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OCCUPATIONAL HEALTH INTERNATIONAL UPDATE

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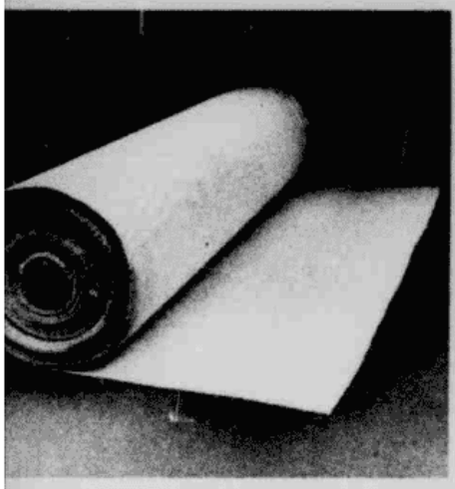
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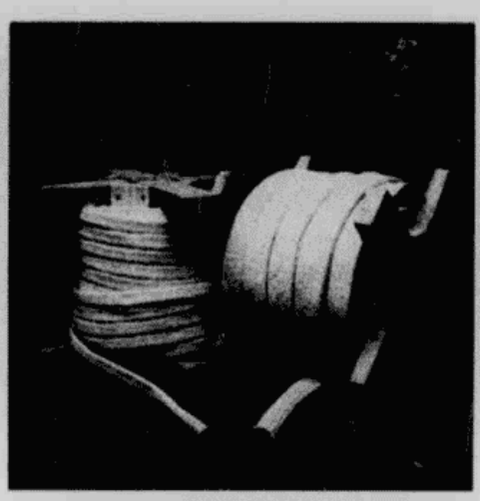
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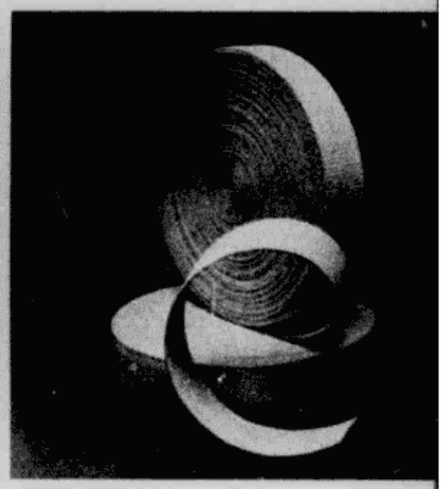
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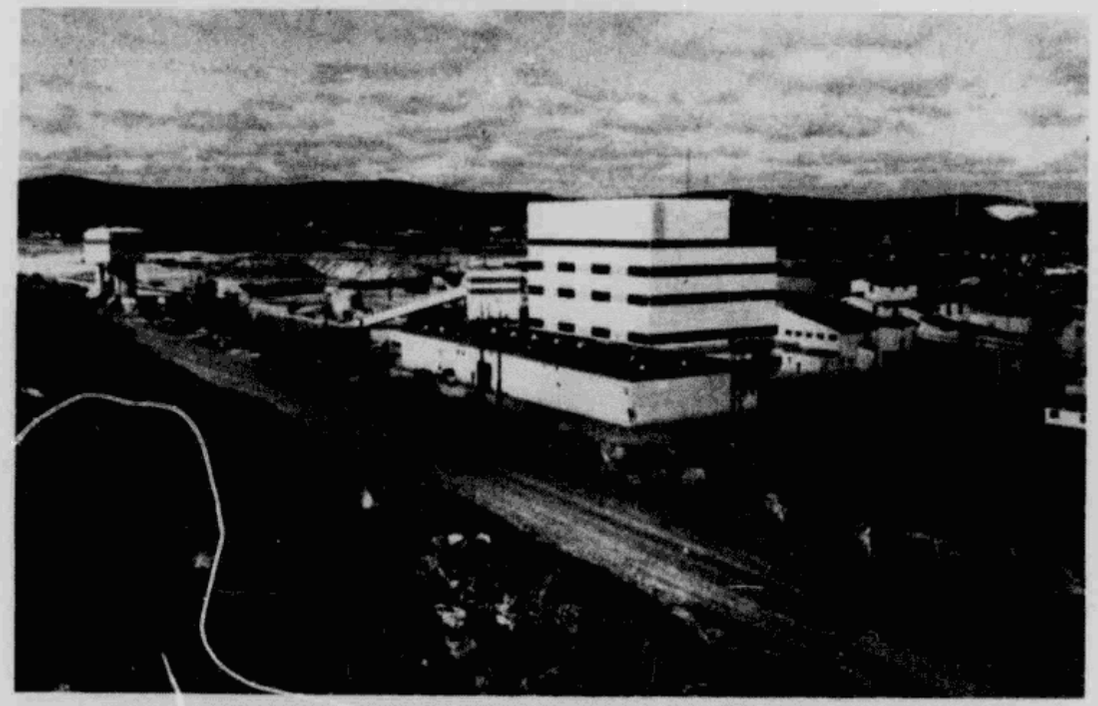
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In Memoriam

NICHOLAS GRITZUK

CASSIAR ASBESTOS CORPORATION LTD.

Nicholas Gritzuk, Chairman of the Board of Cassiar Asbestos Corporation Ltd., died April 14, 1979, after a lengthy illness. He was in his 65th year.

Mr. Gritzuk was born in Winnipeg, Manitoba, where he received his early education. After a number of years service at Central Patricia Gold Mines, where he developed an interest in metallurgy, he entered the University of Manitoba and received his primary engineering training. Subsequently, he attended Queen's University and graduated cum laude as a Metallurgical Engineer in 1945.

Following graduation he returned to Central Patricia where he became involved in metallurgical analyses for United Keno Hill Mines. In 1946 he was sent to United Keno Hill Mine at Elsa, Yukon, subsequently being advanced to Assistant Manager and becoming involved with mine operations and the organization of a comprehensive transportation system to move United Keno silver-lead-zinc concentrates to the railhead at Whitehorse, Yukon. By 1952 he held the posts of Manager Transport, Manager of the mine's purchasing arm and Consulting Engineer to United Keno.

From 1956 to 1960 Mr. Gritzuk directed oil exploration for Conwest and Western Minerals in the Eagle Plains area of the Northern Yukon.

In 1961 he was appointed Assistant to the General Manager of Cassiar Asbestos and moved to Toronto, Ontario. In 1962 he became Manager Operations for Cassiar Asbestos. In 1965 he left Cassiar Asbestos to become Vice President and General Manager for Granduc Operating Company, a subsidiary of Newmont Mining Corporation. In that capacity he successfully completed a 10.13-mile tunnel and copper mine at Granduc, in Northern British Columbia, an accomplishment of international interest.

In 1973 he moved to New York City to become Senior Mining Engineer for Newmont. In that capacity, he traveled worldwide, examining mining properties for the company.

While continuing his duties at Newmont Mining, Mr. Gritzuk accepted the Chairmanship of the Board of Directors of Cassiar Asbestos, although continuing to live in New York. In 1977 he moved to Vancouver, British Columbia, to devote full time to the affairs of Cassiar Asbestos.

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OCCUPATIONAL HEALTH/INTERNATIONALLY

INGESTION STUDY INCONCLUSIVE

Rats and hamsters being fed asbestos in two massive experiments have not developed abnormally high numbers of cancerous tumors or suffered early deaths. The Durham Institute, North Carolina, is sponsoring the two animal feeding projects, with the National Institute of Environmental Health Sciences acting as overseer. Hamsters are being fed Chrysotile or Amosite fiber at the Illinois Institute of Technology Research Institute, Chicago, and rats are being fed asbestos at Hazelton Laboratories, Vienna, Virginia. The asbestos-fed hamsters are being compared with a control group of hamsters not receiving asbestos. The average age of death is about the same in both groups. The rats are kept in chambers into which either short or long asbestos fibers are pumped, with the hope the tests will indicate which type causes cancer. Researchers have encountered nothing to suggest that the asbestos ingestion is causing an outbreak of cancer among the test animals.

