESTOS FILTER FROM SHOP-VAC

Shop-Vac Corporation, Williamsport, Pennsylvania, developed a disposable filter which has a built-in safety feature to prevent the operator from inhaling asbestos and other airborne particles. A totally enclosed filter and collection system, the filter is attached directly to the side inlet fitting on the inside of the Shop-Vac vacuum cleaner to entrap the asbestos, dirt and other fine dust particles which would otherwise enter the atmosphere. Model 801-25 is available as a kit containing two asbestos filters and one respirator. This advance in vacuum cleaner technology plus Shop-Vac's complete line of automotive vacuums and attachments are described in the company's recently-published Automotive Products Catalog 91.

GRIFFIN FILTER VENTS

Griffin Environmental Co., Baldwinsville, New York, issued a 12-page brochure to describe its various types of pollution control systems, i.e., silo and weigh batcher filter vents and overfill control systems. The vents are available in several models and sizes, with

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ASBESTOS SECTION

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cloth areas from 18 to 500 square feet. They not only control dust pollution but also reclaim valuable materials. The overfill control system completely automates silo filling and venting, preventing overfill and resulting damage. It is designed to operate on any pneumatic filling system with any number of fill pipes and silo filter vent collectors.

HENDRICK FILTRATION TECHNIQUE

A high efficiency, self-cleaning industrial dust collection system is available from *Hendrick Manufacturing Corporation*, Marblehead, Massachusetts. The UMA 154 G5 Model is a fabric filter dust collector that removes a minimum of 99.5% of dry particles as small as one micron. Cleaned air is subsequently recirculated without heat loss. To eliminate dust seal problems, the method uses a one-piece, multi-pocket filter held rigidly in the air stream by a special comb, permitting full filter utilization and facilitating cleaning. When turned off, the system automatically shakes the filter clean. With a capacity of 1600 cfm at 6″ SPWG, the Hendrick unit provides a filtration area of 150 square feet.

FARR EQUIPMENT CLEANS AIR

Equipment operators working in exceptionally dust-laden conditions will find important performance data in its Specification Bulletin on the Ultra Heavy Duty Air Cleaner, Model 100, according to *Farr Company*, Los Angeles, California. The machine is actually a three-stage unit which contains a primary filter that is over 99% effective in S.A.E. standardized fine dust tests and that delivers 2000 to 6000 hours, or more, between change-outs. Air flow resistance is low and servicing is minimal—and utilizing its equipment, says the company, provides protection from dirt which could ruin a costly engine, disrupt a production schedule or shut down an entire operation.

DeTER SUPPRESSES DUST

DeTer Company, East Hanover, New Jersey, developer and marketer of DeTer Pressure Foam® Systems, has announced that its new Model 5700 dust suppression unit can suppress more dust particles in terms of tons per hour than previous models. A mixture of water, air and a foaming agent resembling shaving cream, the foam actually consists of tiny bubbles which break on contact with dust particles, preventing their release into the air.

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ASBESTOS RESPIRATOR



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ENVIRONMENTAL POLLUTION/CONTROL REPORTS

[ORDERS FOR THE FOLLOWING SHOULD BE PLACED WITH: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL ROAD, SPRINGFIELD, VIRGINIA 22161; INCLUDE PAYMENT WITH ORDER, IN U.S. FUNDS.]

ASBESTOS: A SUBTLE CARCINOGEN IN THE DENTAL LABORATORY/ SEM AND MICRO-PROBE STUDY—Army Institute of Dental Research, AD-AO45 027/OWP, $4.00.

ASBESTOS AND SILICATE POLLUTION—Citations from the NTIS Data Base, National Technical Information Service, NTIS/PS-77/1075/9WP, $25.00; Citations from the Engineering Index Data Base, NTIS/PS-77/1076/7WP, $25.00.

ASBESTOS: A PERSPECTIVE—I. An Overview, II. An Annotated Literature Collection 1960-1974, III. A Literature Compilation 1974-1977, Toxicology Information Response Center, ORNL-TIRC-77-5, $28.00.

DEVELOPMENT DOCUMENT FOR EFFLUENT LIMITATIONS GUIDELINES AND NEW SOURCE PERFORMANCE STANDARDS FOR THE TEXTILE, FRICTION MATERIALS AND SEALING DEVICES SEGMENT OF THE ASBESTOS MANUFACTURING POINT SOURCE CATEGORY—Environmental Protection Agency, PB-240 860/7WP, $6.00.

IDENTIFICATION AND ASSESSMENT OF ASBESTOS EMISSIONS FROM INCIDENTAL SOURCES OF ASBESTOS—Battelle Columbus Laboratories, PB-241 999/2WP, $12.00.

EVALUATION OF THE EFFECT OF ASBESTOS IN INDUSTRIAL CONDITIONS (OTSENKA VOZDEISTVIYA ASBESTA V USLOVIYAKH PROIZVODSTVENNOI SREDY—EPA Translation Services Section, PB-259 700-T/WP, $4.00.

ASBESTOS FIBERS IN NATURAL RUNOFF AND DISCHARGES FROM SOURCES MANUFACTURING ASBESTOS PRODUCTS, PART II/NON POINT SOURCES AND POINT SOURCES MANUFACTURING ASBESTOS PRODUCTS—McCrone Associates, Inc., PB-263 746, $7.25.

ASBESTOS FIBERS IN DISCHARGES FROM SELECTED MINING AND MILLING ACTIVITIES, PART III—McCrone Associates, Inc., PB-264 288/2WP, $4.50.

ASBESTOS IN POTABLE WATER—Illinois University, PB-265 389/7WP, $6.00.

EVALUATION OF ELECTRON MICROSCOPY FOR PROCESS CONTROL IN THE ASBESTOS INDUSTRY—Aerospace Corporation, PB-266 091/8WP, $5.25.

X-RAY ANALYSIS OF AIRBORNE ASBESTOS, INTERIM REPORT, SAMPLE PREPARATION—Naval Research Laboratory, PB-266 671/7WP, $4.50.

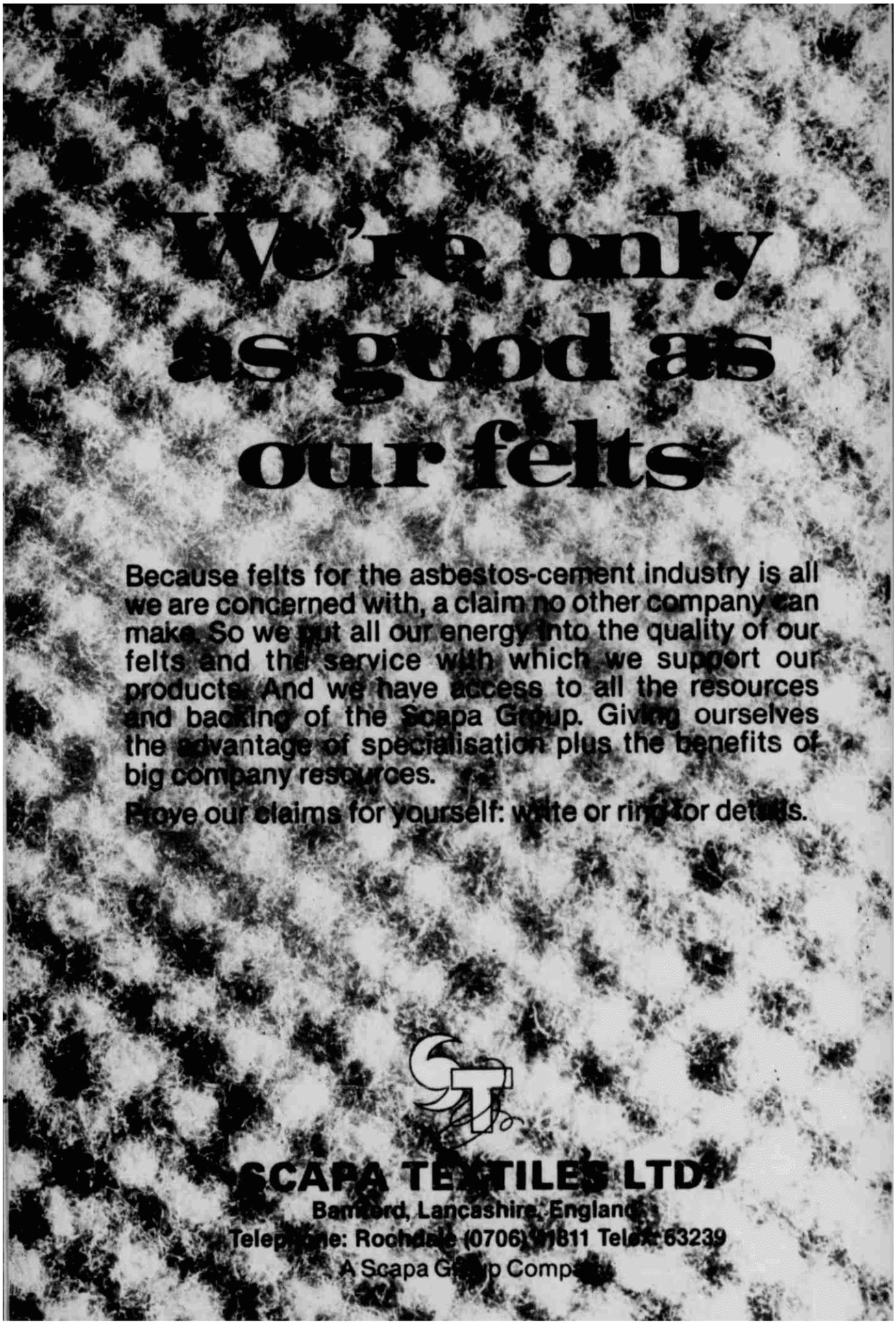
MOVEMENT OF SELECTED METALS, ASBESTOS AND CYANIDE IN SOIL: APPLICATIONS TO WASTE DISPOSAL PROBLEMS—Arizona University, PB-266 905/9WP, $10.75.

FIELD TESTING OF EMISSION CONTROLS FOR ASBESTOS MANUFACTURING WASTE PILES—IIT Research Institute, PB-270 081/3WP, $7.25.

PARTICULATE FILTER RESEARCH RECOMMENDATIONS—Arthur D. Little, Inc., PB-276 374/6WP, $4.50.

ELECTRON MICROSCOPE MEASUREMENT OF AIRBORNE ASBESTOS CONCENTRATIONS/A PROVISIONAL METHODOLOGY MANUAL—IIT Research Institute, PB-276 481/9WP, $5.25.

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PRODUCTION—IMPORTS—EXPORTS

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 115,941 short tons in *May 1978* compared with 129,691 tons for the fifth month of 1977. The cumulative total for *January-May 1978* was 562,131 tons: 479,210 tons from Quebec plants and 82,921 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first five months of 1977 was 662,855 tons: 531,286 tons from plants in Quebec and 131,569 tons from plants in the other four Provinces. . . . Beginning January 1978, these figures include concentrate shipped from Asbestos Hill. [Statistics Canada]

CANADIAN PRODUCT IMPORTS

Canada imported C$5,646,000 worth of asbestos-containing products in *January-March 1978* compared with $5,343,000 in the like 1977 quarter. A breakdown for the latest three months is: vinyl-asbestos floor and wall tiles—$85,000 (51,845 square yards); asbestos cloth, dryer felts and sheets—$755,000; asbestos packing—$468,000 (251,327 pounds); asbestos brake linings—$1,038,000; asbestos clutch facings—$309,000; asbestos-cement shingles and siding—$25,000; asbestos-cement boards and sheets—$173,000; other asbestos building materials—$1,825,000; other basic asbestos products—$968,000. . . . Imports of unmanufactured asbestos totaled 72 tons valued at $59,000 in the three months to March 1978 compared with 1647 tons valued at $298,000 for the same quarter a year earlier. In the latest quarter, 5 tons valued at $2000 were imported from South Africa and 67 tons valued at $57,000 were imported from the United States. [Statistics Canada]

CYPRUS FIBER PRODUCTION

Production of asbestos in Cyprus for *January-March 1978* reached 4907 short tons valued at £637,763 compared with 7,091 tons valued at £841,275 for the comparable 1977 quarter. Output and values for prior first quarters were 5281 tons valued at £480,570 to March 1976; 5965 tons valued at £441,400 to March 1975 and 3538 tons valued at £210,510 to March 1974. [Cyprus Mines Department]

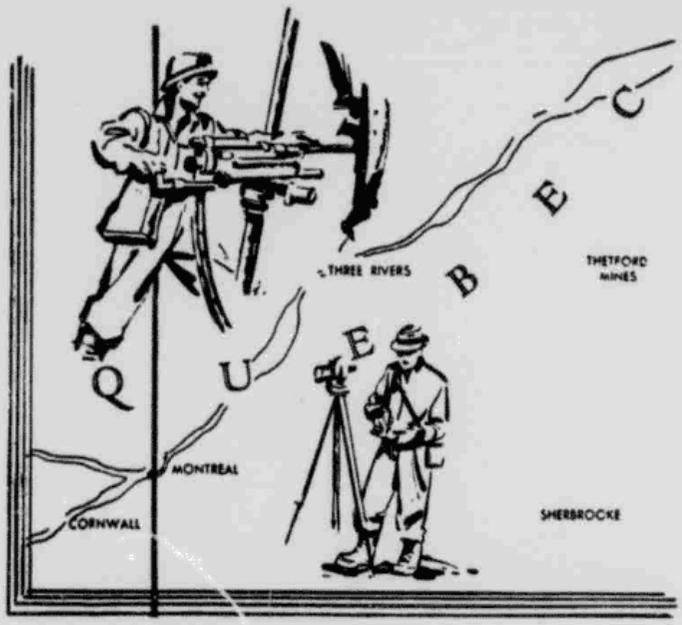
PHILIPPINE IMPORTS & EXPORTS

The Republic of the Philippines *imported* 4,285,907 net kilograms (nk) of asbestos fiber in the *Year 1977*, valued at P$1,903,014. The breakdown by country of origin is 2,303,900 nk from Canada, 809,990 nk from Australia, 691,374 nk from the United States and 480,643 nk from Other Countries.

