(ISSN 0004-4237)

ASBESTOS

devoted to the
International Asbestos Industry

—Featuring—
ASBESTOS/OCCUPATIONAL HEALTH
AND RELATED MATTERS

October 1980

We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

We want our customers to continue taking advantage of the unique properties of asbestos. Too often, their ability to do so is hindered by decisions based on emotion rather than factual information. So we're calmly and repeatedly explaining the facts about asbestos-containing products in a series of full page, four-color ads, appearing regularly in the industrial edition of *Business Week.*

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. And once "locked in," the release of asbestos into the environment will not be significant during normal product use.

Our investment in advertising is not nearly as large as that directed toward developing safer ways to ship, handle, and use asbestos. But in many ways, it's equally important. We think it's part of our job as the world's leading producer of asbestos. And part of our continuing commitment to the future of asbestos.

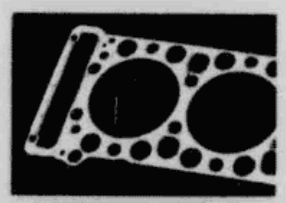
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Asbestos is not a problem when used properly.

It's locked-in to all of these products.

In thousands of finished products, asbestos serves an essential function that has not been duplicated on a cost performance basis. Like other naturally-occurring minerals, asbestos can be a potential health hazard when inhaled. However, with technological advances and established work practices, along with industry and Federal regulations, it can be safely processed, transported, and handled. In addition, there are virtually no hazards associated with the proper end use of products in which the asbestos fibers have been encapsulated or "locked-in" by environmentally safe binders. For this reason, we advocate the elimination of its use in friable products in which it cannot be safely bound. As the world's leading asbestos supplier, we are vitally concerned with its safe handling and application.

For more information, please write to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, Colorado 80217.



Gasketing materials made by blending asbestos with elastomeric binders are used in a variety of high temperature, high pressure applications ranging from automotive gaskets to industrial steam lines.



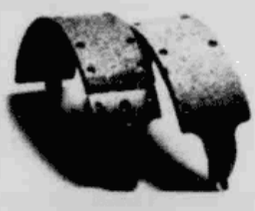
Smooth bore, corrosion resistant pipes utilize asbestos locked into cement to improve water and waste-handling systems throughout the world



Encapsulated in with varying amounts of polymers, elastomers, or asphalt, asbestos is a major constituent in specialty papers used in commercial roofing felt, pipeline wrapping felt, sheet-goods flooring, and gasketing.



Asbestos is added to cement to form these lightweight, durable, fire resistant building panels.

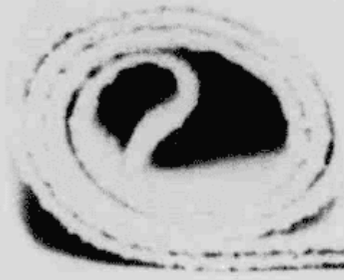


Because of its thermal resistance, reinforcing properties, and contribution to frictional properties, asbestos plays a major role in truck and automotive brake linings. In this application, the fibers are locked-in with phenolic resin binders.

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ASBESTOS

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U.S. OCCUPATIONAL HEALTH ISSUES

TOBACCO COMPANIES SUED

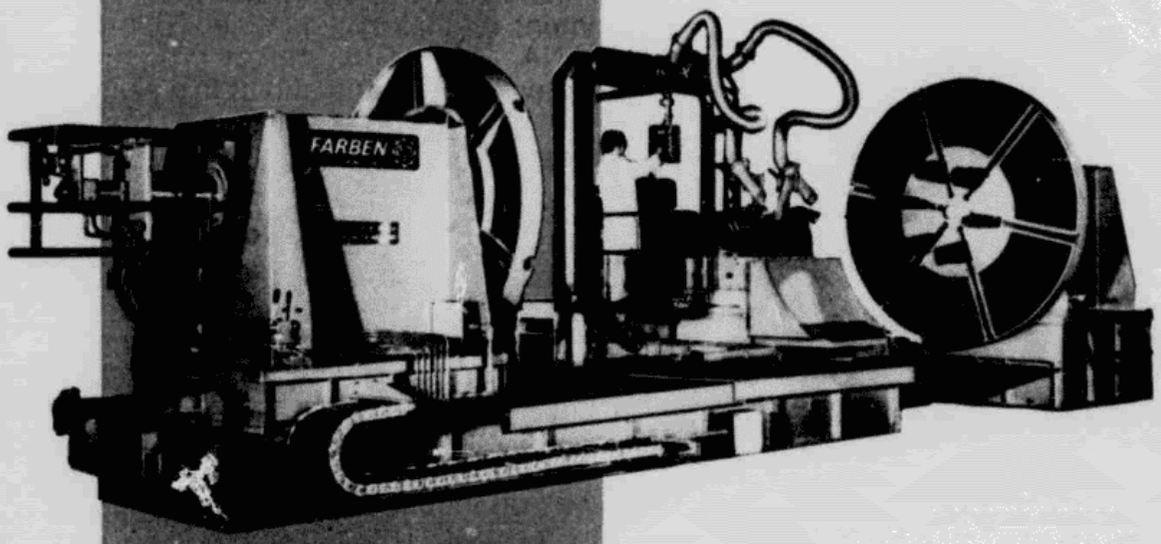
Standard Asbestos Manufacturing and Insulation Company, Kansas City, Missouri, has *sued six major tobacco companies* in a landmark lawsuit which claims that smoking, and not asbestos, is the primary cause of lung disease among asbestos workers. The cross-complaints were filed in some ten cases in California involving a large number of asbestos workers seeking damages for occupational disease. The action is an attempt to bring the tobacco industry into existing lawsuits, thereby letting a jury decide what portion, if any, of damages the tobacco industry must pay. There are over 8000 lawsuits pending against the asbestos industry in the U.S., 25% of which are in California. In many cases, asbestos companies are paying for damages actually caused by smoking. Quoting from an editorial which appeared in the American Journal of Public Health, coauthored by Dr. Paul Kotin and Lois Ann Gaul, of Johns-Manville, Dr. Kotin concluded: "From all the data now available, there can be no doubt that elimination of smoking in certain occupational settings would significantly reduce disease occurrence in the workplace."

AIA/NA INDUSTRY-GOVERNMENT CONFERENCE

A record of nearly 200 people was recorded for attendance at the *Fifth Industry-Government Conference,* held last month in conjunction with the Tenth Annual Meeting of the *Asbestos Information Association/North America.* A variety of topics pertaining to asbestos were discussed by the delegates as they listened to presentations by panelists and individual speakers representing government, industry and the news media. *John A. McKinney, Chairman of the Board of Johns-Manville Corporation* stated there is considerably more evidence available which supports the safety of the 2f/cc exposure level. He further said that the Asbestos Industry will not be put out of business by regulation but more likely by the propensity of lawyers and government making unsupported rash statements to the news media. *Robert L. Jennings, Jr., a Special Assistant to OSHA Administrator Eula Bingham,* urged Mr. McKinney to produce evidence that the 2f/cc limitation is safe, commenting that he knew of no study where a population exposed to below the 2-fiber level has been followed for 30-40 years. Without such documented evidence, he said, OSHA faces an extremely complex decision as to what the public health response should be. Mr. Jennings also advised that OSHA is in the final stages of preparing an advance notice of proposed rulemaking and hopes to propose a new standard sometime in 1981, hopefully

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covering construction as well as general industry. *Maurice E. Taschereau, President of Asbestos Corporation Ltd.*, supported the statements of Mr. McKinney, saying that reliable medical evidence does exist to support the fact that the 2f/cc level poses a zero risk. He called for responsible leadership on the part of U.S. agencies for the rest of the free world. Concerning alternative materials, Mr. Taschereau contended that the chemical industry has a vested interest in providing substitutes for asbestos and is leading politicians and journalists to believe that safe substitutes already exist. *Matthew M. Swetonic, of Hill and Knowlton, Inc.*, suggested the Industry have well-founded documents and information readily available to respond, immediately, to inaccurate or misleading statements which appear in the news media. He also indicated that credible goals should be established between the Asbestos Industry and government regulatory agencies. [Bob J. Pigg, Executive Director of AIA/NA, advises that the full Proceedings of the conference should be available by the end of this year.]

OSHA BENZENE STANDARD DISAPPROVED

In an important decision handed down in July, the U.S. Supreme Court upheld, by a 5-4 majority, a lower court decision *invalidating the OSHA benzene standard*. The lead opinion held that the OSHAct required the agency to determine, before issuing any permanent standard, that the regulation is reasonably necessary and appropriate to remedy a significant risk of material health impairment. The Court disapproved the benzene standard because, in its view, OSHA failed to make the threshold determination. OSHA's position that there is no safe level of exposure to a carcinogen and that the burden was on industry to show there is a safe level of exposure was flatly rejected. The decision is likely to have far-reaching impact on all government programs to control carcinogens. It casts doubt on the validity of OSHA's generic cancer policy issued January 1980 and more than likely places on OSHA the burden of showing a significant risk of harm at the present 2f/cc standard before promulgating a lower exposure limit for asbestos. OSHA Administrator Bingham told reporters in September that because of the benzene decision, the agency may look for legal means to require that all data on a hazardous substance is submitted to OSHA during a rulemaking.

EPA WASTE DISPOSAL REGULATIONS

The *Asbestos Information Association/North America* submitted comments to the *U.S. Environmental Protection Agency*, urging the *removal of asbestos from the list of hazardous wastes,*

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New. The Durafab BestoShield Coverall.



A low cost disp[illegible]ver[illegible]specially designed for protection a[illegible]st asbesto[illegible]and other carcinogens.

Durafab's BestoShield coveralls have outstanding barrier qualities because they're made of DuPont's Tyvek™, a spun-bonded olefin with a Frazier Air Permeability of .01.

The BestoShield coverall can help reduce the health hazards in asbestos mining, shipyards, boiler rooms, insulation work, or any place where asbestos or other carcinogens are involved.