THE HAIR DRYER SCARE

On March 28, an NBC-owned television station in Washington, D.C., carried a 15-minute special report on the alleged hazard from exposure to asbestos released from insulating material around the heating elements of hand-held hair dryers. The report was based on a 9-month investigation by the station, aided by the Environmental Defense Fund (EDF). The story spread like wildfire across the nation, as national news media gave sensational coverage to the report. The next day, at a public meeting of the U.S. Consumer Product Safety Commission (CPSC), the Commission heard a staff report on the alleged hazard. On that same day, EDF filed a petition with CPSC to prohibit the "further sale of hair dryers containing asbestos materials and requiring the repair or replacement of such dryers which have already been distributed in commerce." Public concern was so great that the Commission asked that its toll-free number not be used to obtain information on which hair dryers contained asbestos, but that those concerned should write for information.

CPSC is currently evaluating a report prepared by a consulting firm for the television station which gives the results of laboratory testing of commercial hair dryers for asbestos emissions, and has initiated further laboratory testing by electron microscopy of additional hair dryers. Meanwhile, the Commission has requested manufacturers involved to submit detailed data on the use of

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asbestos in their hair dryers. A public meeting and a hastily-called congressional hearing were held in April. The latest newspaper report we have at hand lists some 90 models of hair dryers which do contain asbestos, plus a possible 8 other models still under study. Several manufacturers have said they will replace or repair models which may be a health risk to persons who bought them. Executives of 10 manufacturers responsible for 90% of the hair dryers sold in the United States said they have stopped selling dryers containing asbestos. Some packages containing hair dryers have a label affixed which reads "no asbestos material."

BATTELLE STUDY COMPLETED

It has been reported that the staff of CPSC completed its study of a report based on data prepared by Battelle Columbus Laboratories. The project concerned such asbestos-containing products as dry-mix texture paints; bulk asbestos fiber; asbestos-cement pipes, sheets and related products (and their household uses); millboard materials; plywood patch or filler and composition board; and sprayed-on, decorative, acoustical or thermal insulation. Based on the Battelle's findings, the CPSC staff had been prepared to recommend the Commission "undertake no further regulation at this time." However, attention to the hair dryer situation has put the matter in an "indefinite hold" status. [AIA/NA News & Notes]

CPSC WITHDRAWS POLICY

With effect April 23, 1979, CPSC has withdrawn its interim policy and procedure for classifying, evaluating and regulating carcinogens in consumer products (see February 1979 ASBESTOS, page 24). The main reason for the withdrawal is that CPSC has joined with several other federal agencies in preparing and issuing an interagency document describing the scientific bases for identifying potential carcinogens and estimating their risks, thereby rendering its interim measure unnecessary and duplicative. Also, CPSC has ample authority under the statutes it does administer to regulate suspected carcinogens in consumer products on a case-by-case basis. [Federal Register of April 23, 1979; page 23821]

AIA/NA ASKS RETRACTION FROM OSHA

The following paragraph appeared in a recent press release titled "Do You Work With Asbestos?", circulated to labor unions by Dr. E. Bingham, Assistant Secretary of Labor (OSHA): "In all,

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three to five million workers may be exposed to asbestos. Studies have shown that more than 40% of asbestos workers will die of asbestos-related diseases. Even very brief exposure may cause deadly lung disease or cancer which may not show up for 20 years or more. Other studies have shown that 38% of asbestos workers' family members may suffer lung disorder, apparently as a result of exposure to fibers which are brought home on work clothes." T. A. Dougherty, President of the Asbestos Information Association/ North America (AIA/NA), advised Dr. Bingham by letter that the Association "must protest in the strongest terms possible such irresponsible and misleading statements." Mr. Dougherty requested the OSHA release be retracted "with appropriate explanation that the statistics cited are not scientifically supportable nor indicative of related risks associated with present-day exposures to asbestos."

BIOLOGICAL EFFECTS OF ASBESTOS

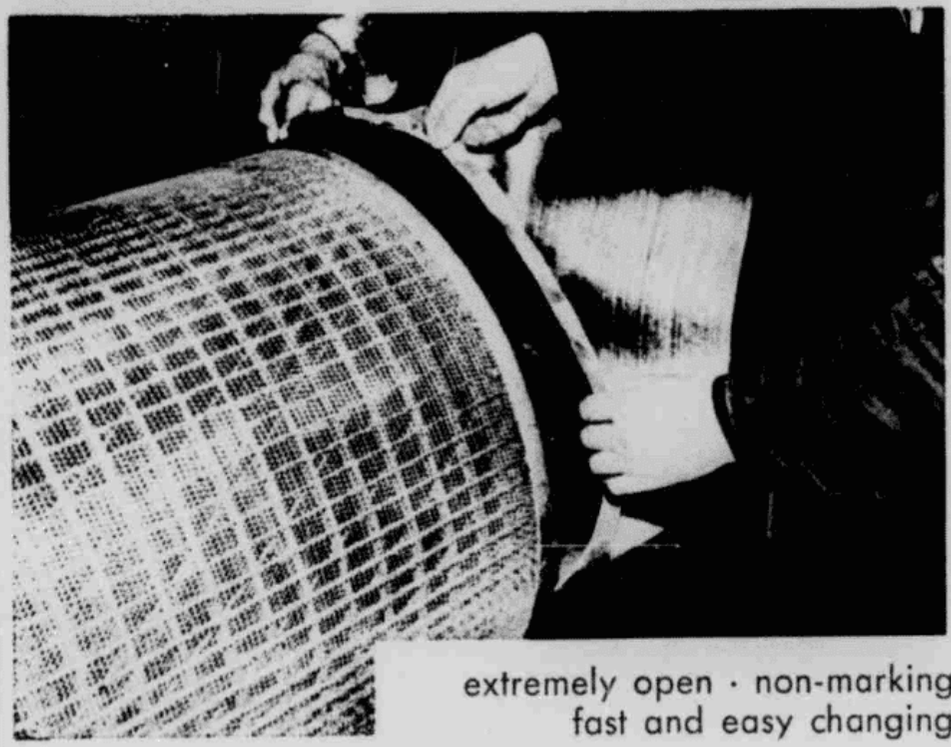
A workshop will be held June 7-8, 1979, in Bethesda, Maryland, to summarize some of the presently available information on the biomedical effects of mineral fibers and particulates, with special emphasis on asbestos, the identification of gaps in the knowlege of the effects of these agents on biological systems and the elucidation of the means by which such gaps may be overcome. Reports on the current research activities and interests of a wide variety of scientists will be highlighted. The workshop is sponsored by the Subcommittee to Coordinate Asbestos/"Asbestiform" Research, Committee to Coordinate Toxicology and Related Programs. Public Health Service, U.S. Department of Health, Education and Welfare. Individuals wishing to attend should give advance notice to Ms. Ronda Rice, National Institute of Environmental Health Sciences—(919) 541-3506. [Federal Register of April 30, 1979; page 25266]

ASBESTOS HEARINGS

The U.S. House Education and Labor Subcommittee on Labor Standards has scheduled seven days of "information and oversight" hearings on asbestos in the next six months. Hearings held May 1-3 began with testimony on asbestosis by medical experts from government, industry and universities, followed by comments from union officials and testimony concerning liability from representatives of industry and government. Future hearings on asbestosis and other occupational diseases will be held July 6-7 at Long Beach, California, and October 1-2 at Providence, Rhode Island. [AIA/NA News & Notes]

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LABOR UNION BRIEFS

Two grants recently were awarded by the federal government which involve the International Association of Heat and Frost Insulators & Asbestos Workers. A $50,000 planning grant was given the union through the OSHA Institutional Competency Building Program to develop a training film on occupational health and safety issues. In addition, Dr. I. J. Selikoff, of the Mt. Sinai Medical Research Center, was informed of a grant to study workmen's compensation programs on a state-by-state basis and recommend improvements.