The value of asbestos-containing products *imported* from the Republic in the *Year 1977* was $5,535,012. Quantities are categorized as follows: *Asbestos Building Board*—30,020 nk valued at $6955 (29,000 nk to Japan

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and 1020 nk to Other Countries); *Asbestos Textile Fiber, Yarn & Fabric*—134,453 nk valued at $281,442 (52,592 nk to Japan and 81,861 nk to Other Countries); *Asbestos Gloves*—3341 pairs valued at $11,273 (3334 pairs to the United States and 7 pairs to the United Kingdom); *Asbestos Protective Clothing*—1584 pieces valued at $36,347 (1020 pieces to Japan and 564 pieces to Other Countries); *Friction Materials*—293,716 nk valued at $968,332 (118,943 nk to the United States and 174,773 nk to Other Countries); *Asbestos Pipe Covering*—91,285 nk valued at $66,267 (72,735 nk to Japan and 18,550 nk to the United States); *Asbestos Packing & Gaskets*—350,305 nk valued at $1,285,695 (158,939 nk to the United States, 148,704 nk to Japan and 42,662 nk to Other Countries); *Vinyl-Asbestos Tile*—340,026 sc valued at $315,975 (202,244 sc to Japan and 137,782 sc to the United States; *Other Asbestos Products*—761,508 gross kilograms (gk) valued at $659,712 (171,272 gk to Japan, 113,541 gk to the United States and 76,695 gk to Other Countries).

Philippine *exports* of asbestos-containing products in the *Year 1977* were valued at $180,666. The quantities are as follows: *Asbestos Packings & Gaskets*—48 nk to New Zealand and Western Samoa; *Shingles & Roofing*—73,013 nk to Oman; *Vinyl-Asbestos Tile*—12,637 sc to Singapore; *Friction Materials*—50,800 nk to Japan and 35,264 nk to Other Countries. [Philippine National Census and Statistics Office]

U.S. ASBESTOS END-USE DISTRIBUTION

In the Asbestos Chapter of the 1976 Minerals Yearbook, U.S. Bureau of Mines, authored by Robert A. Clifton, it is stated that *end-use data for the United States in the Year 1976* were difficult to analyze due to only a partial recovery from the effects of the recession and to the seven-month strike in Quebec. Decreases were noted in the utilization of asbestos in certain products, as follows: paper, 53%; asbestos-cement sheets, 48%; flooring, 16%; and asbestos-cement pipe, 9%. Asbestos used in friction products remained about the same, but that used in roofing products increased a surprising 447%, as reported to the Bureau by consumers. Products used in the construction industry accounted for about 73% of the asbestos consumed in the U.S. in 1976.

U.S. asbestos distribution by end use in 1976 totaled a revised 726,300 short tons of asbestos. The breakdown, by product classification, was 253,600 tons (35%) in roofing products, 140,000 tons (19%) in asbestos-cement pipe, 113,500 tons (16%) in flooring materials, 63,800 tons (9%) in friction products, 31,000 tons (4%) in paper, 22,700 tons (3%) in asbestos-cement sheets, 21,500 tons (3%) in plastics, 20,100 tons (3%) in packings and gaskets, 19,900 tons (3%) in coatings and compounds, 7400 tons (1%) in textiles, 6600 tons (1%) in thermal insulation, and 26,200 tons (3%) in other products.

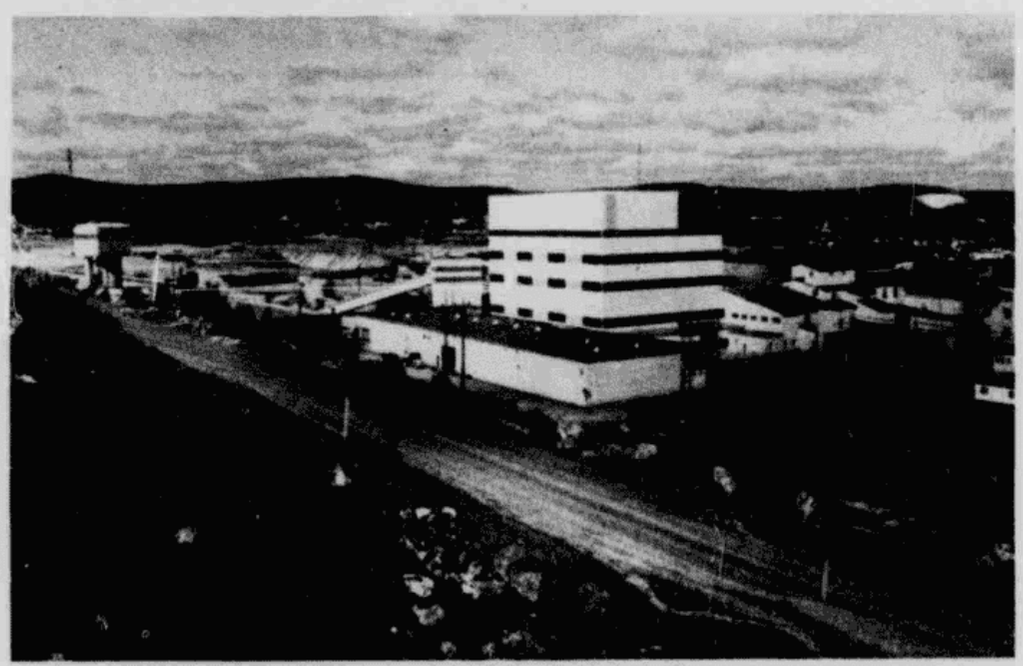
Over 96% of the asbestos distributed was of the Chrysotile variety. The remaining 4% included 21,400 tons of Crocidolite in asbestos-cement pipe, packings and gaskets, plastics and paper; 4500 tons of Amosite in asbestos-cement pipe and sheets, thermal insulation, friction and other products; and 1500 tons of Anthophyllite in asbestos-cement sheets, friction materials and plastics.

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Producer of all grades of chrysotile asbestos fibres.



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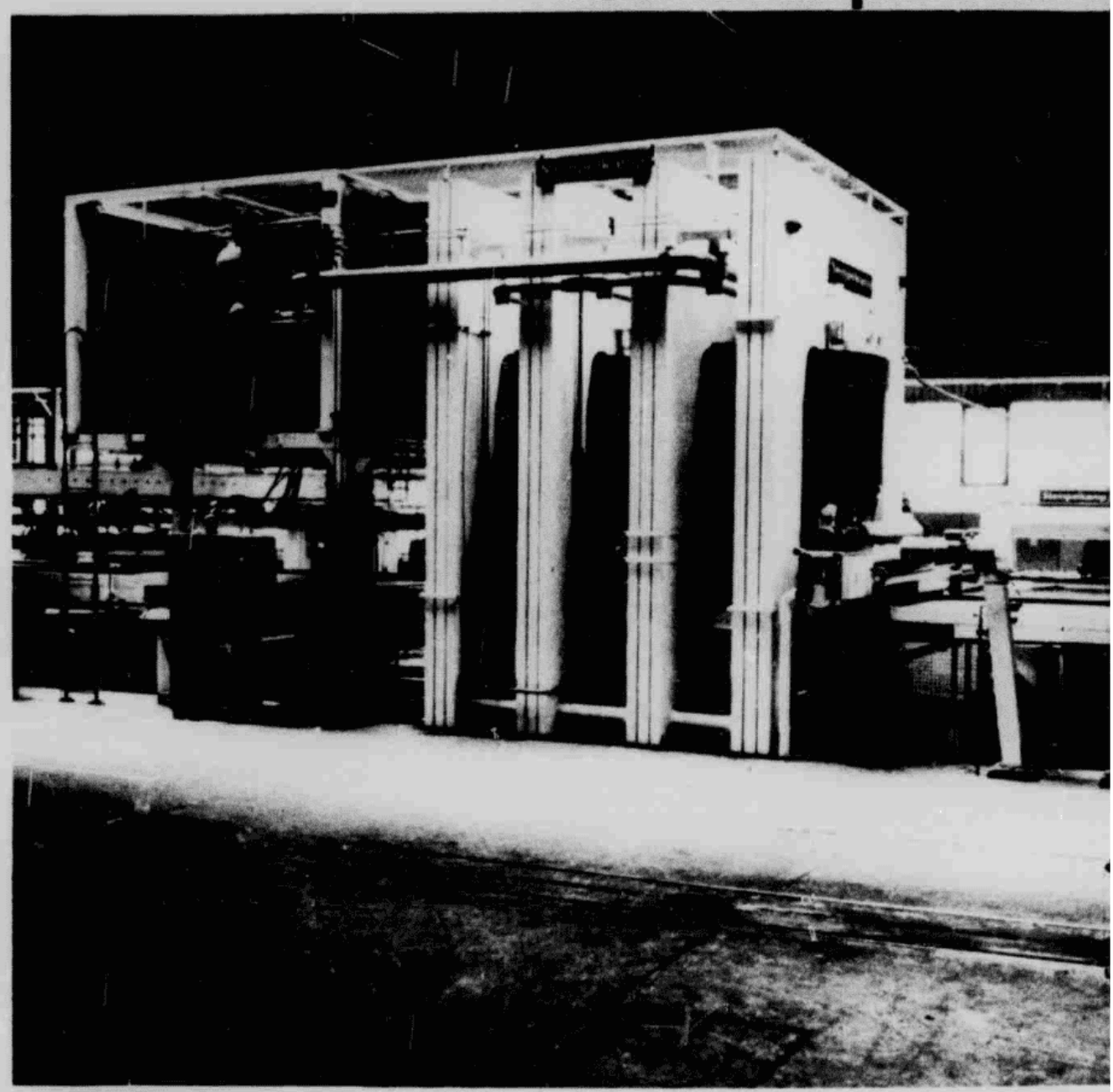
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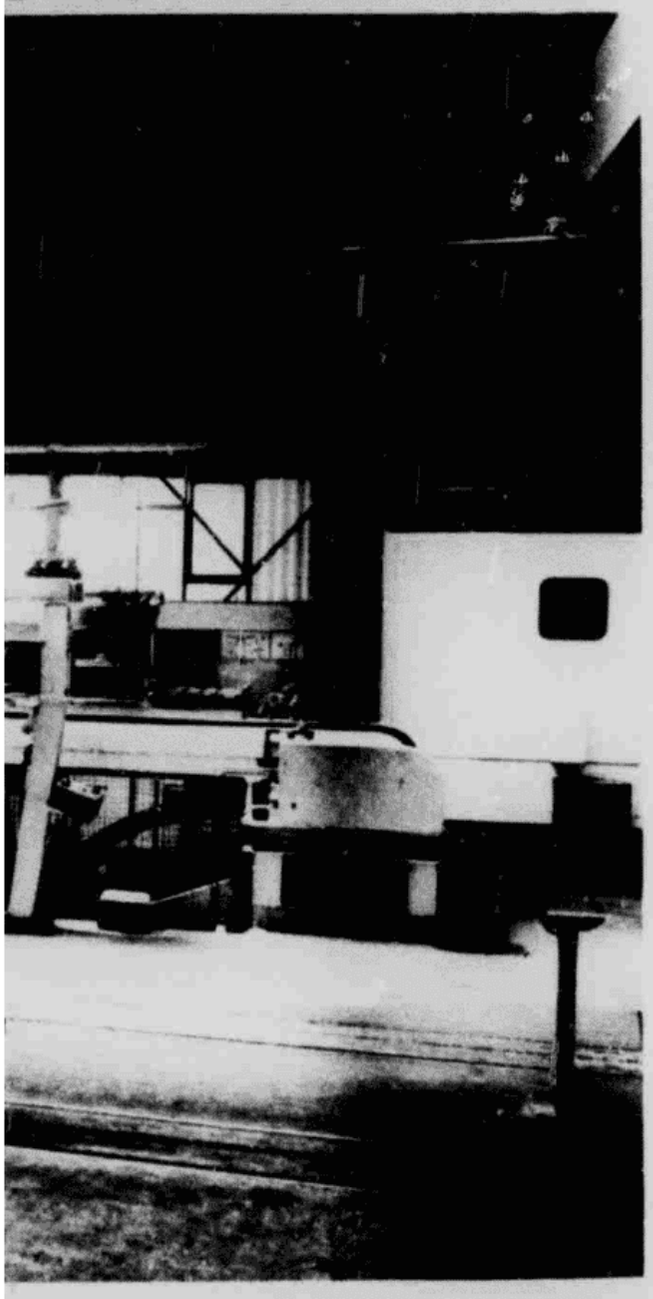
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ic production plants for the of:

flat and corrugated asbestos-cement sheets

asbestos-cement pipes

ic press lines ction of:



highly compressed asbestos-cement sheets

Fully automatic press lines for: laminating of flat asbestos-cement sheets

Fully automatic press lines for the production of building elements

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:			APRIL 1978
Amosite, South Africa	s.tons	40	$ 27,684
Crocidolite (Blue), South Africa	s.tons	306	180,840
Chrysotile Crudes	s.tons	..	..
Chrysotile Spinning Fibers, Canada	s.tons	801	697,865
Chrysotile, Other, Canada	s.tons	41,911	9,865,600
South Africa	s.tons	78	53,170
Other Crudes & Fibers, Canada	s.tons	931	254,055
South Africa	s.tons	344	210,434
		44,411	$11,289,648

MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	883,473	$ 1,563,787
A-C pipes, tubes & fittings	Lb	1,193,588	132,916
Other asbestos-cement articles	Lb	1,791,062	462,307
Other asbestos articles		..	560,819
			$ 2,719,829

UNMANUFACTURED ASBESTOS:			JANUARY-APRIL 1978
Amosite, South Africa	s.tons	443	$ 229,331
Crocidolite (Blue), South Africa	s tons	5,084	3,157,069
Chrysotile Crudes, Canada	s.tons	20	13,842
South Africa	s.tons	370	239,564
Chrysotile Spinning Fibers, Canada	s.tons	2,443	2,041,384
Chrysotile, Other, Canada	s.tons	174,359	42,025,634
Mexico	s.tons	75	5,598
South Africa	s.tons	219	144,165
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	3,241	761,891
India	s.tons	19	4,139
South Africa	s.tons	905	598,250
USSR	s.tons	1,113	324,447
		188,339	$49,573,892

MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	3,715,679	$ 5,937,175
A-C pipes, tubes & fittings	Lb	6,270,412	731,795
Other asbestos-cement articles	Lb	6,650,742	1,476,054
Other asbestos articles		..	2,439,722
			$10,584,746

January-April 1977: U.S. imports of unmanufactured asbestos totaled 186,801 short tons, valued at $47,011,156; imports of manufactured asbestos products were valued at $10,112,975.

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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

APRIL 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	2,770	$ 878,335
Asbestos Sand & Refuse	s.tons	1,038	257,317
		3,808	$ 1,135,652

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	505,541	$ 501,165
Asbestos-Cement shingles & clapboard	Lb	2,711,467	796,996
Other asbestos-cement articles	Lb	1,678,049	611,078
Asbestos gaskets	Lb	819,611	488,413
Asbestos packing & seals	Lb	322,902	844,501
Asbestos insulation		..	389,458
Brake linings & disc brake pads		..	3,728,128
Clutch facings & linings		..	1,113,296
Other asbestos articles		..	1,889,013
			$10,362,048

JANUARY-APRIL 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	7,675	$ 2,708,639
Asbestos Sand & Refuse	s.tons	5,380	1,213,428
		13,055	$ 3,922,067

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	2,651,689	$ 2,390,916
Asbestos-Cement shingles & clapboard	Lb	10,355,268	2,217,847
Other asbestos-cement articles	Lb	5,926,334	2,739,451
Asbestos gaskets	Lb	2,505,791	1,263,336
Asbestos packing & seals	Lb	2,574,252	3,743,368
Asbestos insulation		..	1,881,164
Brake linings & disc brake pads		..	12,216,612
Clutch facings & linings		..	4,252,714
Other asbestos articles		..	6,384,009
			$37,089,417

January-April 1977: U.S. exports of unmanufactured asbestos reached 11,113 short tons, valued at $3,496,537; exports of manufactured asbestos products were valued at $23,100,669.

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EXPORTS FROM CANADA

From Statistics Canada

APRIL 1978

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	397	19,973	16,339
Eastern Europe	..	898	5,374	367
Middle East	..	..	1,920	5
Africa	..	6	390	200
Asia	..	215	3,871	7,384
Oceania	..	..	5,183	54
So. & Cen. America & Antilles	..	205	8,048	2,920
United States	..	628	11,887	38,829
	..	2,349	56,646	66,098

The total amount of unmanufactured asbestos exported in *April 1978* was 125,093 short tons, valued at C$47,641,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 275,000
Asbestos brake linings & facings	309,000
Asbestos-Cement building materials	1,248,000
Other basic asbestos products	675,000
	$ 2,507,000

JANUARY-APRIL 1978

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,888	64,990	46,195
Eastern Europe	..	1,185	12,571	992
Middle East	..	..	5,540	1,384
Africa	..	6	2,710	220
Asia	..	925	28,958	37,995
Oceania	..	2	13,730	1,228
So. & Cen. America & Antilles	..	488	31,918	14,655
United States	..	2,461	41,853	150,950
	..	6,955	202,270	253,619

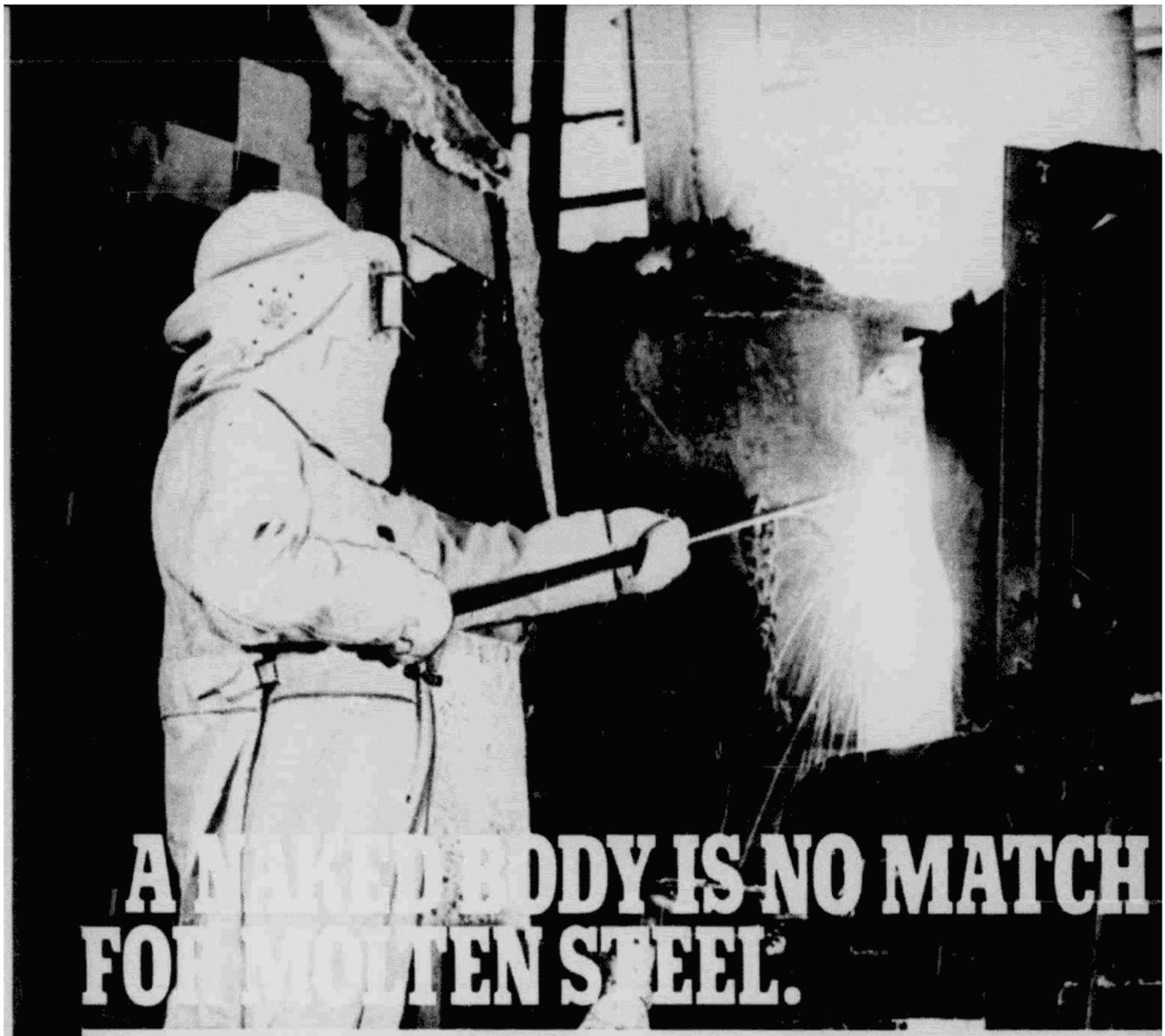
The total amount of unmanufactured asbestos exported in *January-April 1978* was 462,844 short tons, valued at C$166,300,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 901,000
Asbestos brake linings & facings	1,029,000
Asbestos-Cement building materials	4,572,000
Other basic asbestos products	2,011,000
	$ 8,513,000

January-April 1977: Canadian exports of unmanufactured asbestos totaled 528,678 short tons, valued at $181,200,000; exports of manufactured asbestos products were valued at $5,994,000.

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A[illegible]ODY IS NO MATCH FO[illegible]TEN STEEL.

You can imagine the result of having molten steel splashed onto your skin. That is, if you could stand the heat of a steel mill in the first place.

It's obvious why people who work here wear protective clothing. It's also obvious why that clothing is made of asbestos cloth.

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Other representatives world-wide.

THE INTERNATIONAL MINING SCENE

VERMONT ASBESTOS MAY STILL CHANGE HANDS

Attorneys for *Schoeffer Associates, Inc.*, have again extended the closing date for the tender offer for *Vermont Asbestos Group, Inc.*—this time to July 7. When the offer was first tendered, Schoeffer made it conditional that 67% of VAG's 1867 shares of stock be obtained. The condition was later revised to 51%, but now has been dropped. Purchase price set by Schoeffer is $2200 per share vs. a tender offer by *VAG President Howard A. Manosh* for shares at a price of $1834 each. *John Lupien*, a founder of VAG and former Board Chairman who was dismissed in May as President of the subsidiary, Vermont Industrial Products, Inc., expressed confidence that the sale to Schoeffer will materialize and that the new owners will seek his election as President and Chief Operating Officer of the mining company.

MAGNESIUM FROM ASBESTOS?

A new technique has been developed by Prof. Jean-Marc Lalancette, University of Sherbrooke, whereby magnesium hydroxides and carbonates can be extracted from asbestos tailings. The method takes the magnesium compounds from the asbestos by exposing the tailings to a sulphurous gas at normal pressure and medium temperature. The pilot project is being funded by the *Quebec Asbestos Bureau* and by the fall of this year, a decision on commercial feasibility is expected. According to The Hon. Yves Berube, Quebec Minister of Natural Resources, a U.S. firm has indicated interest in possibly participating in the project.