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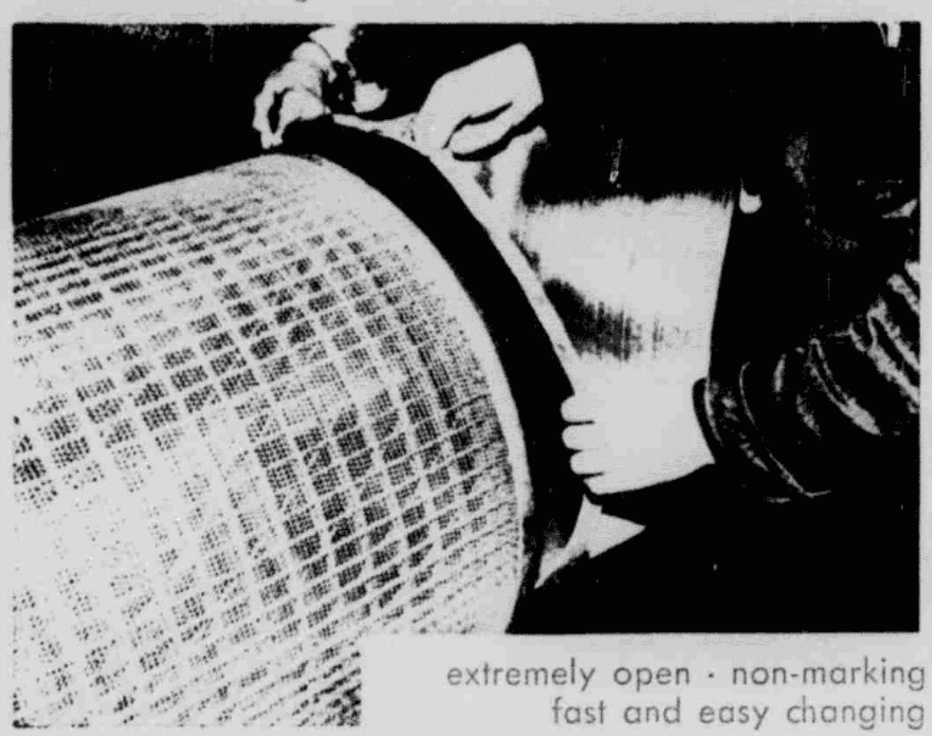
promulgated May 19, 1980, pursuant to the Resource Conservation and Recovery Act of 1976. Although the rule is considered final, the status of certain sections, including that portion in which asbestos is listed as hazardous waste, has been denoted interim-final and EPA is taking comment on those sections. AIA/NA pointed out that asbestos is already regulated under the Clean Air Act, pursuant to which EPA has promulgated National Emission Standards for Hazardous Air Pollutants (NESHAPS) that regulate the disposal of asbestos waste. To superimpose upon this structure a new set of hazardous waste regulations, said the Association, would be unnecessarily duplicative and burdensome. Should the present regulation of asbestos waste disposal be found wanting in any respect, it could be remedied selectively through amendments to applicable NESHAPS rather than through wholesale application of the RCRA waste management system. Also noted was the fact that asbestos was not listed as hazardous waste in RCRA regulations when those were proposed in the Federal Register of December 18, 1978. Accordingly, interested parties had inadequate time to assess the impact of the complex regulations or to submit comments as the rulings were developed. Asbestos is included as hazardous waste only as a "pure" material. Hazardous waste regulations do not apply to waste material which merely contains asbestos. Furthermore, a 1000 kg/month per plant "small quantity generator" exemption applies to the category of substances in which asbestos is listed. The entire rulemaking becomes effective November 19, 1980.

MORE HAIR DRYERS RECALLED

Last month, the *U.S. Consumer Product Safety Commission* announced that more than *87,000 additional hair dryers were being recalled* because they were manufactured with asbestos. The majority of the dryers are professional hand-held models sold for use in barber shops and hair salons. The recalls were conducted voluntarily by four companies, including K-Mart Corporation, Rolf Brauchli, Inc., Nino Originals and Select Beauty Brands, Inc. In its flyer titled "Asbestos Facts 5," Johns-Manville Corporation writes that a review of scientific evidence clearly demonstrated that hairdryers with asbestos-containing papers posed no health hazard to consumers as far as asbestos exposure was concerned, and a recall was not necessary. As recorded in the original research study made public over a year-and-a-half ago (but not reported in perspective), the emission of asbestos from hairdryers was almost non-existent. The finding was verified by a study conducted by the Canadian Department of National Health and Welfare, undertaken because of the hairdryer scare in the U.S.

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DUST COLLECTION & CONTROL

AIR FILTRATION BY AIROMAX

Product literature which illustrates its expanded line of *air filtration systems* designed to clean dirty, particulate-laden air at industrial plants, auto body shops, schools and textile mills is now available from *Airomax Corporation*, Gibbstown, New Jersey. New filter elements are described and complete listings of uses, specifications and electrical requirements are presented including new 3500 CFM sizes for use with plenums, NIOSH hoods, flexible ducts, counterbalanced arms and mobile stands for direct capture of locally generated smoke, mists and fumes. In addition to air cleaning systems, Airomax has a *new gauge for monitoring filters* to provide quick assessment of filter saturation, to warn of imminent need for change and to register filter ruptures and/or clogs.

CLEANTRON CHARGERS

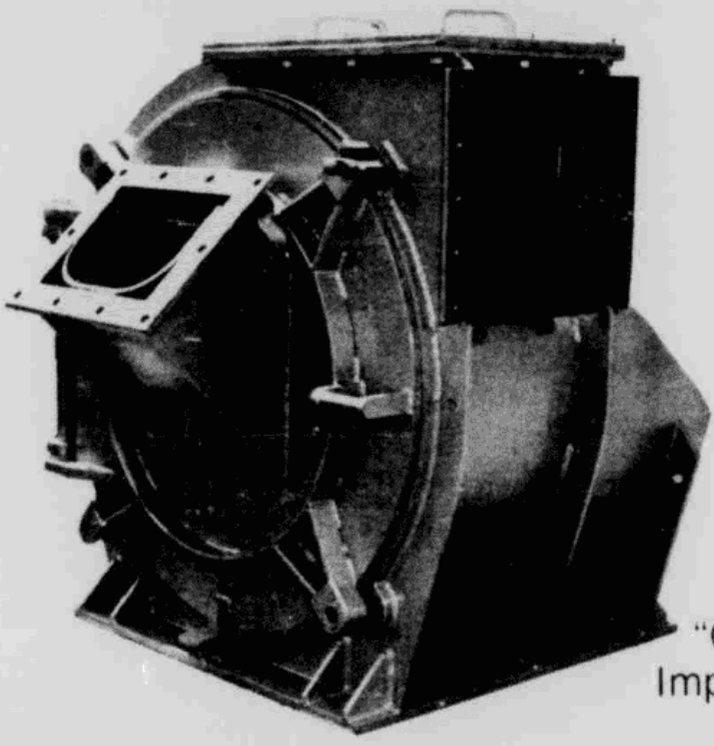
A unique, high-capacity *electronic air cleaner* is now available from *Cleantron*, Loretto, Minnesota, a subsidiary of Chemtool, Inc. The *Charger 4400* recirculates 4400 cubic feet of air per minute while effectively removing air contaminants as small as .01 micron. Patented features include a dual ionization process which provides a greater particulate charge at lower energy levels, specially designed collection panels for effective collection and isolated electric insulators which are protected from excessive dirt buildup during use. . . . Also developed by Cleantron are two types of *maintenance robots* for in-place washing of its line of electronic air cleaners. *Washtron Model 22/44 Charger* is a portable, cart-mounted washing unit which contains water tank and heater, detergent, waste tank and timer. *Washtron Model 60* is a stationary, fully-automatic washing system which may be pre-set to wash multiple Charger air cleaners at any convenient time period.

ULTRAVAC & ULTRAJET UNITS FROM D P WAY

D P Way Corporation, Chicago, Illinois, recently announced an entirely new line of heavy duty machines—a departure from separate engine drives for applications requiring more than 100 brake horsepower. The *HS Series Ultravac industrial vacuum loaders* feature heavy-duty collection bodies that can hold up to 20 cubic yards of dry material, 18 cubic yards in the main body and 2 cubic

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We have been designing and manufacturing asbestos benefication plants and equipment for all types of asbestos for over twenty five years... thus we must have something to offer you.



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yards in the baghouse, or 3000 gallons of wet material. Four separate filtration modes permit complete separation of dry filtration from wet, plus individual control over right and left filter banks. . . . Another new product from D P Way is the *Ultrajet HP-4 high-pressure water system.* The unit is fully enclosed, safe and quiet and meets OSHA and EPA standards. Incorporated is an "energy miser" to monitor water usage and cut fuel costs and an efficient 200 HP diesel and a durable horizontal triplex pump that can deliver pressures up to 11,000 PSI and flows up to 100 GPM. All controls are centrally located for easy access.

DCE VOKES SOLVES DUST PROBLEMS

Literature recently received from *DCE Vokes Inc.*, Jefferson-town, Kentucky, describe the following systems. The company describes a unique solution to the troublesome problem of dust generated at transfer points on belt conveyors. Rather than installing a central dust collector and venting various distant dust sources to it, it is possible to enclose each transfer point and place a *DCE Vokes Insertable Dalamatic fabric filter dust collector* into the enclosure. The collector provides continuous action through pulse jet cleaning system and returns dust cake to the conveyor, thereby saving a valuable resource without high recovery costs. . . . DCE reports there are space-saving advantages when using its new six and eight-tier *Dalamatic fabric filter dust collectors.* The new versions can reduce dust collector floorspace needs by as much as 50% without reducing the units' capacities or effectiveness. The new filters actually increase the flexibility of the Dalamatic where larger filter areas are required. . . . The *DCE Unimaster dust collector* can be adapted and installed in over 500 configurations and is designed for air volumes from 300 to 2000 CFM. Filter cleaning is accomplished by motor-driven automatic shakers and flat, envelope-shaped elements allow a maximum amount of filtration area in a minimum amount of floor space. In most applications, collection efficiency allows the recirculation of cleaned air to the workplace. Full-width filter and fan compartment doors ease maintenance and inspection. The entire filter assembly slides out simply by loosening four wing nuts. For fast and clean removal of collected dust, a quick-release mechanism frees the bucket-shaped dust container.

ELTRON PLANT PRECIPITATORS

A 16-page brochure is available from *Eltron Manufacturing Inc.*, Bellmawr, New Jersey, which describes the company's complete line of *industrial plant precipitators* that collect particulate

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contaminants with high efficiency, eliminating most hazardous smokes, mists, fogs, fumes and dusts. Illustrated are standard models with capacities from 600 to 15,000 CFM, plus other units to handle up to 84,000 CFM. Custom-built systems for larger airflows can be arranged.

THE GRIFFIN DEBAGGING STATION

Griffin Environmental Company, Inc., Baldwinsville, New York, introduced the Dustless *Debagger*, a new type of debagging station for users of powders and bulk solids. The unit is both a fast, efficient debagger plus a complete dust control system. Small and compact in size (3′ x 3′ x 6′ 3″), it is made of 12-gauge, continuously-welded construction and can be portable. Bags are split in half when dropped on a recessed grating containing a row of knives. Bag material falls into a hopper and lighter, airborne particles are drawn upwards and collected on the inside of cotton sateen bags. Clean air is discharged through a blower exhaust.

MICRO-TROL DUST ARRESTORS

Through the development of a regenerative HEPA filter cell, users are now able to upgrade present baghouse systems and comply with emission standards with the installation of a *MICRO-TROL dust arrestor* after an existing baghouse, according to *Multi-Fab Inc.*, Harrison, New Jersey. The arrestors have a minimum efficiency of 99.97% at 0.3 micron and approach 99.97% on submicron size particles. Filter discharge air can, in most cases, be recirculated back into the work area for energy savings. Module design allows flexibility to fit most requirements of installations.

MOBILE VACUUM LOADER FROM NFE

Hi-Vacmobile is a self-propelled, self-powered vacuum loader from *NFE International Ltd.*, Palatine, Illinois, designed for heavy-duty cleanup and material recovery in industrial facilities. Pickup capacity is up to 5 tons per hour; conveying distance is up to 150 feet. A patented 3-stage separation system allows liquids to be vacuumed at the same time as dry materials, without switching between a wet or dry mode. The 4′ 10″ unit can be driven to the cleanup and dump site where 20 cubic feet of material is discharged through a rear gate.

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PERSONAL PROTECTIVE APPARATUS

DEL-MONOX AIR PURIFIERS

Deltech Engineering, Inc., New Castle, Delaware, has released Product Bulletin 200L on its line of *Del-Monox compressed air purifiers* for supplied-air and self-contained breathing systems. Pointing out the safety, productivity and cost factors involved in providing a supply of safe, clean compressed breathing air, the literature describes three types of Del-Monox purifiers which deliver compressed air that meet OSHA Grade standards. The three types are purification systems, disposable cartridge purifiers and high-pressure purifiers.