Making company records accessible to employees and their unions is an important first step toward protecting workers from job-related illness, the AFL-CIO testified at hearings held by OSHA on its proposed rules on Access to Employee Exposure and Medical Records (see February 1979 ASBESTOS, page 13). Called for was an extension of the time period that firms would be required to retain the records which, under the proposal, is the term of employment plus five years. It was testified that the proposed retention limit for recordkeeping is too short to assure the availability of data to assess occupational illnesses which have long latency periods. Also cited was the need for a centralized government repository for use by researchers when investigating workplace hazards. [The Asbestos Worker]

STATE-LEVEL HAPPENINGS

CALIFORNIA—Major legislation was introduced aimed at ensuring that working people who are injured because of contact with asbestos are given workmen's compensation benefits. Currently, most workers cannot qualify for workmen's compensation later than five years after contracting an asbestos-related disease. . . . A University of California research group recommended closing the popular Clear Creek Recreation Area in Southern San Benito County because of a high concentration of potentially hazardous asbestos fibers, mainly caused by dust raised during racing events. The area is used by nearly 40,000 motorcyclists, hunters, campers and rock enthusiasts.

CONNECTICUT—The Department of Environmental Protection (DEP) recently proposed a numerical ambient air quality standard as part of a revision to its State Implementation Plan. The proposal sets a limitation of 30 ng/m³ or 30,000 total asbestos fibers (determined by electron microscopy) per cubic meter of air, 30-day average, and a compatible mass emission standard of 24 grams per day. In its introduction to the proposal, the Department

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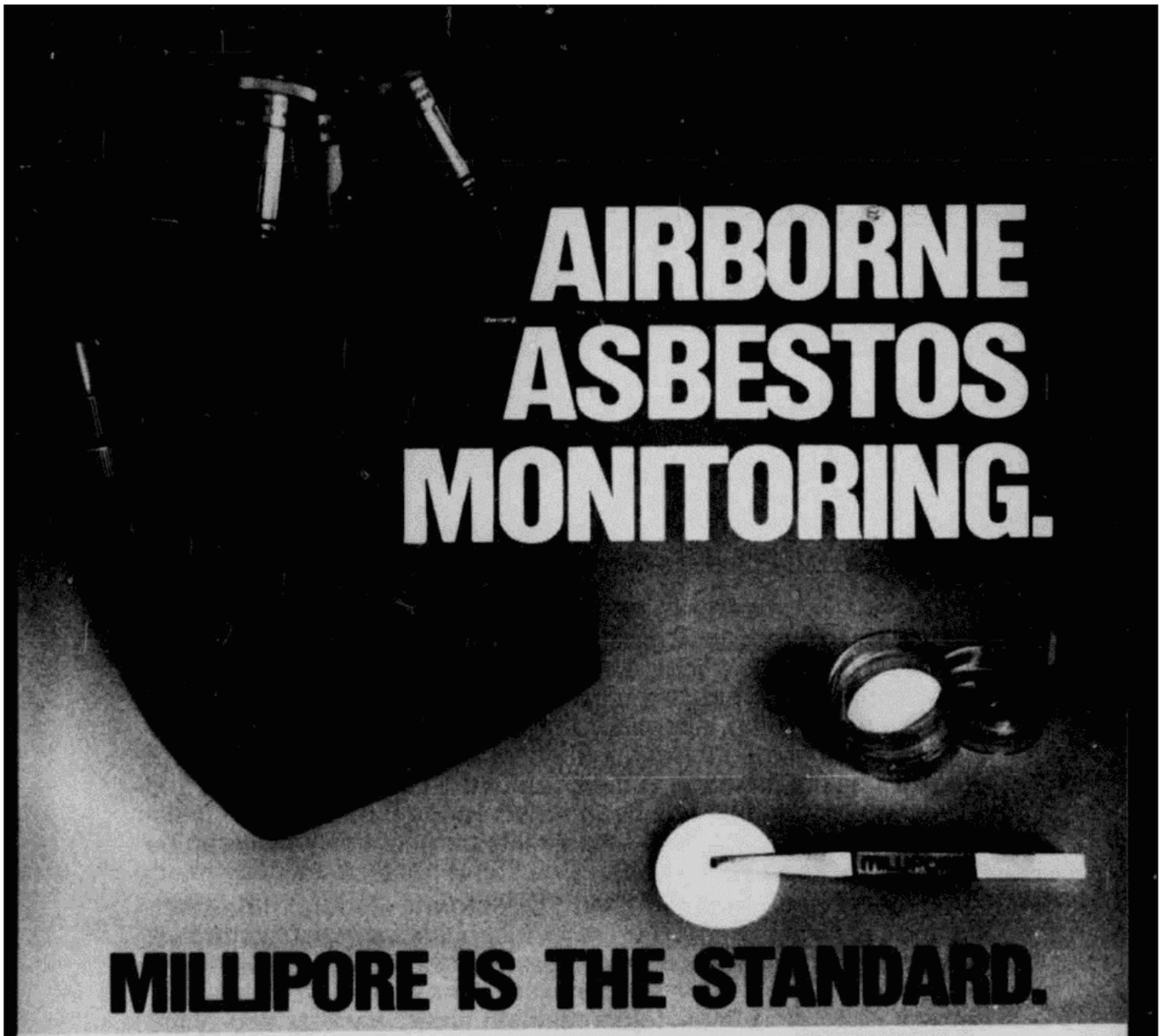
stated that the "no emission" limit of the U.S. Environmental Protection Agency (EPA) is "inadequate for the purposes of protecting public health in Connecticut. . . ." In its response to the proposal, AIA/NA emphasized that the precedent-setting proposal is cause for serious concern by the Association. The principal reasons cited were: "lack of scientific evidence to support any increased risk to the general public resulting from stationary sources now operating in compliance with the EPA National Emissions Standards of Hazardous Air Pollutants; shortcomings which exist in current procedures for the measurement of airborne asbestos concentrations and emissions; and the resultant economic impact if the proposed standard is approved." A DEP spokesman advised that further action on the proposal has low priority and a thoroughly coordinated review will be undertaken when and if the matter is scheduled for consideration. [AIA/NA News & Notes]

VIRGINIA—A senate committee rejected a request to make Virginia the first state to ban asbestos-cement water pipes but agreed to study the matter during the coming year. Opposing the bill were an industry representative and state health officials who argued that medical researchers have not proven a link between ingested asbestos and cancer. . . . Asbestos was nominated for designation as a Class I substance in Virginia based on the state's Toxic Substances Information Act. If adopted, users and manufacturers of over 1,000 kilograms per year of asbestos would have to file a special report to ensure that "appropriate government and company officials are aware of the character of a potentially hazardous substance, its emissions and health effects, as well as any detoxification procedures." In responding to the proposal, AIA/NA stated that Class I documentation failed to meet the statutory requirement of the Act for specifying the amount in which asbestos poses a threat to health or environment. It was also stressed that firms using asbestos-containing materials in manufacturing where the asbestos is "locked in" should be exempt from Class I reporting requirements, under another provision of the Act.

ACROSS CANADA

Asbestos use in drywall joint cement and fake fireplace ashes may be banned in Canada under regulations being drawn up by the Federal Department of Consumer and Corporate Affairs. The regulations, proposed under the Hazardous Product Act, will require consumer products (in which asbestos products cannot be substituted) to carry labels warning of the presence of asbestos.

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The first meeting of the newly-established Canadian Center for Occupational Health and Safety was held in February. Among its objectives are to gain an overall view of the health and safety problems inherent in the various types of workplaces in Canada and to so inform workers, employers, government, pertinent organizations and the general public. Another main function will be to encourage and stimulate research and to facilitate the training of specialized personnel in these sectors. [QAMA Bulletin]

PROGRESS IN EUROPE

Recent months have seen a quickening pace in the determination of the European Commission to achieve progress in the formulation of regulations and legislation dealing with the conditions arising from the manufacture and use of asbestos. In the short time since the inception of the European Advisory Committee of the Asbestos International Association (AIA), a great deal of progress has been made in the coordination of industry effort, and a growing recognition has been noted on the part of the Commission representatives of the responsible contribution which can be made by AIA and its European Council.

Under a draft directive titled "Directorate General III/Marketing and Technical Barriers to Trade," it appears a prohibition will be placed on the marketing of Crocidolite and Crocidolite-containing products, although there will be exceptions granted for asbestos-cement pipes and asbestos-containing seals, gaskets and gland packings. Products containing all other asbestos fibers may be placed on the market, except for spray, thermal and acoustic applications where fiber emission cannot be prevented. Another EC document, called "Directorate General V/Health and Safety in the Workplace," generally follows the approach of DG III. However, an Action Program to reduce risk to human health from asbestos is expected to be published soon. It includes proposals to reduce risk from asbestos due to work and para-work related exposure, evaluation of non-work exposure due to asbestos and research activities aimed at improving understanding of health risks due to asbestos and its potential substitutes.