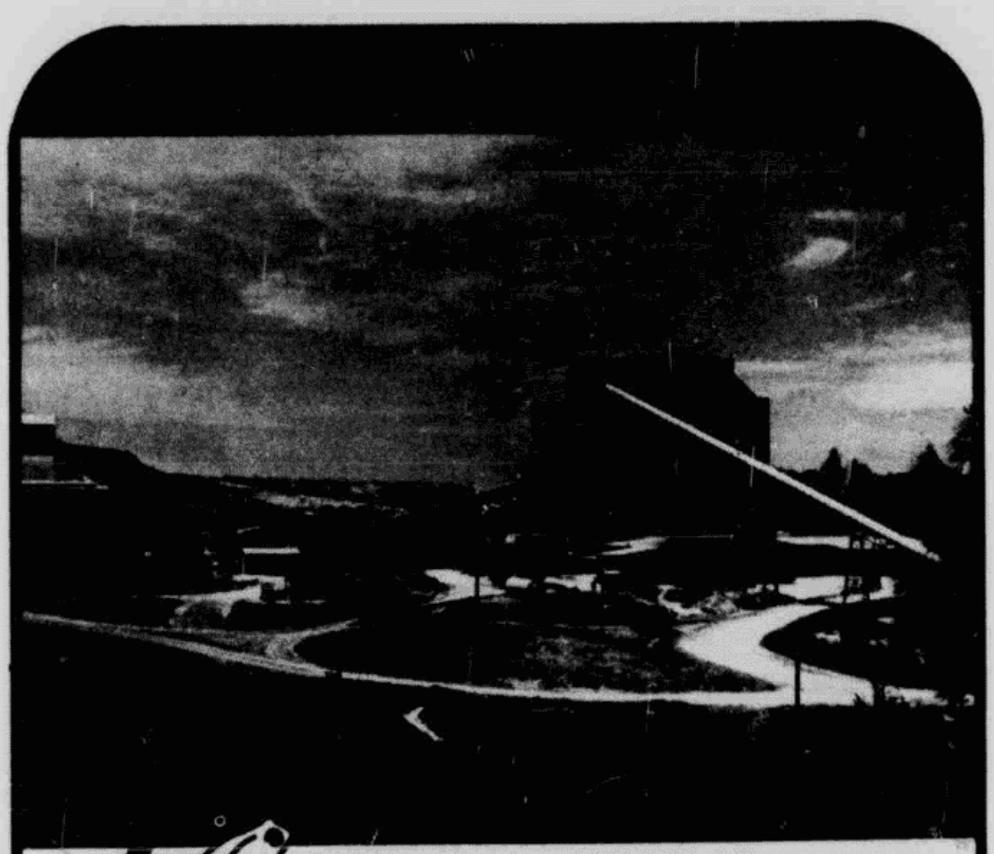
GRECIAN ASBESTOS PROJECT BEGUN

Ground has been broken for the construction of the *asbestos plant at Zidani, near Kozani, Greece.* The $68-million facility will eventually process 100,000 tons of asbestos fiber per year, about 75% of which will be for export. According to Industrial Minerals some Eastern Bloc and African nations have expressed interest in the potential supply of fiber.

WOODSREEF REPORT FROM AUSTRALIA

In its quarterly and semi-annual report, *Woodsreef Mines Ltd.* states that production at its asbestos mines at Barraba and Baryulgil, New South Wales, Australia, for the quarter ended April 30, 1978, totaled 16,500 metric tons, an increase of 2774 tons over the previous quarter and 1050 tons over the corresponding three months in 1977. Shipments in the quarter totaled 15,006 tons, reflecting an upturn from the prior quarter. . . . For the six months ended April 30, 1978, fiber produced reached 30,226 tons, 564 tons over the same period a year earlier; fiber shipments amounted to 26,066 tons, up 1474 tons; and revenue from invoiced sales totaled A$8,093,000, down $1,555,000. Comparing the two semi-annual

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periods, net operating loss based on revenue from actual production was $3,738,000 in 1978 vs. a profit in 1977 of $48,000; capital and development expenses at Barraba by *Chrysotile Corporation of Australia Pty. Ltd.*, a subsidiary, was $383,000 against $473,000; and expenditure by Woodsreef Mines at its other exploration properties was $18,000 compared with $186,000.

The reduction in revenue from production was mainly due to the fall in value of the Canadian dollar and also to the reduction to a six-day milling week, some discounting and problems in the open-pit which prevented the supply of blended ore to the mill. In addition, revenue was affected by a $81,000 decrease in the value of fiber stocks. The expected improvement in revenue did not materialize due to continued inability to supply blended ore to the mill. With improved waste rock movement in April and May, it is anticipated that the effect of better blending will become evident in June 1978.

There has been a significant improvement in sales of fiber and it is expected that fiber stocks will be reduced to normal levels by the end of 1978. . . . Development work on improvements to the dry milling process advanced to the stage where a trial circuit is now installed at the mill at Barraba. Results to date indicate that substantial increases in recovery could be achieved with a full-scale circuit. . . . Development work on the wet milling process continues and progress is most encouraging. . . . WML has sought assistance from the New South Wales and the Federal Governments to meet the losses being incurred at the Barraba Mine. No decisions have been reached as yet.

PRICES UP FOR "CALIDRIA" ASBESTOS

Increases for "Calidria" asbestos of approximately 7% in January 1978 and about 5% in June 1978, were announced by Union Carbide Corporation, Metals Division. As of June 15, 1978, the costs, F.O.B. Plant at King City, California, are as follows:

PRODUCT NAME	*APPLICATION*	*US$/S.TON*
SG 100—paper bags	Vinyl-asbestos floor tile	$ 112.00
SG 103—plastic bags	vinyl-asbestos floor tile	112.00
SG 104—bulk	vinyl-asbestos floor tile	96.00
SG 130—open fiber	general	150.00
SG 200—pellets	rubber tile	140.00
SG 210—open fiber	general	190.00
HPP——pellets	rubber reinforcement	176.00
HPO——open fiber	asphalt	190.00
RG 110—open fiber	roofing	210.00
RG 144—open fiber	resin viscosity control	460.00
RG 244—open fiber	resin viscosity control	2000.00

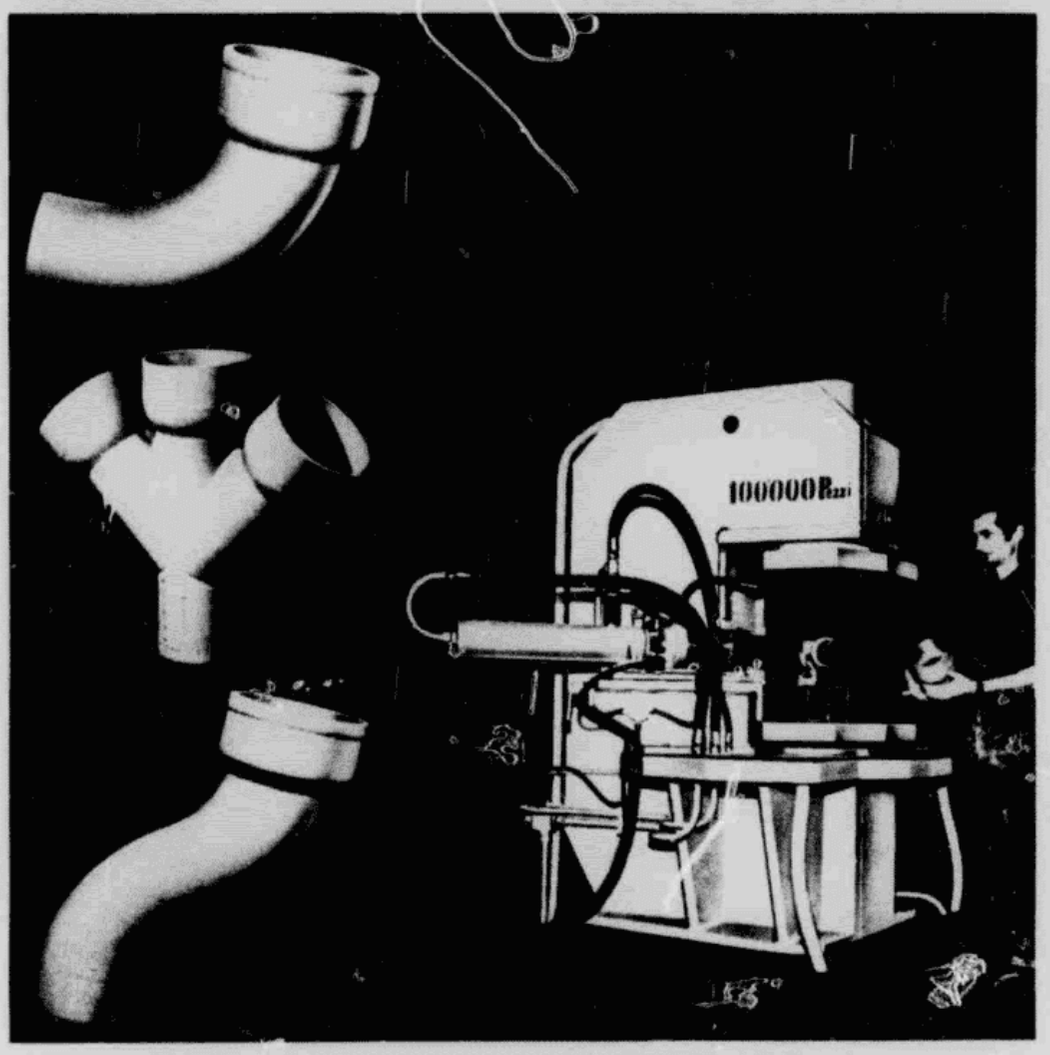
—WELCOME TO THE FOLLOWING NEW ADVERTISER—

ACADEMIC PRESS, INC., New York & London; page 19

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CURRENT ASBESTOS PRICES

ARIZONA

As of July 1, 1976

Per Ton of 2000 Lbs., F.O.B. Globe, Arizona

	U.S. Dollars
No. 1 Crude (Soft)	$ $3000.00
No. 2 Crude (Soft)	1800.00
AAA	1300.00
Group No. 3—Nonferrous Filtering—Plastic	750.00— 840.00
Group No. 4—Nonferrous Filtering—Plastic	750.00— 840.00
Group No. 7—White Shorts	100.00— 200.00

QUEBEC

As of January 1, 1978

Per Ton of 2000 Lbs., F.O.B. Mine

	Canadian Dollars
No. 2—Crude	2165.00
No. 3—Spinning Fiber	965.00— 1501.00
No. 4—Asbestos Cement Fiber	642.00— 945.00
No. 5—Paper Fiber	323.00— 501.00
No. 6—Paper and Shingle Fiber	307.00— 311.00
No. 7—Shorts	107.00— 213.00

CASSIAR

As of January 1, 1978

Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.

		Canadian Dollars
	Cassiar Mine	
C-1	—No. 1 Crude	$3621.00
AAA	—Nonferrous Spinning Fiber/Canadian Group 3	2000.00
AA	—Nonferrous Spinning Fiber/Canadian Group 3	1600.00
A	—Nonferrous Spinning Fiber/Canadian Group 3	1050.00
AC	—Nonferrous Spinning Fiber/Canadian Group 3	960.00
AK	—Asbestos Cement Fiber/Canadian Group 4	810.00
AS	—Asbestos Cement Fiber/Canadian Group 4	705.00
AX	—Asbestos Cement Fiber/Canadian Group 4	610.00
AY	—Asbestos Cement Fiber/Canadian Group 5	430.00
AZ	—Asbestos Cement Fiber/Canadian Group 6	330.00
	Clinton Mine	
CP	—Asbestos Cement Fiber/Canadian Group 4	760.00
CT	—Asbestos Cement Fiber/Canadian Group 4	680.00
CY	—Asbestos Cement Fiber/Canadian Group 5	430.00
CZ	—Asbestos Cement Fiber/Canadian Group 6	330.00

VERMONT

As of January 1, 1978

Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont

	U.S. Dollars
Grade 4T—Fiber	$ —$ 501.00
Grades 5D thru 5R—Fiber	330.00— 387.00
Grade 6D—Waste	— 239.00
Grades 7D thru 7T—Shorts	95.00— 182.00
Grade 7TF—Floats (Shorts)	— 82.00
Grade 8S—Shorts	— 62.00
Hooker No. 1—in 50-lb. woven polypropylene bags	1166.00
Hooker No. 2—in 100-lb. woven polypropylene bags	583.00

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ANNUAL REPORTS—1977

COLT INDUSTRIES, INC.

The multimarket strengths and resultant breadth and balance of the earnings base of Colt Industries, Inc., were well demonstrated in 1977 as the majority of the company's major businesses achieved gains over 1976 and several posted all-time sales and earnings highs. Net earnings in 1977 were $69.5-million, equal to $8.10 per common share, on sales of $1.5-billion. This compares with restated 1976 earnings of $66.8-million, or $7.87 a common share, on sales of $1.3-billion. . . . Percentage of contribution to operating income, by industry segment, is: 30% from industrial and power equipment, 26% from materials, 22% from fluid control systems, 15% from industrial seals and components and 7% from shock mitigation systems. Worthy of note are a particularly strong performance by the Central Moloney Transformer Division and record results in such product areas as Garlock industrial seals and components, Holley carburetors, Fairbanks Morse diesel engines and Quincy compressors. . . . Capital expenditures during the year for new plant and equipment amounted to $46-million. . . . Menasco Manufacturing Company, a leading supplier of landing gear assemblies, became a wholly-owned subsidiary of Colt on May 20, 1977. At a price of $56.00 a share for Colt common stock at the time of exchange, the total cost of the transaction was $59.1-million.