ABANDA DISPOSABLE CLOTHING

The Unique *Abanda disposable coverall/jumpsuit* is described by *Disposables, Inc.*, Manhasset, New York, as offering full body protection for workers in hazardous job situations. Available in regular DuPont Tyvek and in special porous Tyvek, the basic coverall converts to a jumpsuit for complete protection by adding a detachable hood and boots. A drawstring on the hood is positioned to seal opening at neck, while elasticized wrists and ankles assure complete closure at extremities. . . . *Abanda disposable coveralls*, also available in Tyvek plus Kimberly-Clark Kaycel, come with either non-sparking zipper or economical snap closures. They are low in cost and tear-resistant and will withstand the destructive effects of most chemicals, acids and gases.

BESTOSHIELD COVERALLS

Durafab Inc., Cleburne, Texas, offers a *polylaminated coverall with attached hood and air supply duct* which provides a virtually air-tight barrier for jobs with high exposure to asbestos and other substances. The *BestoShield coverall* has a Frazier air permeability of less than 1 and the vinyl-faced, attached hood is sufficiently roomy to be worn over a hard hat, plus providing good visibility. The suit has elastic cuffs on the sleeves and pants and a built-in air supply inlet for use with air-source apparatus.

MSA EAR MUFFS & BREATHING DEVICES

Mine Safety Appliances Company, Pittsburgh, Pennsylvania, reports its *Noisefoe Mark IV and Mark IV MC Ear Muffs* are designed to reduce the effects of excessive noise in the workplace. The easily adjustable muffs can be worn alone or with protective

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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

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— Production of special sheets up to 9 mt length.

— Auxiliary machines for special sheet profiles.

— Complete plants with high production for pressure and sewage pipes.

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hats, welding helmets or faceshields. An open-cell urethane foam pad inside the ear cups forms an effective noise barrier and soft vinyl, foam-filled ear seals completely enclose the ears. A support band accessory is available when the headband is worn behind the head or under the chin. . . . In addition, MSA describes the *Dual-Purpose Breathing Apparatus* as combining all the capabilities of a self-contained breathing device and a supplied-air respirator in one unit. It is NIOSH and MSHA approved for use in oxygen deficient atmospheres or where dangerous concentrations of toxic gases or vapors are present. The five components of the respiratory device are a cylinder, the Ultravue facepiece, an Audi-Larm warning instrument, the Cushionaire harness and a carrying case which contains the components of the breathing apparatus.

NEW AIRSTREAM SUPPLIED AIR PRODUCTS

Racal Airstream, Inc., Rockville, Maryland, announced two versions of *Supplied Air products*, AH30 for general purposes and AH31 for welders, which provide respiratory protection against dusts, vapors, fumes and gases (including asbestos). The system utilizes the basic Airstream hardhat and faceshield, is ruggedly constructed to withstand heavy use and combines the basic Airstream concept of comfort and wearability with the convenience of supplied air. Included are a noise diffuser, a flexible air hose and an air regulating valve.

ROBAR PROTECTIVE SUIT

An inexpensive, two-piece *protective suit constructed of lightweight virgin vinyl* is now being marketed by *Robar Protective Products*, Philadelphia, Pennsylvania. The suit, Model R8100, is 100% waterproof, non-conductive and non-corrosive. It resists cracking, peeling and oxidation and will not easily tear or rip at the seams.

UVEX CHEMICAL GOGGLE

Uvex chemical goggle #9305 combines outstanding safety protection with attractive styling, according to *Uvex Winter Optical, Inc.*, Smithfield, Rhode Island. A flexible, contoured frame permits a snug fit and recessed slots reduce pressure on temples when worn over eyeglasses. The goggle is completely washable and features a wide headband for extra comfort. Change of lens is easy and a safety splash drain system has baffled vents which let air in but keep liquids out. A coating on the inside of the lens absorbs condensation and eliminates fogging.

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ANALYSIS/TESTING/SAMPLING/COUNTING

DUKE ASBESTOS FIBER STANDARDS KIT

Duke Scientific Corporation, Palo Alto, California, has announced a new *kit of asbestos fiber standards* which includes prepared microscope slides and sample vials of the five major kinds of asbestos fibers used in commerce and industry. The materials in the kit have been analyzed for size, distribution, chemical composition, optical properties and effect of reagents. About 60% of the fibers are in the respirable and injectible size range.

MICROTRAC PARTICLE-SIZE ANALYZER

The MICROTRAC Division of Leeds and Northrup, Largo, Florida, has introduced the first *sub-micron particle sizing instrument* specifically designed for rugged industrial quality control environments. Designated *Model 7991-3,* this analyzer provides 14 channels of distribution data for particles in a size range from 0.1 to 20 microns. It is a practical instrument for simple, precise measurement of dry powders or wet slurries of all types for either on-line or laboratory applications.

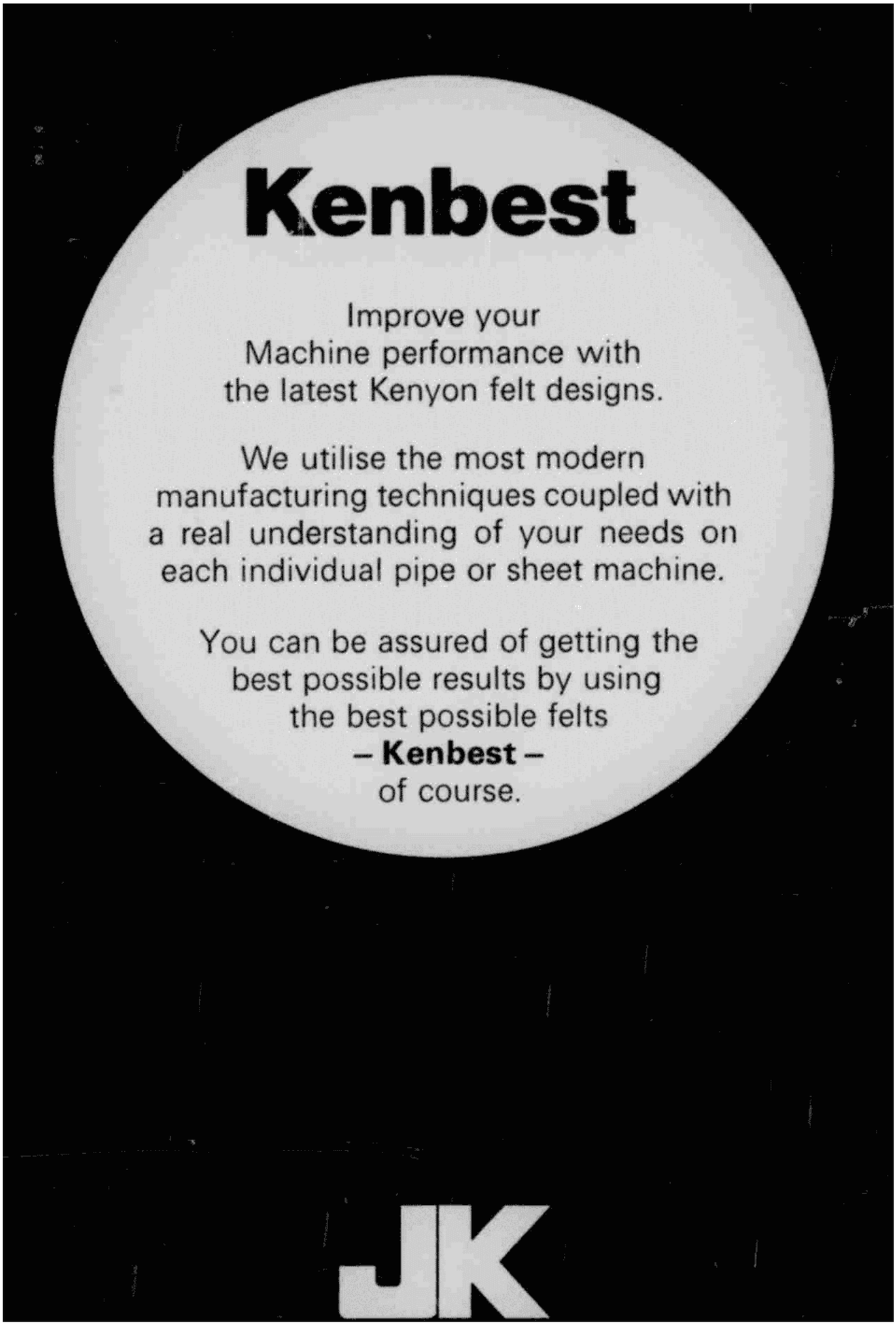
STAPLEX AIR SAMPLERS

The Air Sampler Division of The Staplex Company, Brooklyn, New York, advised that its Models BN and BS self-charging, battery *air samplers* are designed for *portable, low-volume, particulate sampling,* either indoor or outdoor, where electrical power is not available or convenient. The units can sample particles as small as .01 micron at a rate of 15 liters per minute (0.5 CFM). Also, Staplex recently published a *brochure* which describes its *Models TFIA and TFIA-2* line-powered and *Model TFIA-4* battery-powered *high volume particulate air samplers.*

VICKERS RAPID FIBER COUNTER

A *rapid fiber counter* specifically developed to accurately measure the *level of asbestos dust in industrial environments* is now available from *Vickers Instruments,* York, England. The M88 counter consists of a modified standard Vickers MI7 microscope which allows collimated beams of light to be directed onto prepared membrane filter specimens. A single operator can accurately count up to 100 membrane filter asbestos samples per day without eye strain and with minimum fatigue. The counter has been demonstrated to operate in the range 0.05 to 10 fibers, per ml of air, under typical sampling conditions.

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BOOKS: DUST/SAMPLING/HANDLING

SOURCEBOOK ON ASBESTOS DISEASES—By G. A. Peters and B. J. Peters; a compendium of practical information on the medical, legal and engineering aspects of the mineral; gives comprehensive information on: the hazards, risks and clinical symptoms of asbestos diseases; material properties and substitutes, historical development of asbestos standards and their current deficiencies; precautions and engineering controls; the legal actions and 38 defenses to asbestos lawsuits; clinical symptoms and evidence important for expert testimony; also lists international suppliers, trade associations, trade names, producers and processors; includes uses for asbestos in such areas as fire resistance, insulation, reinforcement, acid resistance, filtering, fillers, cohesion, etc.; contains a questionnaire for physicians, lawyers and researchers and a chronological bibliography of 3,200 scientific publications. [$46.00 per copy in the United States; $50.60 to All Other Countries; published by Garland STPM Press; order through ASBESTOS Magazine]