Another significant event was a meeting held last December by the EC and Canada, arising from agreements between the European Economic Community and Canada for a Working Party on Ores and Metals. The result of the meeting was an identification of 12 areas which offer prospects for further cooperation.

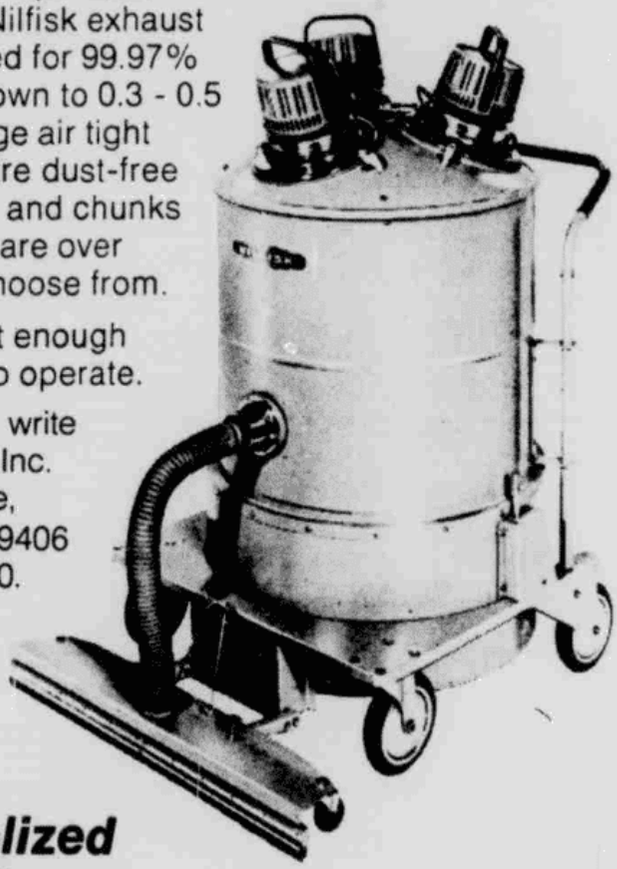
The harmonization of legislation, the establishment of a rationale for the future use of asbestos and the establishment of a responsible approach in substitution strategy are key issues in

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terms of continuity of manufacture, world trade, investment and employment. There is an atmosphere of greater understanding and a more balanced view reflected in the forthcoming legislation that suggests some improvement in the future for asbestos. [Excerpts from an article by The Director General of the U.K. Asbestos Information Centre which appeared in the Asbestos Information Newsletter]

ASBESTOS INTERNATIONAL ASSOCIATION

The Asbestos International Association held its Biennial Conference in London in October. The event was solely for members in the industry, serving as an international forum for exchange of information and ideas. In attendance were 100 delegates from some 20 member countries plus observers from Cyprus, Greece, India and the USSR who, hopefully, saw the need to form industry associations in their own countries so they can participate in the work of AIA. Since the meeting, Greece has formed a national association which has joined the AIA.

Several papers were presented at the conference, each followed by a discussion period, i.e.: Asbestos and Health—The Current View, Review of the Current Situation in Japan, Present and Pending Regulations in the United States—Their Significance for the Asbestos Industry, EEC Developments Affecting the Asbestos Industry, Reports of the Advisory Committee on Asbestos, A View of the Industry from Quebec, Dealing with the Press, and A Central Laboratory for Monitoring Dust Levels in Asbestos Factories in France.

The conference was closed by E. van der Rest from Belgium (Chairman of the AIA Governing Council) who reviewed the past and present activities of the Association and spoke of future action needed. He highlighted several points made during the conference, including that asbestos can be a dangerous substance but, if correctly handled, its great benefits can be enjoyed with safety. He also reiterated that situations in the asbestos and health field can deteriorate very quickly if the industry is not sufficiently alert to dealing immediately with such problems and, indeed, anticipating them. [Excerpted from a statement issued by The Director General of the Asbestos International Association]

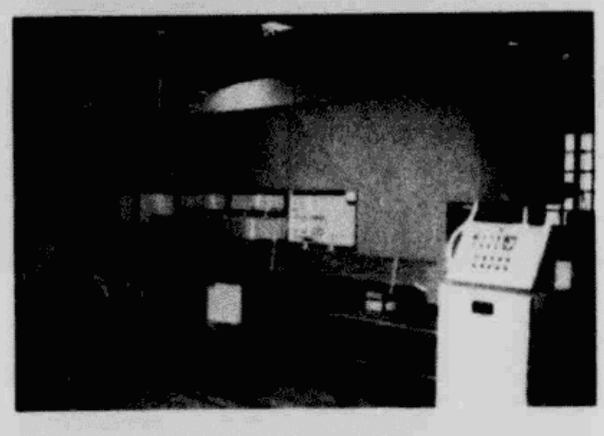
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DUST COLLECTION & CONTROL

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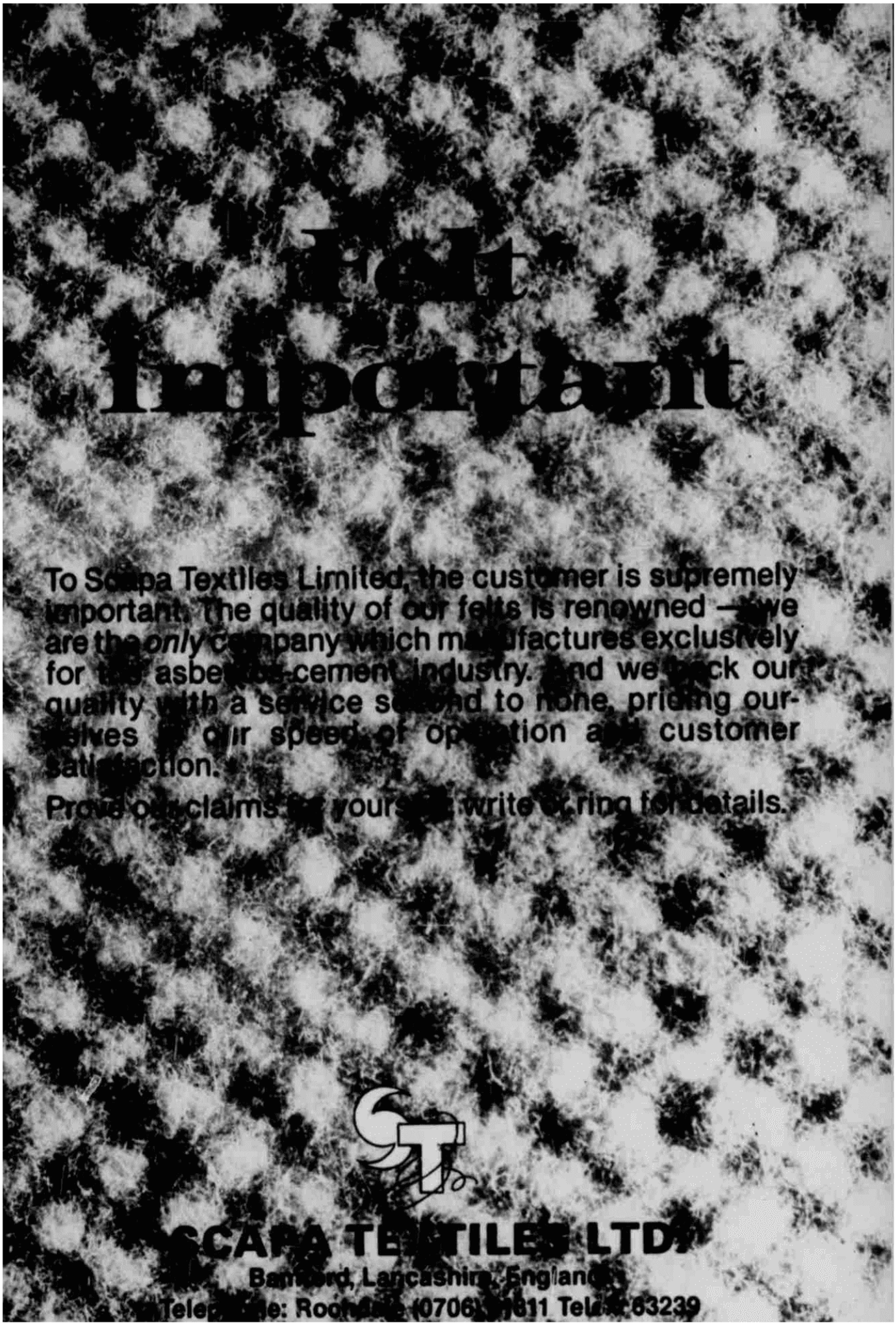
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DRUM & DISC PELLETIZERS