Industrial Seals & Components—This segment of Colt's business is comprised of Garlock mechanical packings, precision oil seals and special products; Stemco trucks products; France compressor products; Woodville Rubber Company, Ross-on-Wye, England; and Garlock Packing International, Zurich, Switzerland. Garlock is a major supplier of engine, transmission and wheel seals to the automotive industry. Its packing and sealing products are made of various combinations of rubber, metals, textiles, asbestos, plastics and chemical compounds. Garlock special products include bearings, hydraulic and pneumatic cylinders and TFE plastic products. Garlock Packing International markets Garlock industrial seals, packing and other products throughout the world and is expanding both markets and geographical coverage. New regional sales offices were opened in 1977 in Tokyo, Singapore, Copenhagen and Miami for more intensive coverage and marketing support in the Far East, Scandinavia and Latin America.

GAF CORPORATION

On July 22, 1977, GAF Corporation undertook a course of action designed to eliminate parts of its business which were either unprofitable or lacked good profit potential, in order to concentrate resources in areas that have the most promising futures. The areas of elimination involved the consumer photographic business; dye, pigment and photoprocessing operations; felt and filters plants; a small chemical distribution business serving the Mid-South; and some assets of the projector manufacturing opera-

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tions in Portland, Oregon. In addition, GAF sold its 49% share in Chemical Developments of Canada Ltd. That company, however, will continue to distribute GAF chemicals in Canada. . . . During 1977, GAF sales from continuing businesses totaled $943-million with losses (including provisions for discontinued operations) of $47-million. Excluding discontinued businesses, profits were $26.7-million. For the year 1976, net sales amounted to $853-million and net income reached $20-million.

Pollution Control—During 1977, work was completed on a wastewater treatment facility at the chemicals facility at Linden, New Jersey; a dust control system at the roofing granules plant at Charmian, Pennsylvania; a water treatment and surface runoff facility for the chemicals plant at Texas City, Texas; and an effluent recycle system at the building materials plant at Bound Brook, New Jersey. Over $9-million was spent on pollution control in 1977, bringing to $54-million the sum GAF has expended in this area since an accelerated program was begun in 1965.

Building Materials—GAF is the world's largest manufacturer of asphalt roofing, ranks second in floor tile and is third in sheet vinyl flooring. GAF building materials attained record sales of $474.2-million in 1977, 12% over 1976. Operating profits, which were held back largely by cost increases in raw materials, nevertheless approached 1976 levels. Roofing, the group's most important product area, requires that GAF buy large amounts of asphalt—a petroleum based product which continues to rise sharply in cost. Sales of mineral fiber/cement products, used in power plant cooling towers, continued the upward trend experienced in 1976. This market will continue to grow as more power plants go into construction to meet the energy needs of the United States.

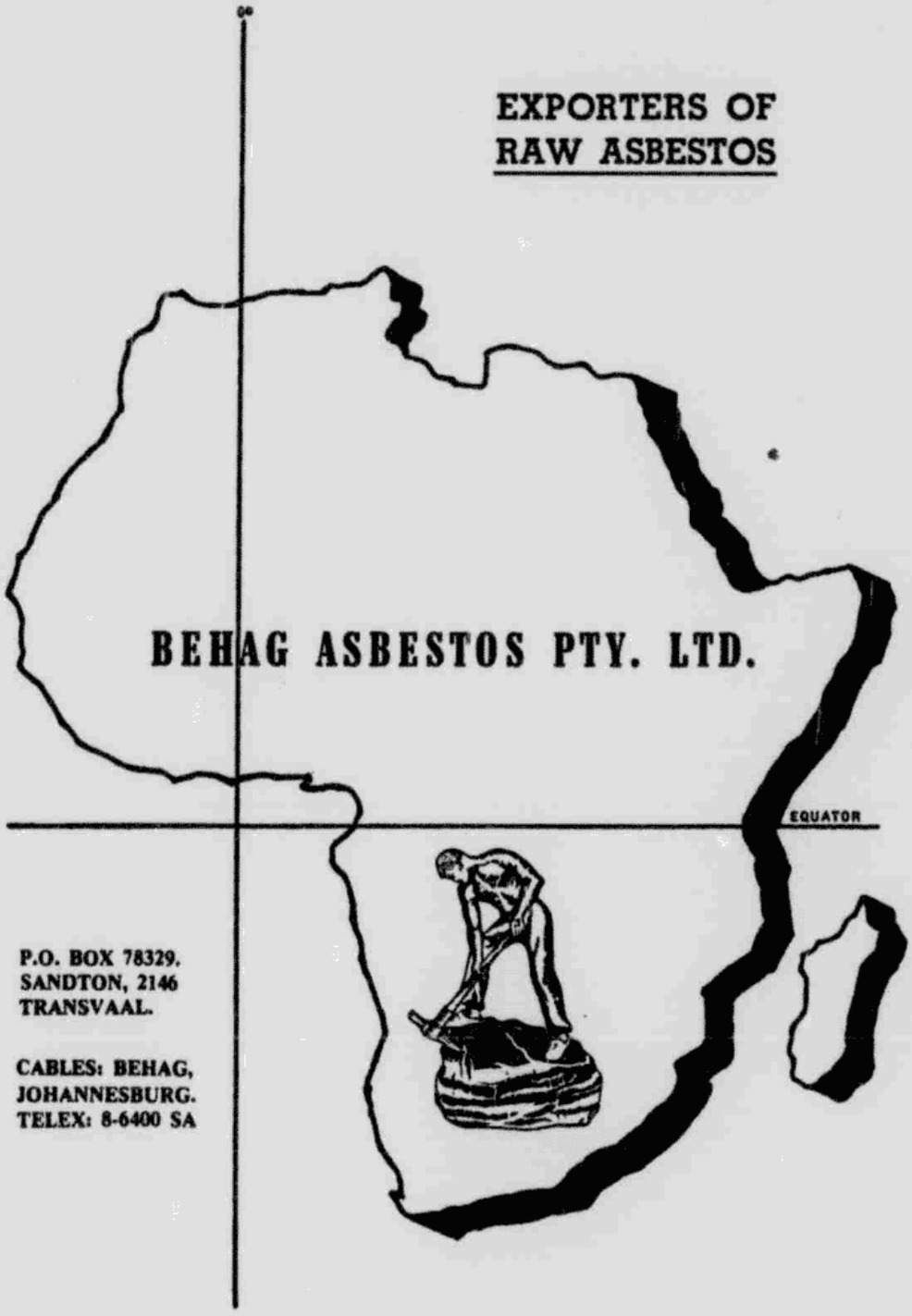
MSAULI ASBES LTD.

Msauli Asbes Ltd. reported consolidated sales in 1977 of R18.1-million against R16.2-million in 1976; net income of R7.5-million against R7.1-million; and Group net assets of R13.2-million vs. R11.1-million. General Mining and Finance Corporation Ltd. continues to render administrative, secretarial and technical services to the company. Msauli Asbes owns the entire issued share capital of its mining subsidiary, African Chrysotile Asbestos Ltd., which sells Chrysotile asbestos fiber produced at its mine in the Barberton District, in the Transvaal, Republic of South Africa.

African Chrysotile Asbestos Ltd.—Pertinent statistics for the year 1977 include: fiber produced—100,669 tons; fiber sales—86,600 tons; percentage recovery—10.09%; recovery per ton of ore—R21.99; capital expenditure per ton of fiber produced—R15.57; revenue per ton of fiber sold—R208.55; cost of sales per ton of fiber—R65.28; and selling expenses per ton of fiber—R56.47. Sales of the major grades produced remained at the 1976 level while a reasonable price increase of 14% was accepted by the market. The small 5% decrease in total sales was accounted for in its entirety by the predicted reduced demand of the low-priced shorter grade which represents 13% of total sales in 1977 vs. 18% in 1976. . . . *Projections*—The general world economic decline has finally affected the asbestos market and a fairly dormant period is expected

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EXPORTERS OF
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in the immediate future while accumulated stocks from traditional sources as well as a certain quantity of low-priced, dumped material of Russian origin in the vital Far East market is absorbed. In the medium term, a fairly steady return to normal trading is expected; in the longer term there are numerous indicators to suggest substantial shortages. . . . *Production*—The tonnage milled increased 23% over the previous year although fiber production increased just 5.5%. This was due in part to lower ore grades in current mining areas and to a planned reduced extraction of the shorter grades to match the market demand as the year progressed. Production in 1978 will be at a reduced rate to decrease fiber stocks to optimum levels and to match market demand. . . . *Capital Expenditures* totaled R1.6-million and covered shaft sinking, additional mining equipment, completion of plant extensions and modifications, power distribution and improved dust suppression. Capital expenditures in 1978 will be approximately R700,000, mainly for continued shaft sinking and equipping, manhoisting arrangements, improved tailings disposal and further pressure packing and unitizing equipment for competitive marketing. . . . *Prospecting*—Surface and underground drilling was directed at detailed delineation and evaluation of the present known orebodies. Promising fiber indications in the southern portion of the claim area will be followed by diamond drilling. Capital will be provided during 1978 for regional prospecting in addition to normal operational prospecting.

ASBESTOS STOCK QUOTATIONS

Close—July 18, 1978

Abitibi Asbestos	C$.85	Gulf & Western	13⅞
Advocate Mines	C$3.15	G&W (pfd 2.50)	32⅛
Armstrong Cork	16⅞	G&W (pfd 3.87)	67
Armst. Cork (pfd 3.75)	46½	IC Industries	26
Asarco	14⅜	IC Ind (pfd 3.50)	44
Asbestos Corporation	C$44.25	Jim Walter Corporation	29
Bendix	38¼	Jim Walter (pfd 1)	11⅛
Bendix (pfd 3)	77½	Jim Walter (pfd 1.60)	31
Carlisle	25⅞	Johns-Manville	29½
Cassiar Asbestos	C$10.75	Kennecott Copper	22⅜
CertainTeed	19¼	Lear Siegler	18½
Charter Conso.	pence 144	Lear Siegler (pfd 2.25)	46
Colt Industries	38⅞	Maremont	21¼
Colt Ind. (pfd 1.60)	30⅝	McAdam Mining	C$.28
Colt Ind. (pfd 4.25)	83¼	National Gypsum	17¼
Conwest	C$6.625	Pathfinder	C$.39
Flintkote	27½	Raybestos-Manhattan	34
F-kote (pfd-B 2.25)	35½	Rio Algom	C$33.875
GAF Corporation	13⅜	Union Carbide	38⅛
GAF (pfd 1.20)	17⅞	Woodsreef Minerals	C$.54

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MEN ON THE MOVE

BRINCO LTD.

Following the recent resignation of *Donald R. DeLaporte*, reportedly "for personal reasons," *Graeme Elliot* has been appointed President of Brinco Ltd., on an interim basis. He had been General Manager-Finance for Conzinc Riotinto of Australia Ltd., a subsidiary which is 80.6% owned by Rio Tinto-Zinc Corporation, London, England. Brinco is 66.2% owned by Rio Tinto-Zinc and 16.6% owned by Bethlehem Steel.

CERTAINTEED CORPORATION

Several corporate changes were announced by *Marcel Levecque*, the new Chairman, President and Chief Executive Officer of CertainTeed Corporation. *Franklin R. Winnert*, formerly a Senior Vice President, was appointed Executive Vice President. Named as Senior Vice Presidents were *George E. Mitchell, Edwin L. Harper and Myron P. Simmons*. Mr. Mitchell will be responsible for industrial and building products, Mr. Harper will serve as Chief Administrative Officer and Mr. Simmons will be Chief Legal Officer and Secretary. Promoted to the Corporate Vice Presidency were *Charles E. Dyer*, formerly Director of Production Operations; *Lester F. Kaas*, formerly Assistant Vice President; and *Joseph G. LaCroix*, who will continue as President of the Shelter Materials Group.

JIM WALTER CORPORATION

Janice Schobert Allen is now Manager of Public Relations Services, having been Public Relations Representative since 1973 when she joined Jim Walter Corporation. Prior to that time, Ms. Allen was responsible for employee communications for First International Bancshares, Houston, Texas.