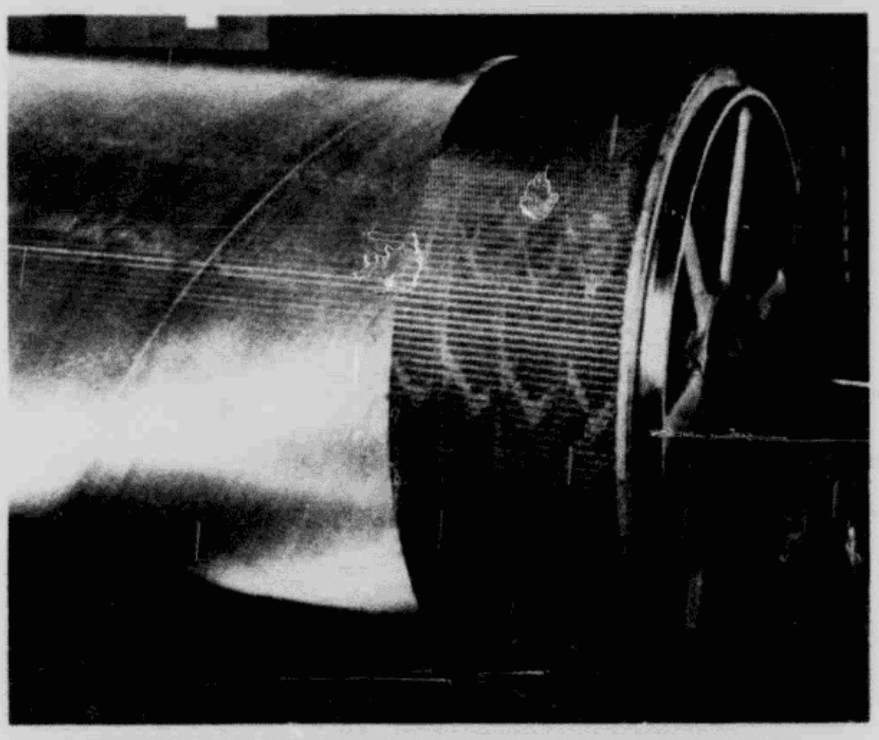
ASBESTOS/FEDERAL AND STATE REGULATIONS: CHANGE I—Looseleaf sheets incorporating all federal and state revisions to regulations affecting asbestos in the United States since the original publication was issued in 1978. [Available from the Asbestos Information Association/North America, 1745 Jefferson Davis Highway, Arlington, Virginia 22202]

RECOMMENDED WORK PRACTICES FOR FIELD FABRICATION OF ASBESTOS-CEMENT SHEET—Booklet describes and illustrates field-tested procedures to assist engineers, superintendents, contractors, foremen and crews to understand procedures for safer handling and fabrication of asbestos-cement sheet products; the work practices recommended will maintain dust levels below OSHA allowable ceiling concentrations. [$1.00 per copy; available from the Asbestos Information Association/North America, address as above]

THE CONTROL OF ASBESTOS DUST—Covers the recommended control procedures particularly for countries where no statutory regulations exist; the illustrated brochure deals with asbestos as a substance, the whole area of asbestos and health, takes a look at the standards of concentration and measurement and the prevention of risks; prevention is divided into both technical and personal and information is provided on waste disposal and medical supervision. [A free copy is obtainable from the Asbestos Internnational Association, 68 Gloucester Place, London W1H 3HL, England.]

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REFERENCE METHOD FOR THE DETERMINATION OF AIRBORNE ASBESTOS FIBER CONCENTRATIONS AT WORKPLACES BY LIGHT MICROSCOPY (MEMBRANE FILTER METHOD)—Describes equipment and procedures required for sampling and sample evaluation, necessary to assess personal exposure and the control of occupational environments to airborne fibers which are known to be predominantly asbestos; emphasizes that in mixed dust situations, the presence of other fibers and fiber-like particles may interfere with counting accuracy. [Recommended Technical Method No. 1; available from the Asbestos International Association, address as above]

ASBESTOS CEMENT PRODUCTS—Describes the recommended procedure to follow for the control of dust in the use of asbestos-cement building materials and their ancillaries; lists the products involved, gives basic requirements and covers suitable equipment, waste disposal and the operations to which the recommendations may apply. [Recommended Control Procedure No. 2; available from the Asbestos International Association, address as above]

ASBESTOS WASTE MATERIALS—Gives recommended procedures for handling and disposing of asbestos waste; however, says the document, one should not overlook the most effective and economic method of control, that is, the avoidance of waste; some types of asbestos waste can be recycled or can provide raw material for a different product; the creation of waste may be minimized by improved production techniques. [Recommended Control Procedure No. 3; available from the Asbestos International Association, address as above]

ASBESTOS FIBERS: PACKAGING, HANDLING AND TRANSPORTATION—Covers the handling during loading and unloading consignments of asbestos fiber at port or other dispatch or receiving depot, storage on ship, road vehicle or railway wagon, transport between mine and point of ultimate consumption, storage and disposal; main sections deal with basic requirements, initial packing of fiber, packaging for consignment (pallets, Marino slings, plastic covers and "big bags" and "tank trucks"), transportation (closed vehicles and alternatives), warehousing, bag repair and bag opening, disposal of packing materials, grinding, melting, recycling and bagging. [Recommended Control Procedure No. 4; available from the Asbestos International Association, address as above.]

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MARKET CONDITIONS

GENERAL BUSINESS

In August the Index of Leading Economic Indicators registered its third consecutive monthly gain, employment and hours worked both showed improvement and unemployment dipped slightly causing some economists to conclude that the recession had bottomed and recovery had begun in July. While there is reason to believe the economic slide is *nearing* a bottom, there is a long way to go before a sustainable recovery will get underway, in the opinion of most observers.

One of the most forbidding obstacles to a quick turnaround is the recent sharp rise in interest rates. At the end of September the prime rate stood at 13½%, some banks had raised their mortgage rates to 14% and short-term Treasury Bills were yielding over 11½%, the highest return since April. While consumer spending has improved slightly, there is little hope for substantial gains from that source since installment debt is still extremely high, disposable personal income continues to slide and savings rates are declining. The general picture in capital goods remains spotty and, while sales in some sectors have improved, most recent figures show a sharp drop in sales of machine tools occurred in August. In the absence of some completely unexpected change in the situation, it now appears the bottoming process will not be completed much before the end of the year and recovery from that point will probably be quite slow.

Up to the present, the effect of the recession on inflation has been negligible. Consumer prices, led by the prices of foodstuffs, rose about 0.7% in August and the producer price index gained about double that amount in the same month. It remains to be seen whether prolongation of the recession will produce any more significant gains in the battle against inflation.

On the international front, hostilities between Iraq and Iran pose a threat to world peace and to the economies of those industrialized nations which depend on an uninterrupted supply of oil from the areas involved. While much pressure is being exerted on both adversaries for a negotiated settlement, fighting continues as this is written. It can only be hoped that the conflict can be confined to the two countries presently involved and that a cease-fire can be promptly effected.

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In this country, the Presidential campaign is starting to heat up. Polls indicate the race is very close at this point but there is no telling what effect some domestic or international development could have on the outcome which will be known in the very near future.

ASBESTOS FIBER

Unofficial figures show Canadian shipments of asbestos for the first half of 1980 were 603,275 metric tonnes versus 716,499 tonnes for the first six months of 1979—a decrease of 16% from the previous like period. Part of the decrease was due to work stoppage at several of the Quebec producers in the first quarter of the year.

Demand for Group 7 in the U.S. market picked up slightly in the third quarter due to the end of the recession in some segments of the economy. The demand for friction material grades has strengthened due to a pick up in the replacement and industrial markets.

The international market shows some weakness in demand because of a recession in some of the European countries.

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Complete plants for the production of asbestos cement pipes and asbestos cement sheets

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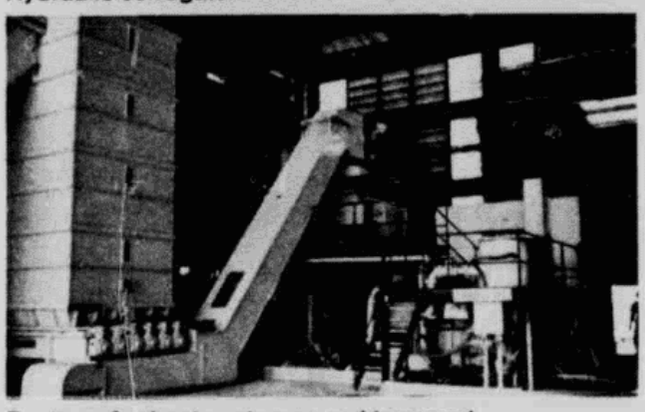
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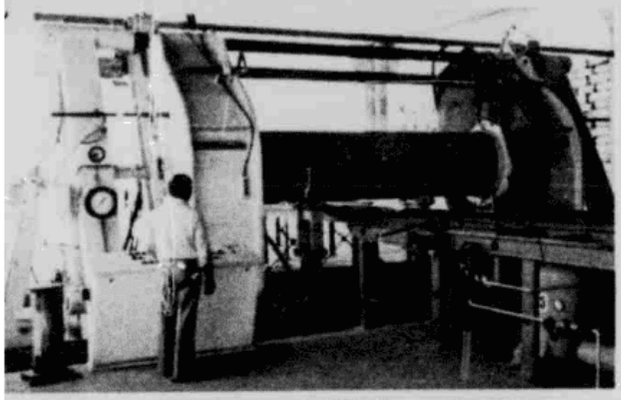


Dustproof asbestos storage and transport

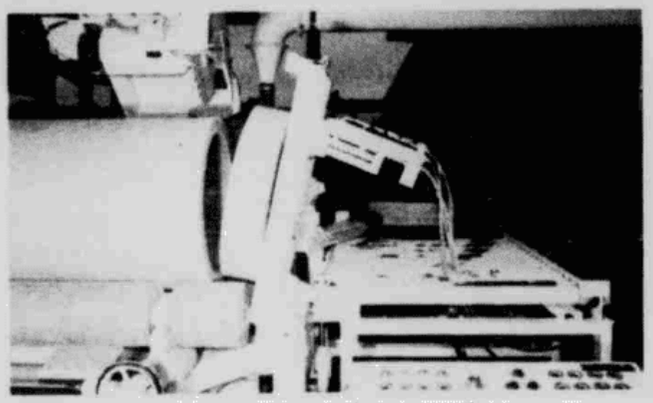
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Automatic coupling cutting and -transport

for asbestos-cement machinery!

PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

			JUNE 1980	
UNMANUFACTURED ASBESTOS:				
Crocidolite, South Africa	s.tons	715	$	493,233
Chrysotile Spinning Fibers, Canada	s.tons	226		183,655
Rhodesia	s.tons	20		20,778
Chrysotile, Other, Brazil	s.tons	23		2,421
Canada	s.tons	14,124		3,309,883
Yemen	s.tons	46		12,454
Other Crudes & Fibers, Canada	s.tons	924		213,897
Mexico	s.tons	1		1,750
Rhodesia	s.tons	52		52,143
South Africa	s.tons	316		171,990
		16,447	$	4,462,204
MANUFACTURED ASBESTOS PRODUCTS:				
Asbestos yarn, cloth, tape, etc.	Lb	856,251	$	1,220,032
A-C pipes, tubes & fittings	Lb	794,760		104,901
Other asbestos-cement articles	Lb	4,220,384		795,654
Other asbestos articles		..		461,267
			$	2,581,854

			JANUARY-JUNE 1980	
UNMANUFACTURED ASBESTOS:				
Amosite, South Africa	s.tons	115	$	151,902
Crocidolite, Canada	s.tons	57		11,672
South Africa	s.tons	7,755		4,903,943
Chrysotile Crudes, Rhodesia	s.tons	22		29,592
Chrysotile Spinning Fibers, Canada	s.tons	3,240		2,436,000
Rhodesia	s.tons	542		515,325
South Africa	s.tons	298		253,455
Chrysotile, Other, Brazil	s.tons	23		2,421
Canada	s.tons	187,248		43,777,434
Germany, Fed. Rep.	s.tons	21		2,368
Mexico	s.tons	27		783
South Africa	s.tons	758		432,262
Yemen	s.tons	46		12,454
Other Crudes & Fibers, Canada	s.tons	5,021		1,335,434
Germany, Fed. Rep.	s.tons	21		28,280
India	s.tons	46		13,890
Japan	s.tons	13		4,440
Mexico	s.tons	2		3,500
Rhodesia	s.tons	152		153,313
South Africa	s.tons	1,292		819,665
United Kingdom	s.tons	1		712
		206,700		$54,888,845

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U.S. IMPORTS—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	4,058,842	$ 6,681,058
A-C pipes, tubes & fittings	Lb	4,498,220	653,154
Other asbestos-cement articles	Lb	32,712,736	6,036,279
Other asbestos articles			3,032,814
			$16,403,305

January-June 1979: U.S. imports of unmanufactured asbestos totaled 315,263 short tons, valued at $76,300,315; imports of manufactured asbestos products were valued at $15,945,666.