Mars Minerals Corporation, Valencia, Pennsylvania, furnishes pelletizing equipment, engineered systems, turnkey plants and services for a wide range of dust and powder agglomeration. Pelletizing is defined as an agglomeration process whereby an amorphous mass of finely divided particulates is formed into a pellet, ball or granule in the presence of moisture added during the process. Materials as light and fluffy as silica fume (10 pounds per cubic foot) and as heavy as tungsten carbide (200 pounds per cubic foot) can be pelletized.

One of Mars' automatic pelletizing systems is in use in North Carolina where asbestos brake shoes are manufactured for the automotive industry. A baghouse collects the asbestos grindings and discharges them into a collecting screw conveyor. This feeds an inclined screw conveyor which fills a 6′ diameter holding bin with a 3′ diameter live bin bottom. When the asbestos dust reaches the high level probe in the holding bin, the pelletizer is started, a water solenoid valve opens and the live bin bottom is activated. The addition of water to the asbestos dust produces durable, uniformly sized pellets which are collected in a tote box and easily removed. Constructed for heavy-duty pelletizing, the system can handle three tons per hour of dust, non-stop. . . . A spokesman for Mars advises that a shop-prefabricated, integrated pelletizing system is also in operation in the friction materials operation of a major automobile manufacturer in Detroit. The system is automated and works from a single, central motor control center. Three pelletizing systems of this general type have been furnished to companies in Detroit, for processing friction material waste.

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Mars' test file includes materials tested for several companies, including producers of raw asbestos in the United States, Canada and South Africa, and makers of friction materials, asbestos textiles, insulation, molded products and asbestos cement. The company's classifications of dusts successfully pelletized include Chrysotile dust, coarse dust, asbestos cement waste, grinder dust, friction material fines, mill tailings, fiber fines and asbestos-resin mix.

FILTER SELECTION WALL CHART

Industrial hygienists can now have an easy-to-use reference wall chart which contains all the relevant information pertaining to monitoring workplace airborne particulates. Over 120 worksite airborne contaminants, from A to Z, are tabulated alphabetically, together with required filters for monitoring the air, OSHA permissible exposure limits and NIOSH analytical methods and references. A free copy of the "Air Monitoring Filter Selection Guide Wall Chart" is available from *Millipore Corporation,* Bedford, Massachusetts.

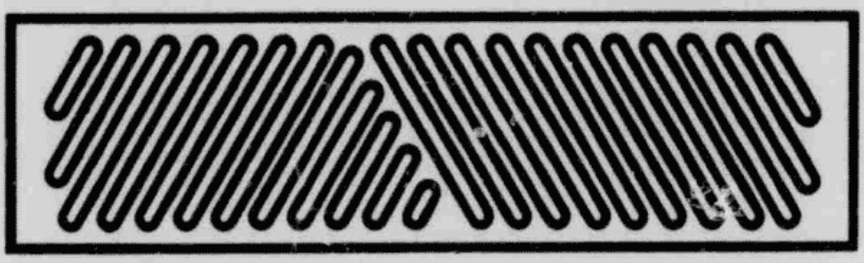
FABRIC FILTER DUST COLLECTORS

The "Unimaster" fabric filter dust collector can handle air volumes from 300 to 2,000 cfm and adapts easily to most medium-sized dust collection applications. It is available in over 500 configurations and a choice of inlet locations improves its adaptability to various plant layouts. The Unimaster features automatic, motorized filter cleaning and quick-release, bucket-shaped dust container, separate fan and filter plenum access doors, a slide-out filter assembly and one-piece filter elements. A bonus is a saving of air heating and cooling costs because the cleaned air is recirculated back into the work area. . . . Highly efficient fabric filter elements of "Cased Dalamatic" dust collectors are sized to allow easy removal, inspection and replacement by one man. Access to the elements is through the clean air plenum via a hinged front door. The unit is adaptable for dust control applications with air volumes from 400 to over 100,000 cubic feet per minute. Continuous duty is possible because of a reverse jet compressed air cleaning system which removes dust cake from the filter elements. Air flow through the unit is downward to avoid high pressure loss. . . . The "Insertable Dalamatic" fabric filter dust collector is designed for insertion into pneumatic and belt conveying systems, silos and bunkers and tipping operations. It controls dust at the point of generation and requires no costly duct work.

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Robalit 61

Suction Box Covers and Felt Conditioner Tops for Asbestos-Cement Pipe and Sheet Machines. Our plastic material alloyed with Molykote is proven in countless installations throughout Europe and Overseas.



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- Minimum coefficient of friction, considerable reduction of drag load.
- Remarkable increase in felt speed and felt life.
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- Minimum wear – no sharp edges developing.

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The unit is available with seven different filter sizes, capable of handling applications with air volumes from 400 to 2,000 cubic feet per minute. . . . Literature on the Unimaster, the Dalamatic and other units in its complete line of fabric filter dust collectors is available from *DCE Vokes Inc.*, Jeffersontown, Kentucky, the U.S. affiliate of *DCE Vokes Group Ltd.*, England.

AIR SAMPLERS

The "High Volume Air Sampler Unit" is now being made available for general use by *The Staplex Company*, Brooklyn, New York. The unit was developed in laboratories of the U.S. Atomic Energy Commission and manufactured in large quantities for the Commission by Staplex. Prime purpose of the unit is to accurately sample large volumes of air for particulate matter by means of a filter paper. The sampler has been used successfully to sample air containing particles as small as one-hundredth of a micron in diameter. The unit, complete with accessories, gives fast, accurate samples for the measurement of industrial dusts, atmospheric and environmental pollutants, mine hazards, etc. Staplex reports that its instruments are in use at several asbestos manufacturing plants in the United States. . . . Also recently introduced by Staplex is its "Model LV-1 Low Volume Air Sampler" for quick, easy, low-cost sampling of airborne particulates. The model is capable of sampling particles down to .01 micron, at calibrated air flows from 15 to 35 liters per minute.

ENGINEERING FABRICS AS AIR FILTERS

Information is being generated at *Textile Research Institute*, Princeton, New Jersey, concerning fiber geometries and fabric constructions which improve the performance of fabric air filters. Both laboratory flat-filter experiments and results with a one-bag laboratory baghouse have indicated significant improvements when the fibers composing nonwoven filter fabrics have lobed rather than round cross sections. Not only is capture efficiency considerably increased, to the greatest extent for particles in the respirable size range, but pressure drop across the filter is also reduced.

NEXT ISSUE—*STRAIGHTENING OUT THE STRENGTH UNIT CURVE*, by D. R. Burman & A. A. Hodgson, Cape Asbestos Fibres Ltd.

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= Residual asbestos in the bag : less than 1 g /bag

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COVERALLS FROM DURAFAB

"BestoShield" polylaminated coveralls are specially designed for worker protection against asbestos and other substances and provide water repellency, grease and oil resistance and an effective barrier against acid. The low-cost garments have a Frazier Air Permeability (FAP) of .0 and are made from puncture-resistant Tyvek, a spun-bonded olefin coated with polyethylene fiber. They can be ordered with or without shoe covers, attached hoods and a built-in air duct extension for use with air source apparatus. All are extra full cut for working comfort and have full zipper closures and elastic wrist closures. For working situations where a moisture barrier is not required. the coveralls are available in regular Tyvek which offers an FAP of less than 1. Other Durafab products include reusable/disposable clothing, laboratory coats, smocks, shirt/pant suits and work coveralls. Further information is available from the manufacturer, *Durafab Inc.*, Clebourne, Texas.