H. K. PORTER COMPANY, INC.

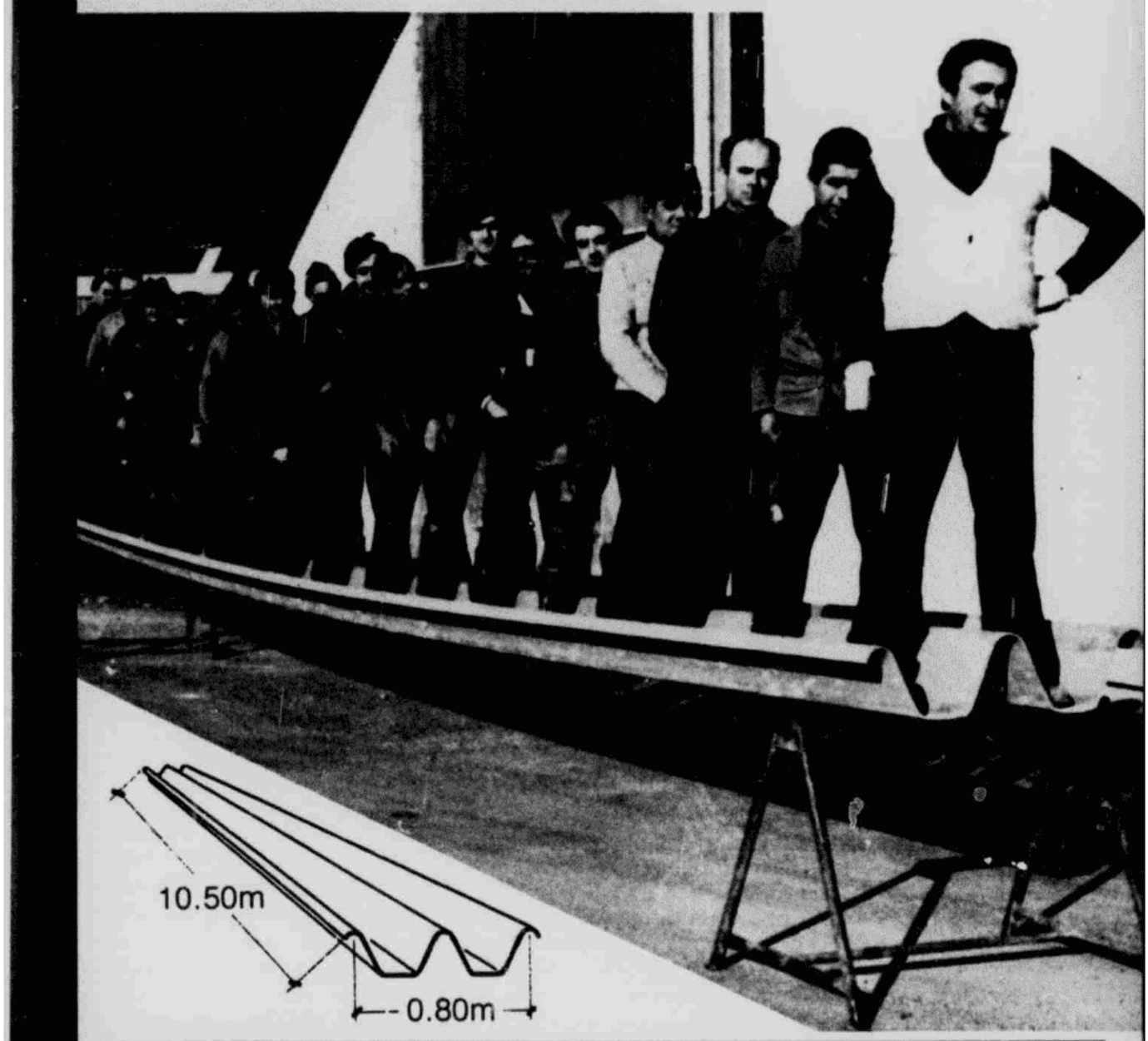
R. M. Scott, General Manager, Rubber Group, announced the promotion of *Ronda Robinson* to After-Market Customer Service Representative, Thermoid Division, Bellefontaine, Ohio. Ms. Robinson has been with H. K. Porter Company, Inc., for several years. . . . Significant management personnel changes within the Friction Products Group, Thermoid Division, include the naming of *Richard L. Hayes* as Group General Manager and *J. C. Black* as Sales Manager-Automotive Friction. Mr. Hayes had been President of Starcraft Corporation and a Division General Manager with Midland Ross Corporation. Mr. Black has been with Porter for about 25 years, having held various managerial positions in engineering, manufacturing and sales. . . . *Dale Borror* was promoted from Ducting Specialist to Sales Service Manager for the Chanute Works, Chanute, Kansas. His primary responsibility will be communications between the plant and customers and coordinating plant activities with customer flexible ducting needs through the Sales Department.

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BIRTHDAY GREETINGS to . . .

William B. Quinn, Director of Marketing Services, RM Friction Materials Company, Trumbull, Connecticut, September 15.

Chester E. Shepperly, Senior Vice President-Marketing and Administration, Johns-Manville Corporation, Denver, Colorado, September 15.

R. D. N. Somerville, a Director and Chief Executive-Construction Materials, Turner & Newall Ltd., Manchester, England, September 15.

F. D. Loneragan, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, September 16.

Norbert E. Vits, Managing Director, Don International S.A., Manage, Belgium, September 16.

Warren T. Whitley, President and Chief Executive Officer, Cement Asbestos Products Company, Birmingham, Alabama, September 16.

John Blondeau, Central Regional Manager, Carey-Canadian Mines Ltd., Cincinnati, Ohio, September 17.

D. Michael Pearson, Chairman, BBA Group Ltd., Cleckheaton, West Yorkshire, England, September 18.

Peter N. Berkley, Managing Director, Cape Universal Claddings Ltd., Tolpits, Watford, England, September 20.

Dr. J. B. Frost, Managing Director, Cape Investments (Pty) Ltd., Benoni, Republic of South Africa, September 21.

C. H. Walters, Chairman, The Griqualand Exploration and Finance Co. (Pty) Ltd., Johannesburg, Republic of South Africa, September 22.

Bernard Lincoln, Director, Asbestos Fibre Laboratory, Turner & Newall Ltd., Manchester, England, September 23.

N. Rhodes, a Director and General Manager-Asbestos Textiles, TBA Industrial Products Ltd., Rochdale, England, September 24.

Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.

Robert M. Gordon, President and Chief Operating Officer, Raybestos-Manhattan, Inc., Trumbull, Connecticut, September 25.

D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

Donald A. Bain, President and Sales Manager, Asbestos Erectors of Canada Ltd., Montreal, Quebec, October 3.

John J. Charles, a Sales Representative, Southern Asbestos Company, Charlotte, North Carolina, October 5.

John G. Cole, Mine Manager, Advocate Mines Ltd., Baie Verte, Newfoundland, October 5.

Douglas E. Berlin, Sales Representative (Far East), Asbestos Fiber Division, Johns-Manville Corporation, Denver, Colorado, October 8.

E. L. Alexander, Manager-Engineering, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

John G. Berry, Assistant to the Chairman and the President and a Director, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

G. P. Valgardson, Sales Office Administrator, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

J. W. Rawlings, Vice President/Product General Manager, Union Carbide Corporation, Metals Division, Niagara Falls, New York, October 12.

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LADD L. WILSON
1900-1978

Ladd L. Wilson, age 78, passed away July 4, 1978, following an extended illness. A native of Chicago, Illinois, Mr. Wilson was identified with the Asbestos Industry during his entire business career, beginning in 1920 when he joined the Sall Mountain Mining Company, Chicago. He was named President in 1950.

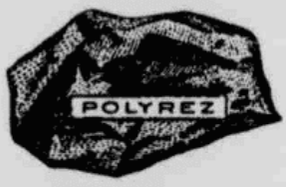
In 1957 he was appointed Vice President of Nicolet Industries, Inc., and was transferred from Nicolet's Executive Offices in Florham Park, New Jersey, to Hollister, California, to head the Protective Papers Division of Nicolet. He was President from 1966 until retiring in 1970, after which he served as Secretary-Manager of the San Benito County Chamber of Commerce, from 1970 to 1973.

In recognition of his contributions to the Asbestos Industry, in 1950 Mr. Wilson received Casting No. 2 of the prestigious Asbestos Story Ring.

In 1923 he was accepted as a Scottish Rite Mason at Hammond, Indiana. He also was a Member of the Hollister Rotary and Exchange Clubs.

Mr. Wilson is survived by his wife, Marion, of Hollister, California; a son, John T., of Riverdale, New Jersey; a daughter, Kathleen Anzaldo, of San Francisco, California; a sister, Marj Dorman, of LaPorte, Indiana; a brother, Grant V. Wilson, Sr., of Hinsdale, Illinois; and three grandchildren.

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AMERICAN INDUSTRIAL HYGIENE ASSOCIATION—The following articles appeared in recent issues of the AIHA Journal: Performance of the Piezoelectric Microbalance Respirable Aerosol Sensor; Occupational Physicians Share Malpractice Concerns; An Evaluation of the GCA Respirable Dust Monitor 101-1; The Effect of Probe Bluntness on Sampling Particulates from Calm Air; A Dust Generator for Laboratory Use; Automobile Brake Linings May be a Health Hazard. [Place orders for 100 or more reprints with AIHA, 475 Wolf Ledges, Akron, Ohio 44311; available on microfilm from University Microfilms International, 300 North Zeeb Road, Ann Arbor, Michigan 48106]

TOWARD A NATIONAL ENVIRONMENTAL MONITORING SYSTEM/MEASUREMENT IS A KEY—Response by the U.S. National Bureau of Standards to request by the U.S. Subcommittee on the Environment and the Atmosphere to explain how one can ensure that measurements made in a national environmental monitoring system are intercomparable; discusses establishment of a national reference baseline network for selected pollutants which are indicators of environmental quality in air, water, soil and biological specimens and to project trends in environmental quality. [NBS Dimensions; 4 pages]

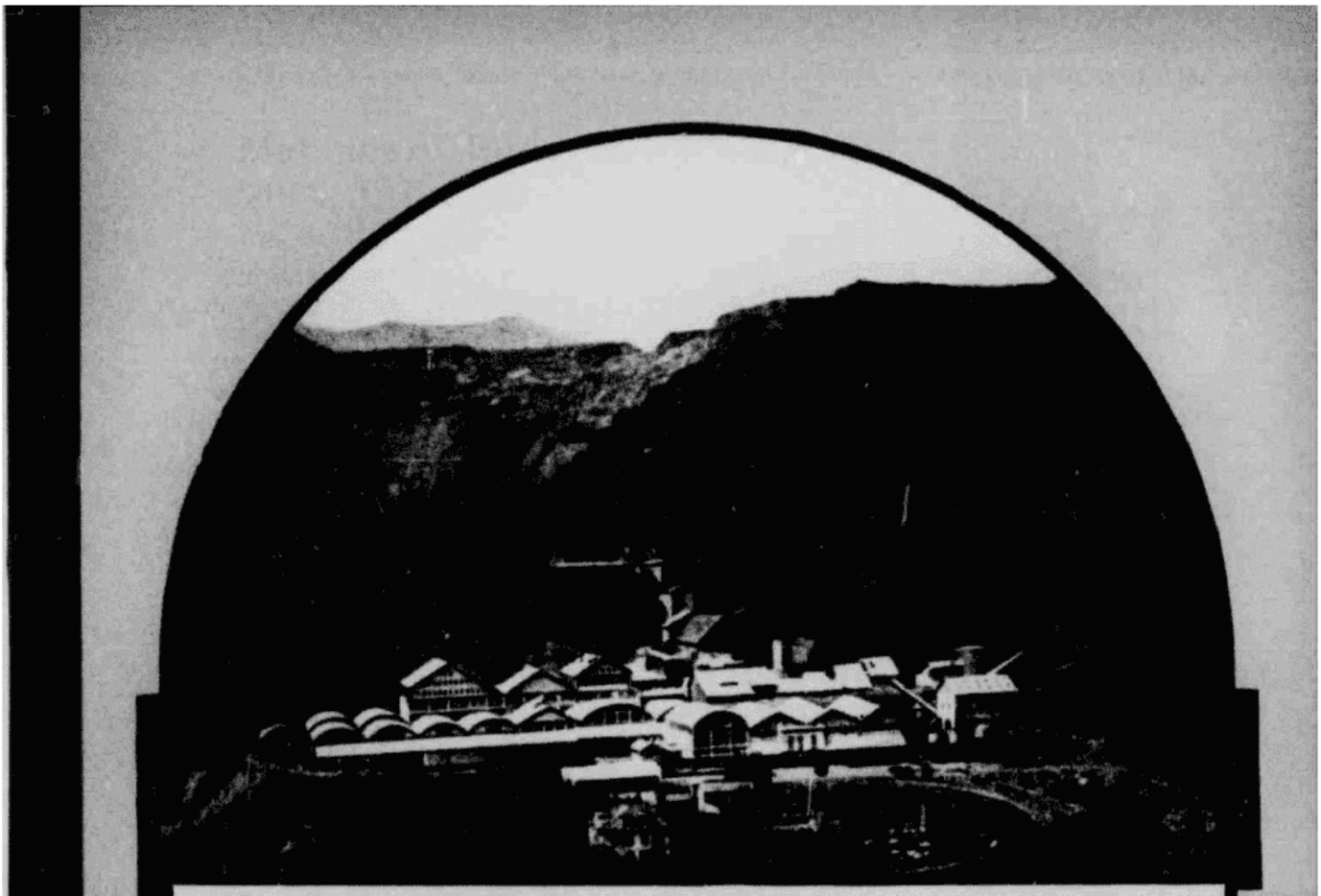
THE AMERICAN CHEMICAL SOCIETY—The following articles were noted in recent issues of Analytical Chemistry: Verification of a Particle Size Correction Method for X-ray Fluorescence Spectrometric Analysis of Environmental Samples; Direct Analysis of Mixtures by Mass Spectrometry; Size Classification of Fine Particles by Opposing Jets. [Order from ACS, 1155 16th Street N.W., Washington, D.C. 20036]