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 83,665 metric tonnes in *July 1980* compared with 96,813 tonnes in the seventh month a year earlier. Cumulative total for *January-July 1980* was 685,138 tonnes: 582,866 tonnes from plants in Quebec and 102,272 tonnes from plants in Newfoundland and British Columbia. Total shipments for the first seven months of 1979 were 812,516 tonnes: 719,968 tonnes from Quebec plants and 92,548 tonnes from the remaining operations. [Canadian Department of Energy, Mines and Resources]

SOUTH AFRICAN PRODUCTION & EXPORTS

Asbestos *production* for the *Year 1979* totaled 249,187 metric tonnes, against 257,325 tonnes in the prior year (down 3%). Breakdown for the latest year is: 118,301 tonnes of Cape Crocidolite (down 14.5), 91,828 tonnes of Chrysotile (up 15.5%), 39,058 tonnes of Amosite (down 3.7%) and no Transvaal Crocidolite vs. 117 tonnes in the year 1978. . . . *Exports* in the *Year 1979* were valued at R101,281,952 (down 5.8%). By variety of asbestos, the values for the year 1979 were: Cape Crocidolite—R67,607,156 (down 3.3%), Amosite—R17,075,523 (down 25%) and Chrysotile—R16,599,273 (up 11%). [South African Department of Mines]

"ASBESTOS BULLETIN"

Keeps you abreast of all developments. Each issue contains about 100 abstracts relating to the manufacture of asbestos-based products. Special chapters on asbestos mining, asbestos-cement, asbestos textiles, friction, building, plastics, sealing, coating and insulating materials, asbestos-substitutes, health and precautions. Annual subscription US$59.00; back copies half price. Order from:

ASTEX PUBLISHING COMPANY
22/23 North Street, Guildford, Surrey, England

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TAIWAN PRODUCTION & IMPORTS

The Republic of China (Taiwan) *produced* 1,202 metric tonnes of asbestos in the *First Half of 1980*, mostly the Tremolite and Actinolite varieties. Production for the like 1979 period was 1,303 tonnes. . . . *Imports* of asbestos into Taiwan totaled 10,002 tonnes compared with 13,857 tonnes a year earlier. [Taiwan Ministry of Economic Affairs]

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

			JUNE 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	3,832	$ 1,691,658
Asbestos sand & refuse	s.tons	1,487	417,086
		5,319	$ 2,108,744
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	756,190	$ 971,733
Asbestos-Cement shingles & clapboard	Lb	860,175	362,850
Other asbestos-cement articles	Lb	2,146,271	816,304
Asbestos gaskets	Lb	90,812	430,929
Asbestos packings & seals	Lb	207,199	1,098,582
Asbestos insulation		..	570,315
Brake linings & disc brake pads		..	4,194,126
Clutch facings & linings		..	581,914
Other asbestos articles		..	2,200,347
			$11,227,100

			JANUARY-JUNE 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	19,048	$ 8,168,216
Asbestos sand & refuse	s.tons	7,493	2,305,920
		26,541	$10,474,136
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	2,483,929	$ 4,180,779
Asbestos-Cement shingles & clapboard	Lb	6,550,309	1,581,482
Other asbestos-cement articles	Lb	15,209,033	5,032,859
Asbestos gaskets	Lb	530,649	1,769,475
Asbestos packings & seals	Lb	2,289,221	7,691,596
Asbestos insulation		..	3,402,951
Brake linings & disc brake pads		..	27,636,460
Clutch facings & linings		..	5,948,273
Other asbestos articles		..	15,132,571
			$72,376,446

January-June 1979: U.S. exports of unmanufactured asbestos reached 19,061 short tons, valued at $6,834,089; exports of manufactured asbestos products were valued at $72,374,039.

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EXPORTS FROM CANADA

From: Statistics Canada

JUNE 1980

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	678	20,183	11,751
Eastern Europe	..	273	3,253	238
Middle East	..	..	40	5
Africa	..	21	2,530	1,395
Asia	..	1,070	26,875	17,354
Oceania	..	..	4,034	114
So. & Cen. America & Antilles	..	94	9,625	6,540
United States	..	241	2,347	13,011
	..	2,377	68,887	50,408

The total amount of unmanufactured asbestos exported in *June 1980* was 121,672 short tons (112,196 metric tonnes), valued at C$66,170,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 467,000
Asbestos brake linings & facings	137,000
Asbestos-Cement building materials	1,294,000
Other basic asbestos products	731,000
	C$ 2,629,000

The following accumulative data include new figures for May 1980, as revised by Statistics Canada.

JANUARY-JUNE 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	2,550	117,957	78,533
Eastern Europe	..	1,459	8,183	1,019
Middle East	..	100	3,059	335
Africa	..	21	10,308	5,731
Asia	..	1,841	63,978	69,376
Oceania	..	5	11,239	695
So. & Cen. America & Antilles	..	697	36,589	25,240
United States	..	2,247	38,895	160,602
	..	8,920	290,208	341,531

The total amount of unmanufactured asbestos exported in *January-June 1980* was 640,659 short tons (581,196 metric tonnes), valued at C$280,223,000.

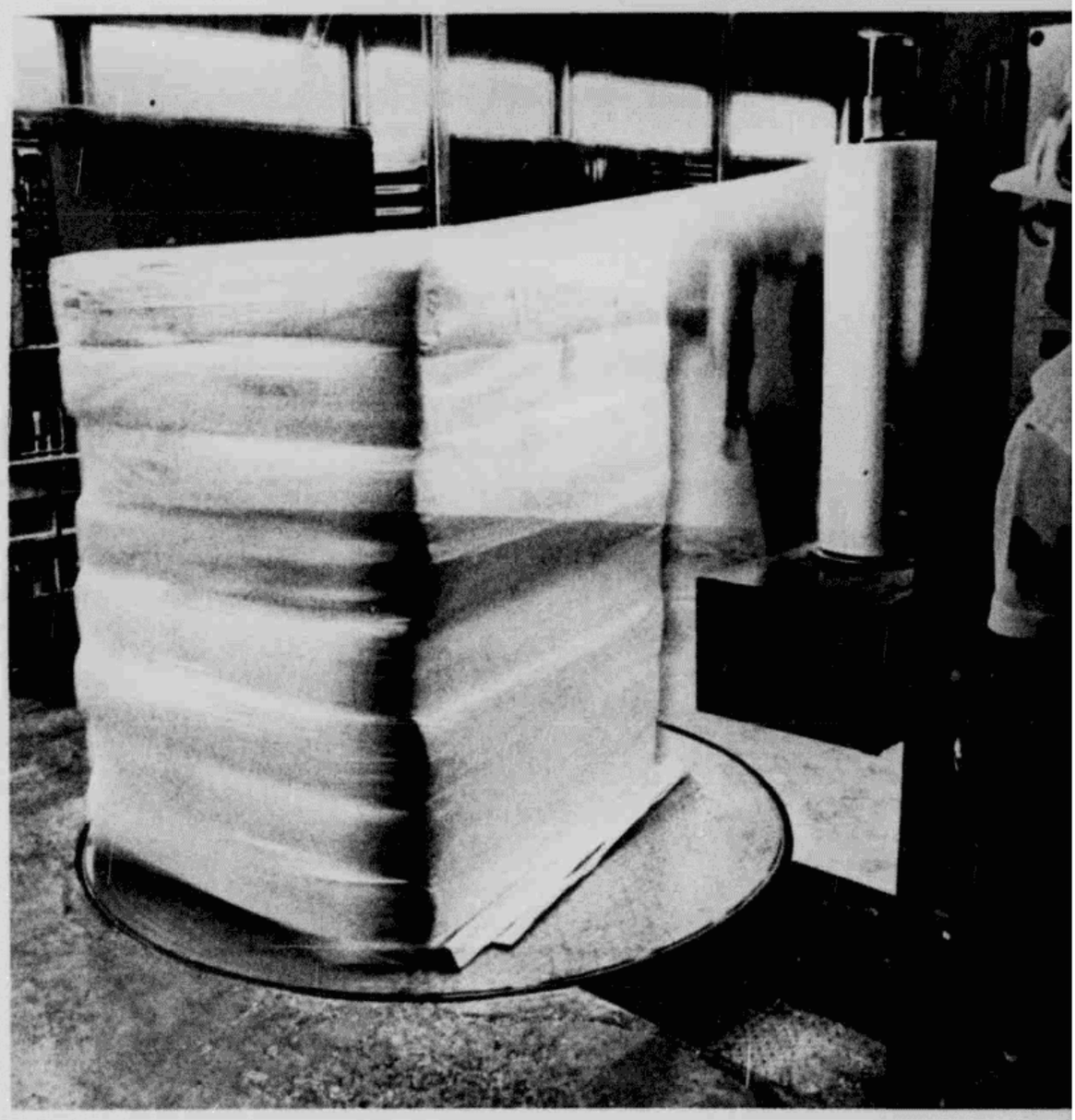
MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 2,381,000
Asbestos brake linings & facings	1,577,000
Asbestos-Cement building materials	9,417,000
Other basic asbestos products	6,667,000
	C$20,042,000

January-June 1979: Canadian exports of unmanufactured asbestos totaled 790,390 short tons (717,025 metric tonnes), valued at C$296,264,000; exports of manufactured asbestos products were valued at C$15,562,000.

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Stretch protects against and related



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wrapping broken bags dust problems.



Lac d'Amiante du Québec, Ltée 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:

- During car loading and unloading.
- During transit.
- In storage and in-plant handling.

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 LAQ's concern for its customers and the environment. For details contact Lac d'Amiante du Québec, Ltée, P.O. Box 608, Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

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CURRENT ASBESTOS PRICES

QUOTED FROM COMPANY PRICE LISTS

ASBESTOS CORPORATION

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

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

Grades 3Z to 3F spinning fiber	$1125 to $1750
Grades 4T to 4A asbestos cement fiber	846 to 1102
Grades 5R to 5D paper fiber	530 to 626
Grade 6D paper and shingle fiber	380
Grades 7TS to 7D shorts	122 to 233

CASSIAR RESOURCES

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

AS OF JANUARY 1, 1980

CANADIAN DOLLARS

AAA	nonferrous spinning fiber; Canadian Group 3	$2000
AA	nonferrous spinning fiber; Canadian Group 3	1600
A	nonferrous spinning fiber; Canadian Group 3	1150
AC	nonferrous spinning fiber; Canadian Group 3	1050
AK	asbestos cement fiber; Canadian Group 4	975
AS	asbestos cement fiber; Canadian Group 4	900
AX	asbestos cement fiber; Canadian Group 4	825
AY	asbestos cement fiber; Canadian Group 5	575
AZ	asbestos cement fiber; Canadian Group 6	375

Specialty grades AK100, AS100, AX100 and AY120 are increased an additional $25.00 per ton above list price of base grade.