MOBILE LABORATORIES

Testing programs are conducted, on location, in mobile laboratories of *Professional Health Services,* Havertown, Pennsylvania. The employee health testing facility provides a full range of employee examinations for OSHA requirements, union contracts and health programs. Included are 14" x 17" chest X-rays, pulmonary function studies, audiometric examinations, visual screening and tonometry, laboratory analysis and toxicology and cytology examinations. All results are recorded by computer, providing a printout reference of data on every employee tested. The computer maintains the information indefinitely to furnish up to five years of cumulative testing data for comparative purposes.

EXCELLENCE AWARD TO RACAL

The first practical personal engineering control system for industrial use has been recognized for Engineering Excellence. The Consulting Engineers Council has presented its first place award to *Racal Airstream Inc.*, Rockville, Maryland, for development of a High Efficiency, Air Purifying System. A combination of hard hat, face shield and powered respirator, the system is

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lightweight, comfortable and portable. The "AH3 Helmet" provides respiratory, head, eye and face protection against immediate and long-term hazards. Its powered particulate respirator is better than 99.97% effective against 0.3 micron particles. It is the most recent addition to the Airstream range of personal engineering-control products and is designed for use against fumes, mists and dusts with a TWA less than 0.05 milligrams per cubic meter of air and against various combinations of particulate and other matter. Also available from Airstream are the AH1 Anti-Dust Helmet, Welding Helmet configurations and the AH5 Air Purifying Helmet, the latter having been approved by NIOSH for protection against asbestos-containing dusts and mists.

GLENDALE PROTECTIVE PRODUCTS

Glendale Optical Company, Woodbury, New York, a subsidiary of American Cyanamid Company, is offering literature on its wide variety of products used for eye and face, respiratory, hearing and head protection. ANSI and NIOSH/MESA approvals are noted where they apply. Among the products available from Glendale are disposable dust respirators; agricultural twin-cartridge respirators; all-plastic, adjustable spectacles with TEMA II coated polycarbonate lenses; and face shields, including a polycarbonate visor with IRex infrared absorbers.

METAL FUMES RESPIRATOR

H. S. Cover Company, Buchanan, Michigan, is now making an open-filter metal fumes respirator. Its unique design offers several advantages. It is more economical and compact than cartridge-type counterparts and can be worn under a welder's helmet. The respirator has an uncased filter system and has been approved for use in atmospheres containing metal fumes, dusts (including asbestos) and mists.

DISPOSABLE DUST RESPIRATOR

A low-cost, disposable dust respirator, called the "Dust-buster" is available from *General Scientific Equipment Company,* Philadelphia, Pennsylvania. The protective device folds flat for easy pocket carrying and has a tapered contour designed to fit all face shapes and sizes. It has been granted NIOSH approval for protection against pneumoconiosis and fibrosis-producing dusts.

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DETECTION/ANALYSIS/MEASUREMENT

ELECTRONIC RECORDING BALANCE

The "Cahn 2000 Recording Electrobalance" has been introduced by *Cahn Instruments/A Division of Ventron Corporation*, Cerritos, California. A "core" instrument having a sensitivity to 50 nanograms, the Cahn 2000 can be used by inorganic chemists to detect and trace ferromagnetic impurities, for thermogravimetric analyses in controlled environments, to provide strip-chart recordings of the size distribution of particles between 1 and 100 microns in diameter and for surface tension measurements by either the Wilhelmy or DuNouy methods.

CASCADE IMPACTORS

Gelman Sciences, Inc., Ann Arbor, Michigan, announced its new "Ambient Cascade Impactor" as a multi-circular orifice, multi-stage, inertial impactor for measuring total concentration and simultaneous size distribution of liquid and solid particulates. Many problems associated with existing impactor technology have been eliminated and ease of handling has been improved. The unique design permits the impaction of larger mass quantities on a variety of collection substrates, while eliminating internal losses and particle bouncing. . . . Gelman also announced new "In-Stack Cascade Impactors" for the evaluation of process emissions and control equipment efficiency as specified by federal, state and local regulations. They are multi-circular orifice, multi-stage impactors which fit directly on standard EPA and ASME stack probes for measuring the concentration and size distribution of particulate emissions.

PROJECTOR & DIGITIZER

MS Instrument Company, Inc., Castleton on Hudson, New York, has advised that a new instrument for optical digital measurements was developed at *Projectina*, Switzerland, with the assistance of *Numonics Corporation*. The basic micro/macro projector is a high-quality, projection microscope for transmitted and episcopic light. Range of magnification is from 3x to 3000x. Area and length can be multiplied by thickness to provide volume. Length and area can be chain-measured, giving individually scaled segments as well as total accumulated values.

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AUTOMATIC INSTANT MONITORING OF AIRBORNE ASBESTOS FIBERS.

If you have to monitor the presence of airborne fibers, like asbestos, you should know there's an instrument that does it automatically.

It's called the Fibrous Aerosol Monitor. FAM™ for short. And it's loaded with state-of-the-art features.

For example, it provides a real-time count of airborne fibers even in the presence of large concentrations of nonfibrous particles. So you can quickly verify asbestos safety levels.

It continuously shows actual fiber count on an LCD display. And after each sampling cycle – selectable by the operator in durations of 1, 10, 100, or 1000 minutes – the concentration of fibers is automatically computed and displayed in units of fibers per cc.

It has an operator-adjustable dial for setting minimum detectable fiber length. An available standard AC or optional battery powerpack. And an in-line membrane filter for performing microscopy fiber counts or chemical analyses.

The unit itself is the size of a briefcase and weighs just 25 pounds. So it's easy to perform short term, on-the-spot surveys.

And for long term continuous monitoring, there are optional accessories which include analog or digital recorders.

Besides asbestos, the FAM can also monitor fiberglass, ceramic, graphite and other airborne fibers.

For more information on the FAM, call us at (617) 275-9000. Or mail this coupon to the address below.

☐ Please send literature on the FAM. ☐ I'd like to see a demonstration. Please call.

Name _____

Company _____

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City _____ State _____ Zip _____