THE ETHEL: A MINE OF UNUSUAL INTEREST—Asbestos has long been one of Rhodesia's most important mining products and for many years rivaled gold as one of the two leading commodities of the nation; the largest asbestos mines are situated in Victoria Province but one of unusual interest and about which surprisingly little is known, is the Ethel Mine, near Mtoroshanga. [Chamber of Mines Journal; 5 pages]

PHILADELPHIA'S EXPERIENCE IN THE CONTROL OF EMISSIONS FROM ASBESTOS SPRAY FIREPROOFING OPERATIONS—Presented at the 64th Annual Meeting of the Air Pollution Control Association, June 1971; describes the multiple environmental health problems associated with the use of asbestos spray fireproofing and the administrative and legal steps taken by Philadelphia to control the problem. [Order from APCA, P. O. Box 2861, Pittsburgh, Pennsylvania 15230; $3.00]

PROTECTING LAKE SUPERIOR—Brief historical review of the long struggle between Reserve Mining Company and federal and state agencies concerning dumping of taconite tailings into Lake Superior; Reserve is in midst of project to phase out the dumping of waste rock into the Lake and depositing it 7 miles inland. [EPA Journal; 5 pages]

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AMERICAN SOCIETY FOR QUALITY CONTROL—Three of the numerous papers presented at the ASQC 42nd Annual Technical Conference, May 1978, are: Contribution of Quality Control to Product Liability Aversion; Quality Assurance in Environmental Regulations; What to Expect from an External Consulting Firm. [Single copies of published papers are available through Xerox University Microfilms, 300 North Zeeb Road, Ann Arbor, Michigan 48106; prices vary]

WINNING A BATTLE TO CONTROL WORKPLACE ASBESTOS—Discusses technical success at Resinoid Engineering Corporation, Skokie, Illinois, toward meeting the regulations of the OSHA Asbestos Standard; the company mixes asbestos with thermoset resins to produce commercial plastic molding compounds. [OSHA Job Safety and Health; 5 pages]

WALKAROUND PROVISION—Statement issued by the U.S. Department of Labor to interpret a provision in the Federal Mine Safety and Health Act of 1977 which grants walkaround rights to miners' representatives during a mine inspection by or conference with an inspector of the Mining Safety and Health Administration. [MSHA Mine Safety and Health; 5 pages]

OVERSEAS INVESTMENT BY JAPANESE TEXTILE CORPORATIONS—Report on seminar held February 1977 on cooperation between the Industrial Free Zones of the Arab Region. [United Nations Industrial Development Organization Newsletter; 23 pages]

Still Available . . . .

THE ASBESTOS FACTBOOK, 3RD EDITION—Compiled by the staff of ASBESTOS Magazine; written in layman's terms; offers useful information on the origin, locations and uses of asbestos; gives the chemical compositions of the various types of the mineral; contains data concerning testing methods and grades. [28 pages; $1.00 per paper-bound copy; order from ASBESTOS Magazine]

CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [$18.95 to the U.S., Canada and Mexico; $21.95 to all other countries; place orders with ASBESTOS Magazine]

ASBESTOS/A REMARKABLE MINERAL FIBER—Reference book on asbestos by Marion S. Badollet; presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [80 pages; $20.00 per copy; advance payment required; order from ASBESTOS Magazine]

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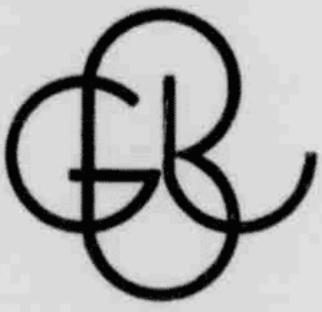
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REPORTS FROM NIOSH

ORDER FROM: PUBLICATIONS DISSEMINATION, DTS, NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, 4676 COLUMBIA PARKWAY, CINCINNATI, OHIO 45226. COMPLIMENTARY COPIES LIMITED TO TEN TITLES. WHEN ORDERING, INCLUDE SELF-ADDRESSED MAILING LABELS.

PROCEEDINGS OF SEMINAR/WORKSHOP ON CLINIC-BASED OCCUPATIONAL SAFETY AND HEALTH PROGRAMS FOR SMALL BUSINESSES—Firms which employ less than 25 people make up 90% of all establishments across the United States, yet their employees are often completely without occupational health services because small businesses lack the resources, expertise and time to develop them; discussed at the seminar/workshop was the need for clinic-based health services, national health insurance, legal requirements, costs, benefits, staffing and marketing. [DHEW/NIOSH 77-172]

A RETROSPECTIVE SURVEY OF CANCER IN RELATION TO OCCUPATION—Contains estimates of the relative risks of developing specific forms of cancer among persons employed in a variety of occupations; risk estimates for certain cancers were adjusted for differences in smoking habits between cancer cases and controls; among the statements in the report is that asbestos may account for the relatively high risk of lung cancer contracted by brickmasons, stonemasons and tilesetters. [DHEW/NIOSH 77-178]

GOOD PRACTICE MANUAL FOR INSULATION INSTALLERS—Guide to make installers more aware of some of the potential hazards of their daily work; discusses the risks from exposure to asbestos and suggests precautions to take, a recommended work routine, engineering and administrative controls, substitution of materials and protective equipment; covers heat stress, noise, silica, irritants, flammable materials and first aid and medical care. [DHEW/NIOSH 77-188]

AUTO BODY REPAIR SHOPS—Issued to acquaint the worker in a typical auto body repair shop with workplace health and safety hazards and good health and safety practices; discusses housekeeping, welding, grinders, hydraulic jacks and lifts, hand tools and air contaminents (including asbestos); covers epoxy plastics, solvents, spray painting, paint and solvent transfer, noise, glazing, radiator and air conditioning repair, fuel tanks, personal protective clothing and equipment, fire safety and first aid. [DHEW/NIOSH 77-229]

REVIEW AND EVALUATION OF ANALYTICAL METHODS FOR ENVIRONMENTAL STUDIES OF FIBROUS PARTICULATE EXPOSURES—Reviews sampling and analytical methods which may be used to identify and quantify fibrous particulates in environmental samples; describes the electron microscopic techniques used by NIOSH; includes electron photomicrographs and typical optical data on six varieties of asbestos. [DHEW/NIOSH 77-204]

WORKING WITH CARCINOGENS—Developed as an introduction to occupational carcinogenesis; consists of a non-technical discussion of cancer, carcinogens and requirements of OSHA's Standards for 14 carcinogens promulgated in 1974 including asbestos, vinyl chloride and coke oven emissions. [DHEW/NIOSH 77-206]

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CALENDAR OF EVENTS

CORROSION—Two programs of the National Association of Corrosion Engineers: Corrosion Prevention By Cathodic Protection and Corrosion Prevention by Coatings; *September 10-15* in Dallas, Texas, and *September 24-29* in Houston, Texas.

INSULATION CONTRACTORS ASSOCIATIONS/FALL MEETINGS—NYSICA, Swan Lake, New York, *September 15-17;* EASICA, Pittsburgh, Pennsylvania, *September 28-29;* CSICA, Cincinnati, Ohio, *October 1-3;* SEICA, Waynesville, North Carolina, *October 15-17;* WICA (Convention), Maui, Hawaii, *October 18-21;* MICA, Omaha, Nebraska, *October 25-26.*

AMERICAN MEDICAL ASSOCIATION—38th Annual Congress on Occupational Health; University of Arizona, Tucson, Arizona, *September 14-16.*

EXPORT WEEK—Three Courses presented by the American Management Associations at the Americana Hotel, New York City: Financing Export Sales, *September 18-19;* Marketing For Export, *September 20-21;* Export Documentation, *September 22.*

OCCUPATIONAL HEALTH—Joint Conference and Annual Meetings of the American Academy of Occupational Medicine and the American Academy of Industrial Hygiene; Williamsburg, Virginia, *September 19-22.*

OCCUPATIONAL HEALTH—International Congress sponsored by the Permanent Commission and the International Association on Occupational Health; Zagreb, Yugoslavia, *September 25-30.*

INDUSTRIAL TOXICOLOGY—Seminar conducted by the American Industrial Hygiene Association; Marriott Hotel, Saddle Brook, New Jersey, *September 27-28.*

SEPARATION, FILTRATION AND DUST CONTROL—1978 International Exposition; O'Hare Trade and Exposition Center, Rosemont, Illinois, *September 26-28.*

ASBESTOS TEXTILE INSTITUTE, INC.—1978 Annual Meeting; Kiawah Island Inn, Kiawah Island, South Carolina, *October 4-6.*

PRESENT AND FUTURE MINERAL EXPLOITATION DEVELOPMENTS—Meeting of the Institution of Mining and Metallurgy; Camborne, England, *October 5-6.*

INTERNATIONAL MINING SHOW—An undertaking of the American Mining Congress; Convention Center, Las Vegas, Nevada, *October 9-12.*

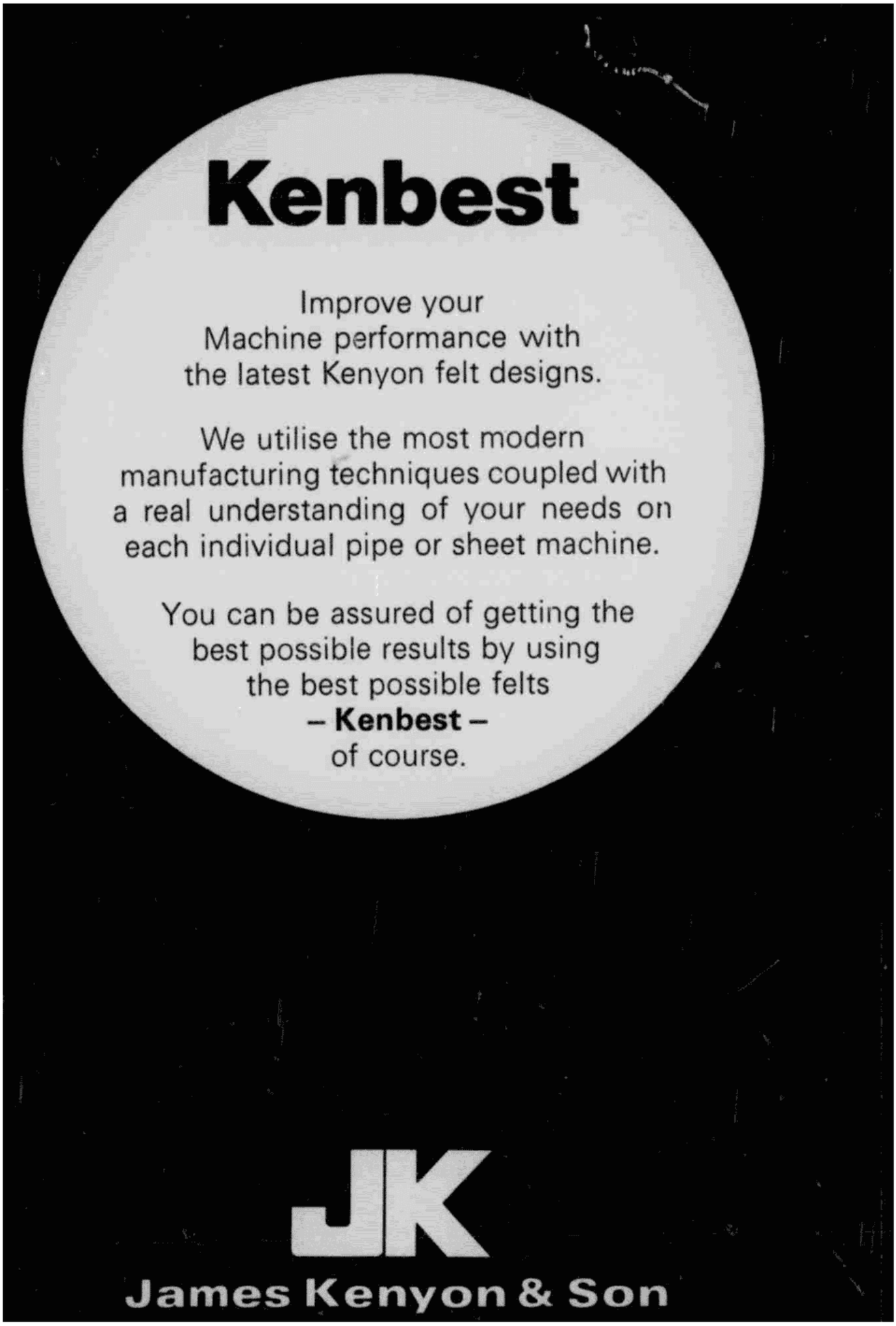
ENVIRONMENTAL HEALTH—1978 Exhibition organized by The Brintex Group; The Pavilion, Bournemouth, England, *October 24-26.*