VERMONT

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

AS OF JULY 1, 1980

U.S. DOLLARS

Grade 3Z fiber	$ 996
Grade 4D fiber	760
Grade 4T fiber	661
Grade 5K fiber	512
Grade 5R fiber	434
Grade 6D waste	318
Grade 7D shorts	205
Grade 7M shorts	117
Grade 7R shorts	108
Hooker No. 1	1460
Hooker No. 2	840

CALIDRIA ASBESTOS

PER TON OF 2000 lbs., F.O.B. KING CITY, CALIFORNIA

AS OF JANUARY 2, 1980

U.S. DOLLARS

SG-103	pellets in bags	vinyl-asbestos floor tile	$ 122
SG-104	pellets in bulk	vinyl-asbestos floor tile	106
SG-130	open fiber in bags	general	170
SG-200	pellets in bags	rubber tile	160
SG-210	open fiber in bags	general	220
HPP	pellets in bags	rubber reinforcement	204
HPO	open fiber in bags	asphalt	220
RG-110	open fiber in bags	roofing	240
RG-144	open fiber in bags	resin viscosity control	560
RG-244	open fiber in bags	resin viscosity control	2500

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ASBESTOS PRICES—CONTINUED

CALAVERAS ASBESTOS

PER TON OF 2000 LBS., F.O.B. COPPEROPOLIS, CALIFORNIA

AS OF JANUARY 1, 1980

	U.S. DOLLARS
Grade 4T surface area 6000	$ 661
Grade 5R surface area 8000	434
Grade 6D surface area 8000	318
Grade 7R surface area 10000	115

ARIZONA

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

AS OF JULY 1, 1976

	U.S. DOLLARS
No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 nonferrous filtering—plastic	$ 750 to 840
Group No. 4 nonferrous filtering—plastic	750 to 840
Group No. 7 white shorts	100 to 200

BRAZIL

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

AS OF APRIL 1980

		BRAZILIAN CRUZEIRO $
Grades	4Z to 4K asbestos cement fiber	$17778 to $19952
Grades	5D to 5R asbestos cement fiber	7991 10935
Grade	7TF asbestos cement shorts	3157
Grade	8S shorts	1493

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JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOYKO (JAPAN); GENEVA (SWITZERLAND)

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THE ASBESTOS MINING SCENE

ASBESTOS CORPORATION/LAYOFF & QUEBEC ELECTION

It was announced last month that *Asbestos Corporation Ltd. would lay off 115 employees* on October 1 at its three mines in the Eastern Townships of Quebec. The action was attributed to the current recession, the aftermath of a 12-week strike by 1,500 employees last spring, a declining market for asbestos because of publicity concerning the asbestos/health situation, and the loss of a major European customer. Eternit S.A., of Belgium, which once bought almost 20% of Asbestos Corporation's production, has changed to another supplier.

Quebec Premier Rene Levesque is expected to call a provincial election for mid-November, and political analysts in Montreal are betting that the Parti Quebecois' stormy reign will be ended. The Quebec Liberal Party, led by Claude Ryan, a former Montreal newspaper editor, is favored to form the next government. A Ryan administration would not favor intervention of government in private industry and is expected to adopt a more pro-business posture than the Parti Quebecois. According to a Montreal District Assemblyman, Mr. Ryan would not pursue the Parti Quebecois' objective of expropriating Asbestos Corporation.

LAKE ASBESTOS BEAUTIFIES AREA

Lac d'Amiante du Quebec Ltee has planted pine and spruce saplings to cover a waste dump at Black Lake, Quebec. Several tests of grass sowing have been carried out, an operation made difficult by the very nature of the soil which is mostly sterile stone. Having obtained good results on a few acres of land, a hydraulic sowing truck has been developed to spread a mixture of grass, weeds, clover, mulch and fertilizers on the terrain. The program, which requires major investments and continuous work, provides for the covering, within 20 years, of a total of 145 acres. [QAMA Bulletin]

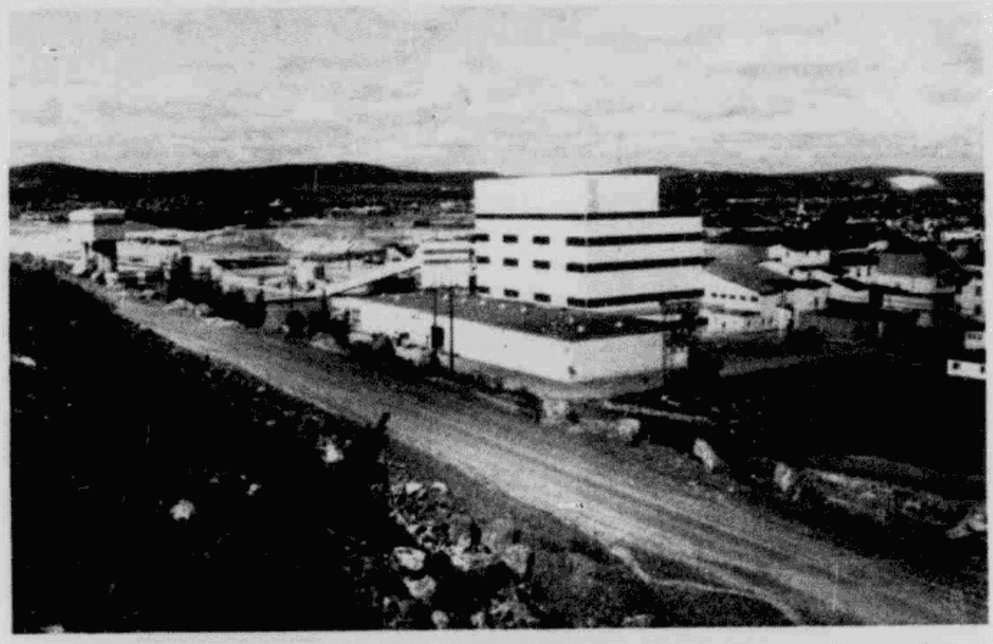
BRINCO MATTERS

In August, *Brinco Ltd.*, Toronto, Ontario, announced it had signed an *agreement with the major shareholders of Cassiar Resources Ltd.*, Vancouver, British Columbia, for an option on approximately 59% of Cassiar's outstanding stock, including 23.4% held by *Turner & Newall Ltd.*, Manchester, England. The option is conditional upon Brinco receiving an opinion under the Foreign investment Review Act that it will become a Canadian-controlled company if *Olympia & York Developments Ltd.* assumes control. O&Y is a private real estate developer based in Toronto. Last month Brinco revealed details of a plan under which O&Y would acquire control, i.e., O&Y would acquire 50.1% of its voting stock, on a fully diluted basis, by purchasing about 7.3-million Brinco common from major holders and through the issue of about 7.3-million Brinco convertible preferred for C$40-million. Brinco is currently about 54% owned by *Rio Tinto-Zinc Corporation*, London, England, about 13% owned by *Bethlehem Steel Corporation*, Bethlehem, Pennsylvania, and about 7% owned by *Marubeni Corporation* and *Fuji Bank*, both of Japan.

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BELL
ASBESTOS MINES, LTD.

Producer of all grades of chrysotile asbestos fibres.



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INT. TX. NO. 05-834512 - CABLE: BELLASBEST

MINING EQUIPMENT NEWS

HERCUDET BLASTING CAP

Hercudet is the only nonelectric initiation system with circuit test capability and a hookup from hole-to-hole that is inert until charged, according to *Hercules Inc.*, Wilmington, Delaware. Hazards generally associated with the use of electric blasting caps are eliminated. A gaseous mixture is introduced to the plastic tubing only after all preparations for firing are complete. After charging, the gas mixture is ignited from a specially designed blasting machine and the reaction travels through the tubing at a rate of 8,000 feet per second to initiate the caps.

ZERO START DIESEL FUEL WARMER

Phillips Temro, Inc., Minneapolis, Minnesota, has announced the new, stainless steel *Zero Start* diesel fuel warmer. The unit, which comes with a one-million-mile performance guarantee, is for installation on diesel powered trucks to prevent waxing problems in No. 2 diesel fuel. It has no moving parts, O-rings, seals or gaskets to wear or replace. Also, there are no internal seams or welds to cause the coolant to mix with fuel.

V0099 TELEVISION REVERSING AID

Heavy plant and large vehicles, by their very nature, tend to present the driver with blind areas, particularly when maneuvering in reverse. Operational efficiency and safety could be substantially increased if these blind areas could be eliminated. The Electro-Optical Products Division of *Marconi Avionics*, Basildon, Essex, England, a GEC-Marconi Electronics Company, has announced a solution to the problem—a television camera with wide angle lens mounted on the rear of the vehicle and a small monitor in the driver's cab, the complete system being powered from the vehicle battery. Extensive development tests and proving trials by Marconi in open pit mines and quarry sites resulted in the development of special mountings and housings for the camera and the monitor and the production of unit assembly techniques which ensure excellent reliability despite the violent shock and vibration environment involved. Total power consumption, with all conditioning/demisting heaters on, is less than that of a single car headlamp.

SELF-PROPELLED AIR COMPRESSOR

Southern Iowa Manufacturing Company, Osceola, Iowa, has introduced the new Model 4000 TR-AC self-propelled, hydrostatically-driven, high-pressure air compressor. Designed primarily as a companion for the SIMCO 4000 TR-2 mineral exploration drill, the compressor can be used in other difficult access areas and any application where 300 CFM 250 PSI air is needed. The machine is powered by a BF6L913 turbo-charged, air-cooled Deutz diesel engine developing 135 continuous horsepower at 2,300 RPM.

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A
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HUXLEY DEVELOPMENT CORPORATION

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Chrysotile
Crocidolite
Amosite

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TEL: 212 581-0660
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TELEX: 420195 (ITT)
127407 (WU)

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for recovering Cylinder Moulds for SHEETS' and PIPES' production.

An outstanding feature of these endless bottom- and top-wires of stainless steel or of phosphorbronze is the most simple and quick covering of Cylinder Moulds by your people in your plant, thus meeting the insistent request for higher output.

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WANDEL
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is successfully employed in the Asbestos-Cement-Industry.
The self-supporting, robust stainless steel body
facilitates cleaning and secures long wire life. Deliverable
also with spirally wound wire instead of the bottom wire.

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PEOPLE ON THE MOVE

ASARCO INCORPORATED

Richard L. Brown, formerly Assistant Director of Exploration, has been appointed Director of Exploration for Asarco Incorporated, New York City. He joined the company in 1957 as a Mining Geologist at Wallace, Idaho, and succeeds *Thomas C. Osborne,* now Executive Vice President.

Frederick T. Graybeal was named Chief Geologist, with offices at Asarco's headquarters. He first joined the company in 1962.

Kenneth A. Koch is now Patent Counsel and head of the Patent Department, it was announced by *Alexander J. Gillespie, Jr.,* Senior Vice President, Secretary and General Counsel. Mr. Koch had served as Assistant Patent Counsel since joining Asarco in 1979.

PORTEC, INC.

Portec, Inc., announced that *James A. Miller* has resigned as Chief Executive Officer, President, Chairman of the Board and a Director. The resignation followed Mr. Miller having been convicted in Federal District Court for the misdemeanor of failure to file his personal income tax return in a timely manner. Via Board action, *Donald F. Morris,* formerly Senior Vice President-Administration and Treasurer, was elected to fill the position of President and Chief Executive Officer. *Arthur T. Woerthwein* was elected Chairman of the Board of Directors and continues as Chairman of the Executive Committee. Headquartered at Oak Brook, Illinois, Portec is a leading international manufacturer of engineered products for the railroad, construction, industrial and other capital industries.

H. K. PORTER COMPANY, INC.

George J. Peters has been appointed Vice President-Information Systems for H. K. Porter Company, Inc., Pittsburgh, Pennsylvania, its divisions and subsidiaries. He will have direct management of all facets of the company's information systems including evaluation, planning, development, implementation and maintenance. Prior business affiliations had been with Universal Cyclops and Sperry Univac.