Telephone _____

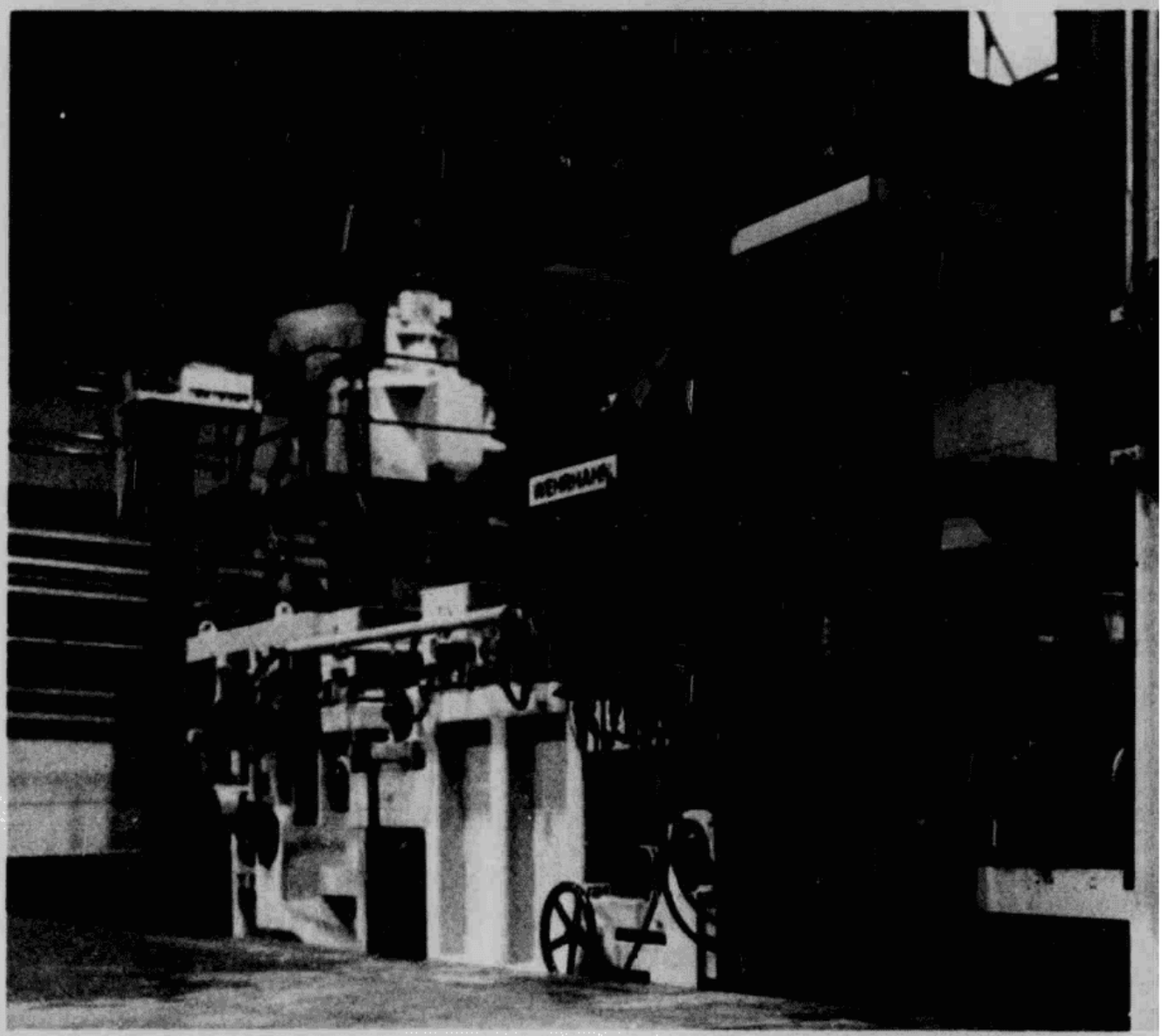
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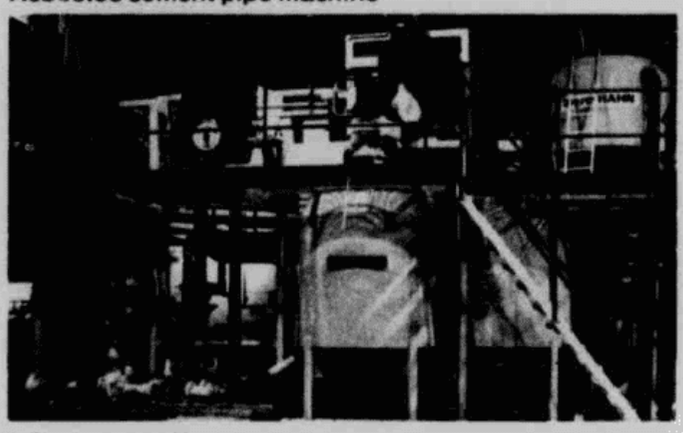


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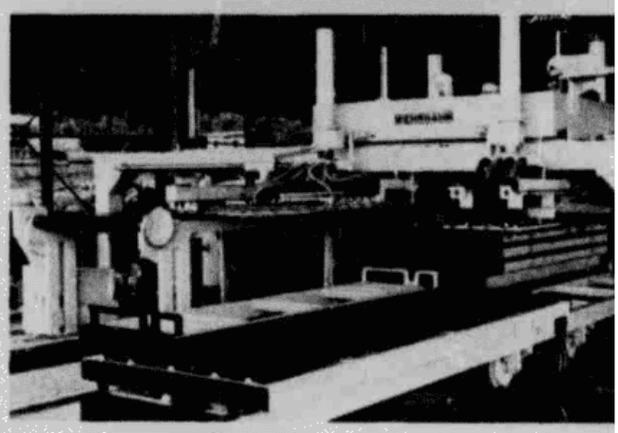
WEHRH



Asbestos cement pipe machine



Slurry preparation

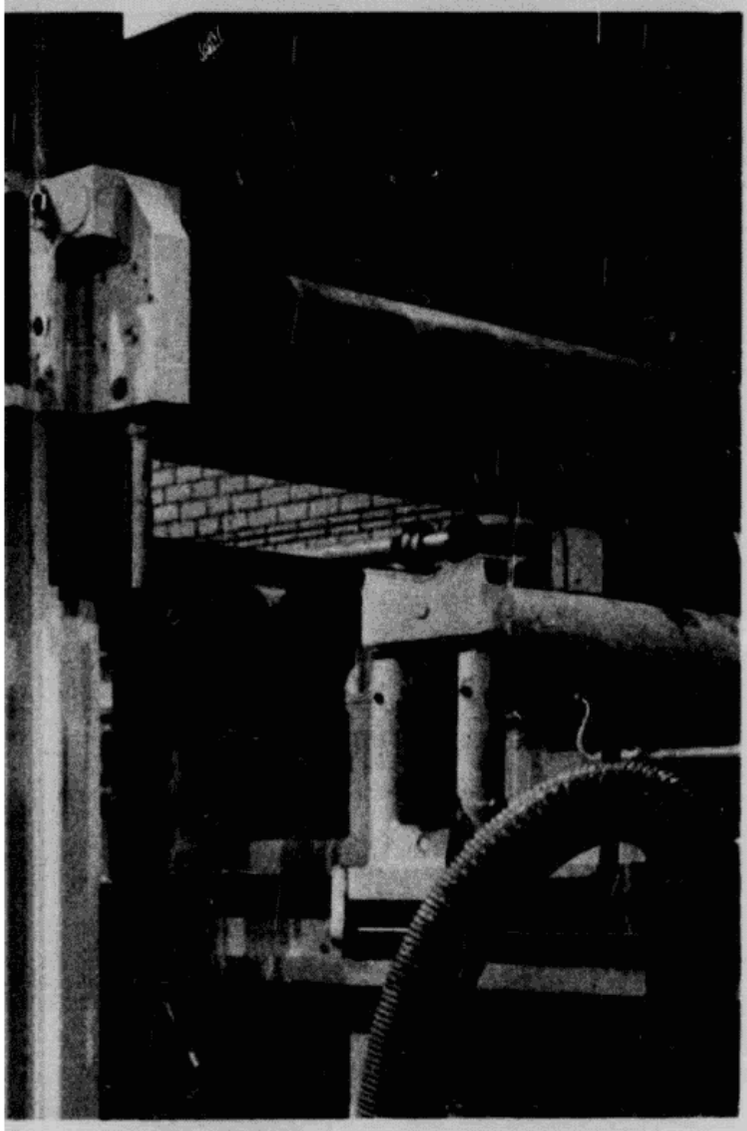


ac-sheet corrugation section

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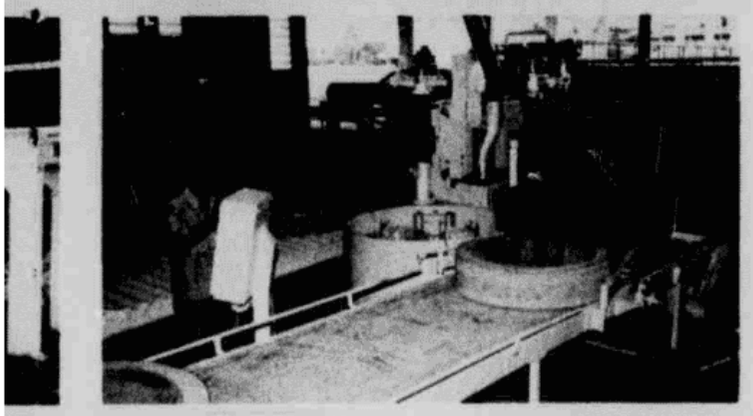
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MARKET CONDITIONS

GENERAL BUSINESS

First quarter statistics showed growth in Gross National Product of only 0.7% and inflation increasing to a rate of 8.7% annually. Despite the oft-repeated predictions of an imminent recession, many businesses are booming at a pace reminiscent of 1973. Extended deliveries are the order of the day in many lines and there is an obvious effort to build inventories regardless of costs.