UNION INTERNATIONALE DES LABORATOIRES INDEPENDANTS—9th General Assembly and Symposium on Safety and Industry; Bath, Avon, England, *October 30-November 2.*

3/TECNOMIN—11th Pacific International Trade Fair of Equipment and Machinery for the Mining Industry; Lima, Peru, *November 3-12.*

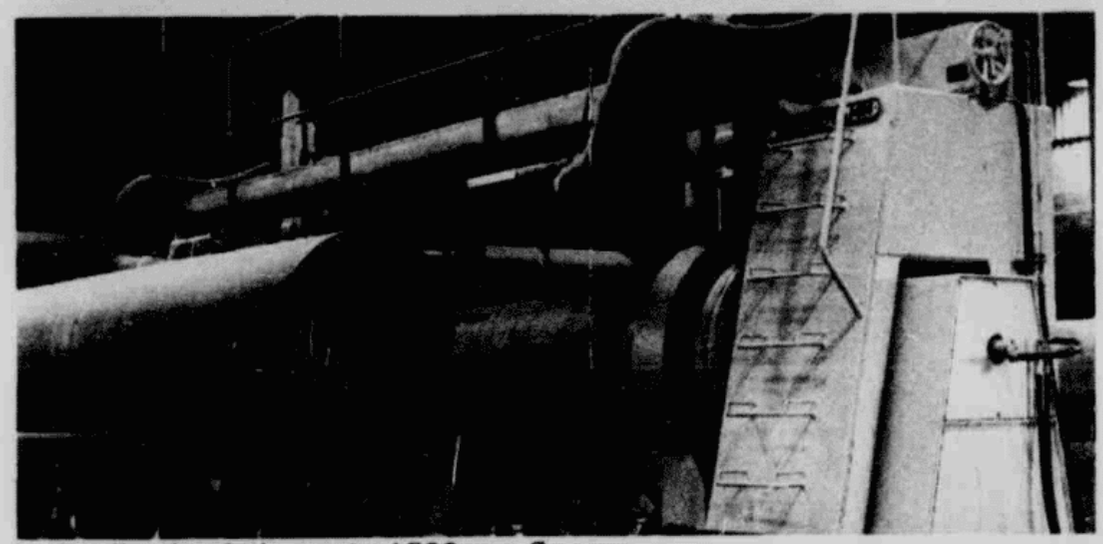
MATERIALS TECHNOLOLGY—5th Inter-American Conference sponsored by the U.S. National Bureau of Standards, the Southwest Research Institute, and others; Sao Paulo, Brazil, *November 5-10.*

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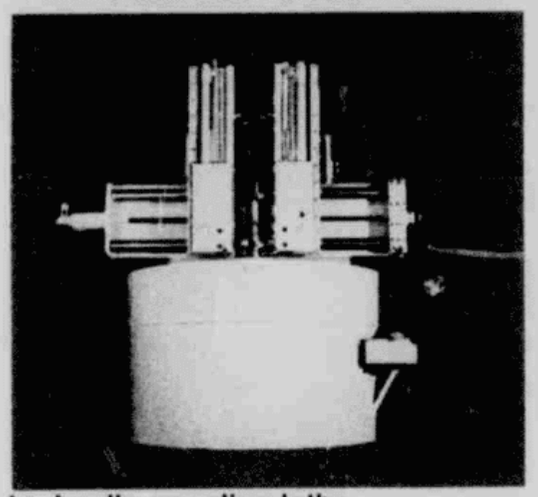


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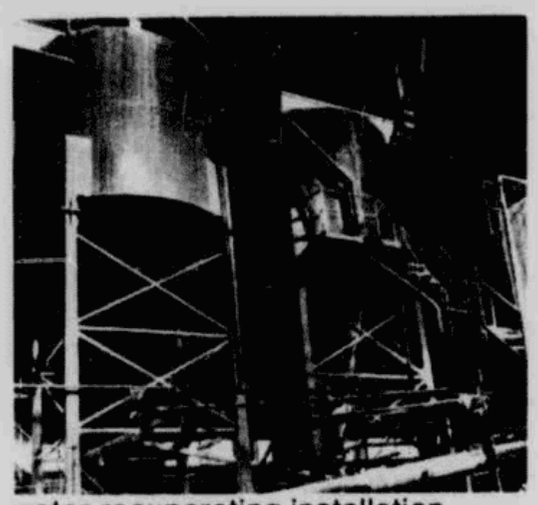
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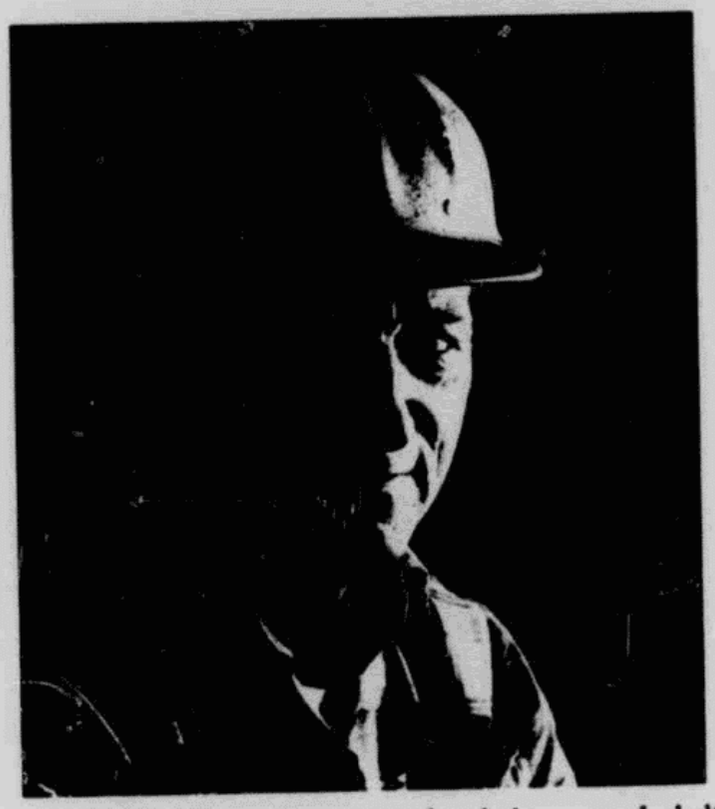
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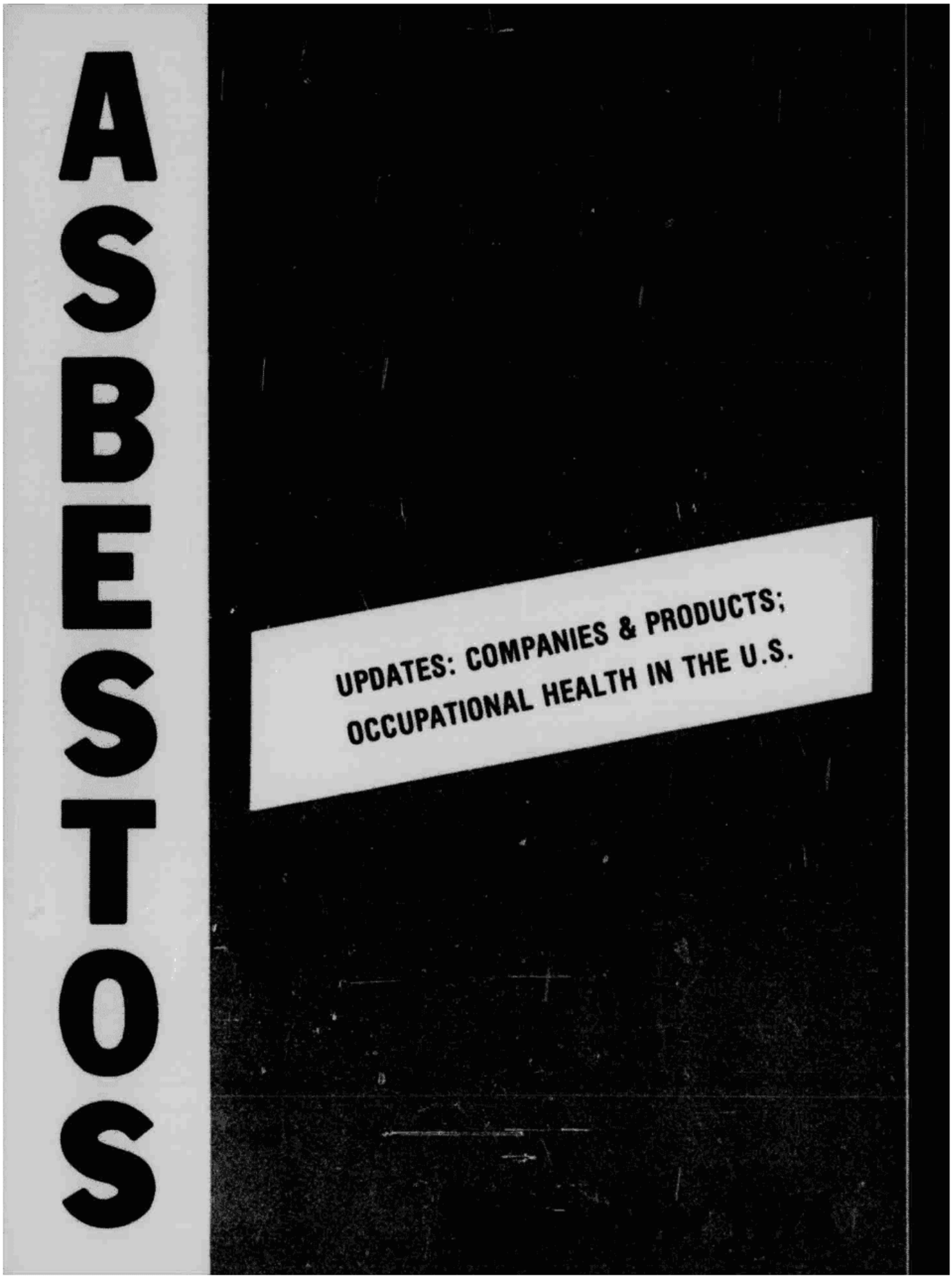
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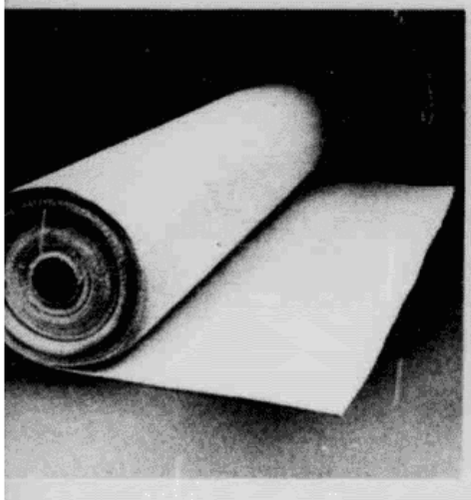
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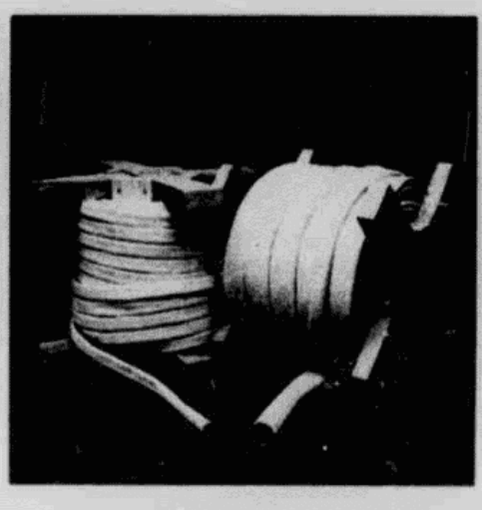
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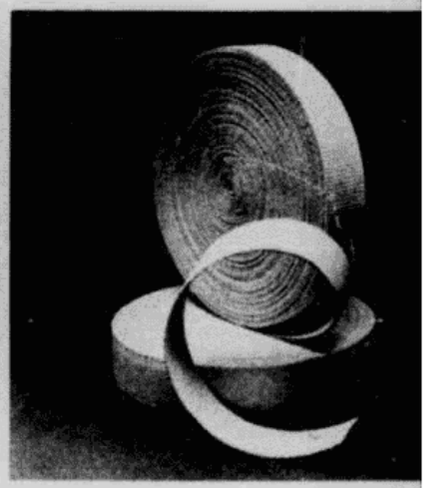
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