The Thermoid Division of Porter announced the promotion of *R. Dean Hibbs* to Works Manager of the facility at Chanute, Kansas. Mr. Hibbs joined the company in 1976 and had been Manufacturing Manager at the Chanute Works. He replaces *R. D. Sigler* who was recently named General Manager of the Rubber Group.

TURNER & NEWALL LTD.

With effect from September 1, 1980, *A. H. Wailes* is now Director and General Manager of TAP Building Products Ltd., Lusaka, Zambia. He had been Marketing Director of the Pipes Division of TAC Construction Materials Ltd., Manchester, England. Both TAP and TAC are members of the Turner & Newall Group of Companies.

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ispra S.p.A.

PADERNO DUGNANO (MILAN) ✲ ITALY ✲

TELEX : 330113



The "P4" Plant in the different types is intended for the production of Asbestos-Cement special parts, and particularly for fittings for sheets and/or opened pieces. With interchangeable moulds it can make any piece

ispra

Automatic INJECTION Plants

BIRTHDAY GREETINGS to . . .

Miguel C. Leman, Sales Representative (Latin America), Asbestos Fiber Div., Johns-Manville Sales Corp., Denver, Colorado, *November 16.*

J. J. Mangan, President & Managing Director, Hedman Mines Ltd., Timmins, Ontario, Canada, *November 16.*

Aldred J. Simmons, President, Standco Industries, Inc., Houston, Texas, *November 17.*

Jean Dupere, Executive Vice President, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, *November 19.*

T. T. Austin, Managing Director, Cape Scaffolding Ltd., Watford, Hertfordshire, England, *November 23.*

Ian Ford, Director and General Manager, Scapa Textiles Ltd., Rochdale, Lancashire, England, *November 25.*

J. K. Roberts, a Director, James Hardie Industries Ltd., Sydney, New South Wales, Australia, *November 25.*

Dr. A. J. P. Sabberwal, Joint Managing Director, TAC Construction Materials Ltd., Manchester, England, *November 25.*

D. Carlsen, Superintendent, Asbestos Wharf, Cassiar Resources Ltd., North Vancouver, British Columbia, *November 26.*

R. A. Paine, Chairman-Insulation Products & Services, Building & Insulation Division, Cape Industries Ltd., London, England, *November 28.*

B. B. Stevenson, Finance Director and a Director, Cape Industries Ltd., London, England, *November 28.*

Walter A. Cooper, Manager, Environmental Communications, Johns-Manville Sales Corporation, Denver, Colorado, *November 30.*

K. Fred Netter, President, Supradur Manufacturing Corporation, New York City, *December 3.*

James F. Reis, Market Manager, Pre-Engineered Building Systems, Johns-Manville Sales Corporation, Denver, Colorado, *December 3.*

Frank S. Williams, General Sales Manager, Southern Textile Corporation, Charlotte, North Carolina, *December 3.*

D. Wendell Livingstone, Vice President and Treasurer, Johns-Manville Canada Inc., Asbestos, Quebec, *December 4.*

Irving F. Moore, President, Atlas Asbestos Company, Coalinga, California, *December 7.*

Bernd Simon, Plant Engineer, CAPCO Pipe Company, Inc., Van Buren, Arkansas, *December 7.*

Dr. Kevin Browne, Group Medical Adviser, Cape Industries Ltd., London, England, *December 8.*

Germain Masson, Director of Purchasing, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, *December 9.*

C. W. Newton, Group Managing Director, Turner & Newall Ltd., Manchester, England, *December 11.*

E. W. Shortridge, Asbestos Plant Manager, Union Carbide Corporation, Metals Division, Niagara Falls, New York, *December 12.*

Paul R. Clark, Production Superintendent, Cassiar Mine, Cassiar Resources Ltd., Cassiar, British Columbia, *December 13.*

Robert J. Clark, Civil Engineer, Cassiar Mine, Cassiar Resources Ltd., Cassiar, British Columbia, *December 13.*

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

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A NAKED BODY IS NO MATCH FOR MOLTEN 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.

Asbestos can stand up to heat that melts steel. It's the only woven material that can. Without it, our millworkers, firemen and others who work in hot places would be virtually naked.

Asbestos. We couldn't live the way we do without it.

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When life depends on it, you use asbestos.

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Represented by:
Ceamconsult S.A., Case Postale No. 52, 1211 Genève 6, Switzerland. **(FOR SPAIN)**
Manfred, Gottesmann, P.O. Box 1252, Tel-Aviv, **ISRAEL.**
Other representatives world-wide.

ANNUAL REPORTS—1979

ARMSTRONG WORLD INDUSTRIES, INC.

Upon shareholder approval at the annual meeting held April 28, 1980, *Armstrong World Industries, Inc.* is the new name for the corporation formerly known as *Armstrong Cork Company*. "Armstrong has far outgrown its original ties to cork," explained Harry A. Jensen, Company President, "and the new name will be more representative of the kind of company we have become." Almost one-quarter of the company's sales are attributable to marketing activities outside the United States. Armstrong and its affiliated companies operate over 50 manufacturing plants in seven countries and have sales offices around the globe to serve world markets.

1979 was another year of profitable growth for Armstrong with a sales increase of 7.8% and a net earnings improvement of 8% over the results of 1978. The record sales total of $1.3-billion compared with $1.2-billion in 1978. Total consolidated net earnings, also a record, amounted to $66-million, or $2.58 per share, compared with 1978 earnings of $61.1-million, or $2.36 per share. Improved performance was highlighted by a significant year-to-year favorable swing in foreign operations and substantial progress in the furniture business, as well as a record profit year in ceilings and industry products operations. Capital expenditures during 1979 totaled $56.1-million, up from a 1978 spending level of $43.7-million. A large portion of the monies was allocated to increasing production capacity and providing new equipment for innovative processes and products.

Of Armstrong's total sales volume, home improvement and refurbishing account for more than half, new residential building and commercial-institutional building account for slightly less than one-fifth each and the remainder is attributable to industrial markets.

The company operates in four reportable segments. Operations in the *Floor Coverings* segment involve the production and sale of resilient floor coverings, carpet and related installation accessories. Floor covering sales included sales of resilient floors and accessories of $482.9-million in 1979 vs. $454-million in 1978. The *Ceilings* segment involves the production and sale of mineral fiber and wood fiber ceiling products and the sale of related installation and lighting accessories. Operations in the *Furniture* area involve the production and sale of wood furniture. The *Industry and Other Products* segment includes production and sale of pipe insulation, textile mill supplies, gasketing materials, industrial adhesives and other miscellaneous products.

COLT INDUSTRIES INC.

Colt Industries Inc. had the best results in its history in 1979. Earnings were up 28% on an 18% increase in sales over 1978 and new highs were established in sales, earnings, earnings per share, new orders received and year-end backlog. Net earnings in 1979 were $111.4-million, equal to $8.40 a common share, on sales of $2.1-billion. This compares with 1978 net earnings of $87-million, equal to $6.66 a common share, on sales of

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$1.8-billion. The performance was achieved despite downturns in the automotive and housing sectors of the economy and despite the impact of an extended strike at the Burbank, California, facilities of Colt's subsidiary, Menasco Inc. In keeping with its continuing practice of judicious pruning of products and businesses and additions to productive capacity where warranted by market outlook, Colt dropped several product lines, reduced to 40% its interest in the formerly wholly-owned subsidiary, Manufacturers Fairbanks Morse, S.A., in Mexico, and made several important capital expansions.

The *Industrial and Power Equipment* segment of Colt Industries accounted for 28% of the company's 1979 sales and 33% of its operating income, with operating income up 40% on a 16% sales gain. The *Fluid Control Systems* segment contributed 17% of total company sales and 22% of operating income, the latter up 3% on a 15% gain in sales. The *Materials* business accounted for 38% of total sales and 25% of operating income. Operating income was up 34% over 1978 on a 22% increase in sales. Colt's *Industrial Seals and Components* industry segment accounted for 14% of total sales and 17% of operating income, the latter a 25% increase on a 21% increase in sales. The Garlock Mechanical Packing Division had an excellent year, with strong worldwide demand for its compression packing, gasketing and gasketing materials, Klozure seals and hydraulic and construction products. Market acceptance and sales of such new products as Gylon seals and Thermo-sil heat-resistant fabric and of existing products improved with such new materials as Kevlar and carbon fibers were greatly expanded. The Garlock Oil Seal Division achieved modest sales growth despite the downturn in the overseas operation. Oil seal sales benefited from the trend to small cars and from the division's skills in problem-solving designs and applications. The *Shock Mitigation Systems* industry segment accounted for 5% of the company's total sales and 3% of operating income. Operating income for this business was down 53% while sales increased 15%.

GAF CORPORATION

In 1979, sales of GAF Corporation from continuing businesses were $1,213-million compared with $1,063-million the previous year. Income from continuing operations was $28.2-million or $1.83 per share primary, against $30.4-million or $2.01 per share in 1978. In 1979, *chemical* sales worldwide rose to $301.4-million from $248.8-million and direct operating profits climbed from $50.6-million to $64.5-million. *Photo & Repro* sales were up to $320.2-million from $280.8-million but direct operating profits slipped from $11.7-million to $10.1-million. Worldwide sales of GAF *building materials* increased to $591.6-million from $533.7-million and direct operating profits were $25.3-million vs. $39.5-million.

Total international sales of GAF products to customers around the world were $274.3-million in 1979 compared with $216.7-million in 1978, an increase of almost 27%. International profits rose 14%.

Earnings for all three sales groupings were hurt by rising costs of raw materials and energy. Other items affecting company earnings included tax changes, capitalization of interest on construction projects and com-

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prehensive foreign exchange effects. The overall effect of these was a negative swing of about $3-million or 22¢ per share.

Most raw material costs increased in 1979, led by asphalt, a petroleum product, which rose more than 25%. GAF is taking steps to reduce the amount required to make shingles and built-up roofing, without sacrificing quality. Key among these is the shift to glass-mat-based roofing. To improve energy use, GAF is studying a new way of saturating felt, helped by a grant from the U.S. Department of Energy. If implemented, nationally, the new methods could save billions of Btu's a year. In 1979, new installations to make GAF Timberline shingles were completed and Vanguard vinyl siding sales were up from 1978 levels. GAF furthered its program of developing a complete system of built-up roofing for the commercial/industrial market, to enable builders to buy all elements of a complete roof from one source. The company phased out Stratalite mineral siding in 1979, with a consequent $15-million sales reduction. Sales of automotive mastics and sound-deadening paddings were off substantially from 1978. Sales of sheet vinyl and vinyl tile were ahead but operating profits from sheet vinyl flooring were lower. Gains in sales and profits were achieved in floor tile and flooring felt.

GAF expanded its research and development department in 1979, with increased staffing and funding. In keeping with corporate goals of optimizing the uses of price-sensitive raw materials, much of the 1979 effort was directed at developing substitute materials and creating products that do more with less. One example: A number of new gasketing sheet products, including non-asbestos types, were developed for automotive applications.

UNION CARBIDE CORPORATION

With consolidated sales of more than $9-billion in 1979, Union Carbide Corporation ranked among the 25 largest industrial companies in the United States and among the 50 largest in the world. Its diversified portfolio of businesses included operations in five industry segments. International operations contributed about one-third of total sales. At year-end, Union Carbide's approximately 171,000 stockholders owned over 66-million shares. The year 1979 was an excellent one for the company, as sales and net income rose to record levels. Worldwide sales for the year were $9.18-billion, an increase of 17% over 1978. Net income of $556.2-million marked a 41% increase over 1978. Gross margin as a percent of sales in 1979 was 29.3%, a slight improvement over the margin of 29.1% in 1978.

Chemicals & Plastics is the largest business segment for UCC, comprising 37% of sales and operating profit. Sales were $3,348-million, up 15%, and operating profit rose 28% to $396-million. *Gases & Related Products*—Sales were $1,432-million, an increase of 13% over 1978. Worldwide operating profit decreased 5% from that of 1978, to $158-million, largely because of reduced reported U.S. dollar earnings from Brazil, the result of severe inflation and currency effects in that country. *Metals & Carbons* businesses comprise mineral products together with commodity and specialty alloy products. The majority of sales are domestic, with Western Europe the most important international market. Sales reached $1,772-million, an increase of 25% over those of 1978.

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Dramatic improvement took place in operating profit, which rose 61% to $267-million. *Batteries, Home & Automotive Products*—UCC is the world's leading producer of each of the principal consumer products of this business segment. Sales advanced to $1,599-million, up 18%, and operating profit increased 10% to $195-million. *Specialty Products*—Sales of this segment contribute the smallest proportion to total corporate sales, but have passed the billion dollar mark for the first time, increasing 11% over those of 1978, to $1,026-million. Operating profit broke through the flat performance of the past three years, rising 17% to $56-million.

Speaking about *economic competitiveness*, the company states it will continue to urge Government to adopt the kinds of tax and regulatory policy that will serve to stimulate capital investment and investment in research and development. UCC believes that such investment is the key to an expanding economy and increased employment and is an essential element of any economic policy which hopes to reverse the trend toward declining productivity. Falling behind overseas competitors in productivity, said the company, will only exacerbate inflation, put further pressure on the dollar and balance of payments deficit and cause U.S. exports to be less competitive in both developed and developing countries around the world.

ASBESTOS STOCK QUOTATIONS

CLOSE: SEPTEMBER 16, 1980

Abitibi Asbestos	C$1.00
Advocate Mines	C$1.60
Armstrong World Ind.	16¼
Armstrong (pfd 3.75)	34
Asarco	48¾
Asbestos Corporation	C$30.75
Bendix	50
Bendix (pfd)	45¼
Carlisle	55¼
Cassiar Asbestos	C$14.50
CertainTeed	15¼
Charter Conso	pence 248
Colt Industries	46½
Colt Ind. (pfd 1.60)	35¼
Colt Ind (pfd 4.25)	95
Conwest A	C$7.50
Conwest B	C$5.50
GAF Corporation	13⅛
GAF (pfd 1.20)	16½
Genstar	37
Genstar (pfd 1.68)	33
Gulf & Western	20½
G&W (pfd 2.50)	52
G&W (pfd 3.87)	119
G&W (pfd 5.75)	62
IC Industries	31⅝
IC Ind. (pfd 3.50)	47½
Johns-Manville	24⅝
J-M (pfd 5.40)	47
Kennecott Copper	32¼
Lear Siegler	29¾
Lear Siegler (pfd 2.25)	71½
McAdam Mining	C$.67
National Gypsum	24⅞
Pathfinder	C$.51
Porter, H. K. (pfd 5.50)	70⅛
Raybestos-Manhattan	26½
Rio Algom	C$33.375
Rio Algom (pfd 5.80)	C$55.75
Supradur	Bid 6½; Asked 7
*Union Carbide	46⅜
United Asbestos	C$7.125
Walter, Jim	32⅞
Walter, Jim (pfd 1)	10
Walter, Jim (pfd 1.60)	35½
*Transpacific Asbestos	C$.55

*Formerly: Woodsreef Minerals

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VALUABLE LITERATURE

ORDERS FOR THE FOLLOWING MAY BE PLACED THROUGH ASBESTOS MAGAZINE. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY OCTOBER 1980 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

BUILDING MATERIALS FROM SOLID WASTES 1979—Edited by O. S. Renfroe; examines the feasibility of utilizing products available from industrial, mining and municipal wastes for residential and commercial building construction. [275 pages; $36.00; Noyes Data Corporation]

COMMERCIAL OPPORTUNITIES FOR ADVANCED COMPOSITES—A. A. Watts, Editor; investigates the commercial opportunities for advanced composites and identifies technical areas where additional information and technology are required for commercial products; gives a comprehensive review of reinforcement and matrix materials, fabrication processes for composite materials and structures, properties of composite materials, cost of composite materials, commercial applications of composite materials and possible barriers to the use of composite materials. [133 pages; $13.50; American Society for Testing and Materials]

TAXATION FOR SMALL BUSINESS—By Marc Lane; a comprehensive strategy-packed guide for reducing taxes and improving profits; discusses comparative advantages of alternative business forms, ideas on using capital transactions for the most beneficial tax effects, hints on making investments that lessen taxes and tax-free transactions. [256 pages; $15.95; John Wiley & Sons, Inc.]

BUSINESS ORGANIZATIONS AND AGENCIES DIRECTORY—1st edition, edited by A. T. Kruzas & R. C. Thomas; guide to organizations and agencies which are major sources of current information on American business and industry; arranged in 26 sections, each devoted to a specific type of organization or agency; some foreign organizations are listed, especially in the sections on Trade Fairs and Trade Centers. [896 pages; $72.00; Gale Research Company]

ENCYCLOPEDIA OF BUSINESS INFORMATION SOURCES—4th edition, edited by P. Wasserman, C. Georgi and J. Woy; some 20,000 entries are arranged under 1,300 subject specialties; entries provide details on live and print sources; commercially available on-line data bases are covered; a complete citation is provided for each source mentioned, including the address of the publisher, place of publication, price, etc. [782 pages; $72.00; Gale Research Company]

ACQUISITIONS UNDER THE HART-SCOTT-RODINO ANTITRUST IMPROVEMENTS ACT—An authoritative treatise written by practicing antitrust and corporate specialists designed to guide the reader through the maze of laws and regulations; analyzes the legislative and administrative history of the Act, rules, prior drafts and public comments; examines each rule for hidden meanings and, most importantly, analyzes specific types of transactions to show how the rules apply. [751 pages; $60.00; Law Journal Seminars-Press]

JOYNER'S GUIDE TO OFFICIAL WASHINGTON FOR DOING BUSINESS OVERSEAS—By N. T. Joyner, Jr., and J. Durham; lists over 8,000 products, minerals and agricultural commodities; contains six directories which include regional specialists and official contacts who can provide information about business with specific countries and regions. [350 pages; $95.00; Pergamon Press]

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CALENDAR OF EVENTS

GROUND CONTROL—Professional development seminar at McGill University, Montreal, Quebec, *November 10-14* (field trip, *November 16-20*).

MINE HEALTH AND SAFETY—6th institute of the U.S. Mine Safety and Health Administration; Colorado School of Mines, Golden, Colorado, *November 12-14.*

ELECTROTECHNOLOGY IN METAL/NON-METAL MINING—Conference sponsored by the University of Nevada-Reno and the U.S. Bureau of Mines; Reno, Nevada, *November 12-14.*

RISK MANAGEMENT AND SAFETY—Conference of The University of Arizona; Tucson, Arizona, *November 17.*

HAZARDOUS WASTE ENGINEERING—Seminar of Vanderbilt University; *November 17-19* at Austin, Texas; *December 1-3* at Atlanta, Georgia; *December 8-10* at Chicago, Illinois; *January 26-28* at Pittsburgh, Pennsylvania.

PRETREATMENT OF INDUSTRIAL WASTEWATERS—Program of Vanderbilt University; *November 17-19* at Austin, Texas; *January 19-21* at Washington, D.C.

INFORMATION MANAGEMENT—1st exposition and conference for manufacturing companies, produced by Clapp & Poliak; Chicago, Illinois, *November 18-20.*

SYSTEM APPROACH FOR DEVELOPMENT—3rd Conference of the International Federation of Automatic Control; Rabat, Morocco, *November 24-27.*

MINE PLANNING—Professional development seminar at McGill University, Montreal, Quebec, *November 24-28.*

BLASTING TECHNOLOGY 1980—International symposium announced by Wirtschaftsforderungsinstitut; Linz/Donau, Austria, *November 26-28.*

ACCOUNTING, TAX AND LEGAL ASPECTS OF DOING BUSINESS IN THE EUROPEAN ECONOMIC COMMUNITY—Meeting of The World Trade Institute; New York City, *December 1-2.*

LUBRICATION, FRICTION AND WEAR IN ENGINEERING—Conference and exhibition of The Institution of Engineers; Melbourne, Australia, *December 1-5.*

HAZARDOUS WASTE MANAGEMENT UNDER RCRA AND CONSOLIDATED PERMITS—Workshop of The Energy Bureau Inc.; Washington, D.C., *December 2-3.*

AMERICAN INSTITUTE OF PLANT ENGINEERS—Eastern conference and show; New York City, *December 2-4.*

DOMESTIC AND INTERNATIONAL LICENSING OF TECHNOLOGY—A course by the Practising Law Institute; *December 4-5* at New York City, *January 8-9* at San Francisco, California.

ORE DEPOSITS—6th annual workshop of the University of Toronto; Toronto, Ontario, *December 8-12.*

CURRENT BLASTING PRACTICE—Seminar presented by Precision Blasting Services; Phoenix, Arizona, *December 9-11.*

PRODUCT LIABILITY OF MANUFACTURERS/PREVENTION AND DEFENSE—Course of Practising Law Institute; *December 11-13* at New York City, *January 22-24* at Los Angeles, California.

FIRST WESTERN MINING SHOW—Phoenix, Arizona, *December 11-13.*

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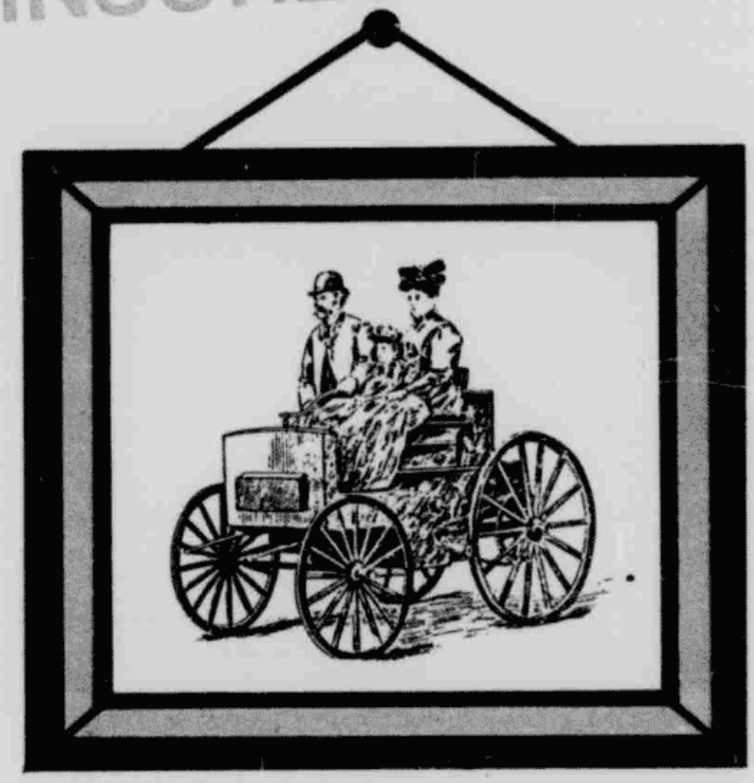
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