After a sharp drop in February, housing rebounded smartly to a rate of 1,793,000 starts in March. The prediction that housing was starting to lead the economy into recession may have been a bit premature although increasingly tight money may yet throttle this bellwether industry.

The administration's wage guidelines were badly bent by the terms of the Teamsters' new contract but official pronouncements indicate continuing belief that adherence to this program can slow down or halt the frightening rate of inflation. Thankfully, there is growing evidence that increasing stress will be placed on governmental fiscal and monetary restraint in coming months and, despite the current high level of interest rates, we have recently witnessed the unprecedented spectacle of a Democratic administration pressuring the Federal Reserve to further tighten credit. As of now, the Board has indicated no change in the policy already in effect, indicating a fear that tighter credit might precipitate a sharp recession. Unfortunately, many members of Congress have not yet gotten the message and are continuing to foster typical "pork barrel" projects to benefit limited numbers of constituents with no regard for their undesirable inflationary effects.

The President has decided to remove price controls on crude oil, starting June 1, and proceeding in steps until October 1981 when all controls will be removed. He has accompanied this move with a demand that the Congress enact a tax to prevent the oil companies from retaining all the so-called "windfall profits" which, theoretically, will result from decontrol. As has been the case with previous proposed energy programs, there will be a fight in Congress over the tax itself and over the proposed uses of the monies collected by the tax measure.

Consumer sentiments and actions seem paradoxical. While polls show a low degree of consumer confidence and the high level of consumer debt should have a dampening effect on retail sales, the continuing high rate of sales leaves little room for doubt that much buying is being done in an effort to hedge against the certainty of higher future prices.

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HOUSING & CONSTRUCTION

MARCH 1979—Continued strength in nonresidential building, coupled with a modest rebound in homebuilding, lifted the month's total value of contracts for new construction to $13.9-billion, 12% higher than in the year-ago month. The March Dodge Index of new construction (1972 = 100) was 186, a decline from the record 231 in February but above the 181 recorded in January. This was largely due to the unusual impact in February of two huge nuclear power plants. After adjustment for these extraordinary projects, March showed this year's highest monthly rate of contracting for general construction. . . . March contracts for *nonresidential* building, at $4.2-billion, were 25% above the year-earlier total. Commercial and industrial projects were up 23% and institutional and other nonresidential building rose 29%. The *residential* building market reversed its recent decline in March, totaling $6.9-billion for newly-started homes and apartments—an 8% increase over last March. Despite a large March gain in highway construction, sharp declines in contracting for sewer facilities and power projects left the month's $2.9-billion contract total for *nonbuilding* construction only 3% ahead of March 1978.

FIRST QUARTER 1979—Total value of contracts for all construction initiated in the first three months of 1979 was $38.7-billion, up 20% from the same period a year earlier. The breakdown, by category, is: $11.5-billion for nonresidential building, up 28%; $15.9-billion for residential building, up 13%; $11.2-billion for nonbuilding construction, up 24%. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

DECEMBER 1978

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	288	$ 144,594
Crocidolite (Blue), South Africa	s.tons	2,437	556,940
Chrysotile Crudes, Italy	s.tons	358	26,043
South Africa	s.tons	773	485,808
Chrysotile Spinning Fibers, Canada	s.tons	478	309,376
Chrysotile, Other, Canada	s.tons	52,927	10,527,855
Mexico	s.tons	1	258
South Africa	s.tons	44	7,789
Other Crudes & Fibers, Canada	s.tons	1,759	615,177
South Africa	s.tons	140	91,982
		59,205	$ 12,765,822

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	631,979	$ 966,527
A-C pipes, tubes & fittings	Lb	2,631,409	344,808
Other asbestos-cement articles	Lb	1,473,659	306,975
Other asbestos articles		..	426,853
			$ 2,045,163

YEAR 1978

UNMANUFACTURED ASBESTOS:

Amosite, Canada	s.tons	20	$ 13,842
South Africa	s.tons	1,270	651,723
Crocidolite (Blue), Canada	s.tons	144	75,113
South Africa	s.tons	18,446	10,376,139
Chrysotile Crudes, Canada	s.tons	42	15,991
Italy	s.tons	422	31,920
South Africa	s.tons	5,753	1,891,311
Chrysotile Spinning Fibers, Canada	s.tons	8,038	6,491,300
South Africa	s.tons	55	40,662
Chrysotile, Other, Canada	s.tons	570,254	128,344,424
Mexico	s.tons	202	9,825
South Africa	s.tons	492	307,032
Sweden	s.tons	22	8,325
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	20,304	4,801,829
India	s.tons	43	17,027
Italy	s.tons	181	20,958
South Africa	s.tons	1,440	897,613
USSR	s.tons	1,113	324,447
Yugoslavia	s.tons	40	3,248
		628,329	$154,351,307

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U.S. IMPORTS/YEAR 1978—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	10,008,586	$ 16,115,676
A-C pipes, tubes & fittings	Lb	25,270,737	3,241,295
Other asbestos-cement articles	Lb	38,049,157	7,754,927
Other asbestos articles		..	7,266,229
			$ 34,378,127

Year 1977: U.S. imports of unmanufactured asbestos totaled 607,022 short tons, valued at $145,379,586; imports of manufactured asbestos products were valued at $31,866,879.

UNMANUFACTURED ASBESTOS: **JANUARY 1979**

Amosite, Canada	s.tons	60	$ 4,339
Crocidolite (Blue), Canada	s.tons	49	17,688
South Africa	s.tons	3,124	2,033,558
Chrysotile Crudes, Canada	s.tons	22	6,209
South Africa	s.tons	403	254,336
Chrysotile Spinning Fibers, Canada	s.tons	803	658,647
Chrysotile, Other, Canada	s.tons	47,320	10,133,113
South Africa	s.tons	22	8,091
Other Crudes & Fibers, Canada	s.tons	1,045	341,001
Italy	s.tons	17	3,630
India	s.tons	52	13,130
South Africa	s.tons	11	7,690
		52,928	$ 13,481,432

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	669,293	$ 1,093,823
A-C pipes, tubes & fittings	Lb	1,764,754	288,238
Other asbestos-cement articles	Lb	1,242,151	320,569
Other asbestos articles		..	460,238
			$ 2,162,868

January 1978: U.S. imports of unmanufactured asbestos reached 43,822 short tons, valued at $13,188,681; imports of manufactured asbestos products were valued at $2,881,151.

EXPORTS FROM THE UNITED STATES

From U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: **DECEMBER 1978**

Asbestos Crudes, Fibers & Stucco	s.tons	2,423	$ 1,070,579
Asbestos Sand & Refuse	s.tons	1,172	308,710
		3,595	$ 1,379,289

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	186,220	$ 514,568
Asbestos-Cement shingles & clapboard	Lb	1,072,142	285,159

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U.S. EXPORTS/DECEMBER 1978—CONTINUED

Other asbestos-cement articles	Lb	1,400,084	961,545
Asbestos gaskets	Lb	3,218,137	950,063
Asbestos packing & seals	Lb	259,956	1,002,304
Asbestos insulation		..	361,678
Brake linings & disc brake pads		..	6,814,332
Clutch facings & linings		..	955,529
Other asbestos articles		..	2,489,154
			$ 14,334,332

YEAR 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	24,419	$ 8,370,920
Asbestos Sand & Refuse	s.tons	20,575	4,719,030
		44,994	$ 13,089,950

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	7,930,347	$ 7,137,121
Asbestos-Cement shingles & clapboard	Lb	23,483,108	5,251,777
Other asbestos-cement articles	Lb	31,614,758	11,700,122
Asbestos gaskets	Lb	8,622,624	4,509,509
Asbestos packing & seals	Lb	5,283,112	11,520,020
Asbestos insulation		..	5,192,678
Brake linings & disc brake pads		..	44,695,924
Clutch facings & linings		..	11,089,987
Other asbestos articles		..	24,875,968
			$125,973,106

Year 1977: U.S. exports of unmanufactured asbestos reached 37,390 short tons, valued at $11,700,405; exports of manufactured asbestos products were valued at $78,348,918.

JANUARY 1979

UNMANUFACTURED ASBESTOS:

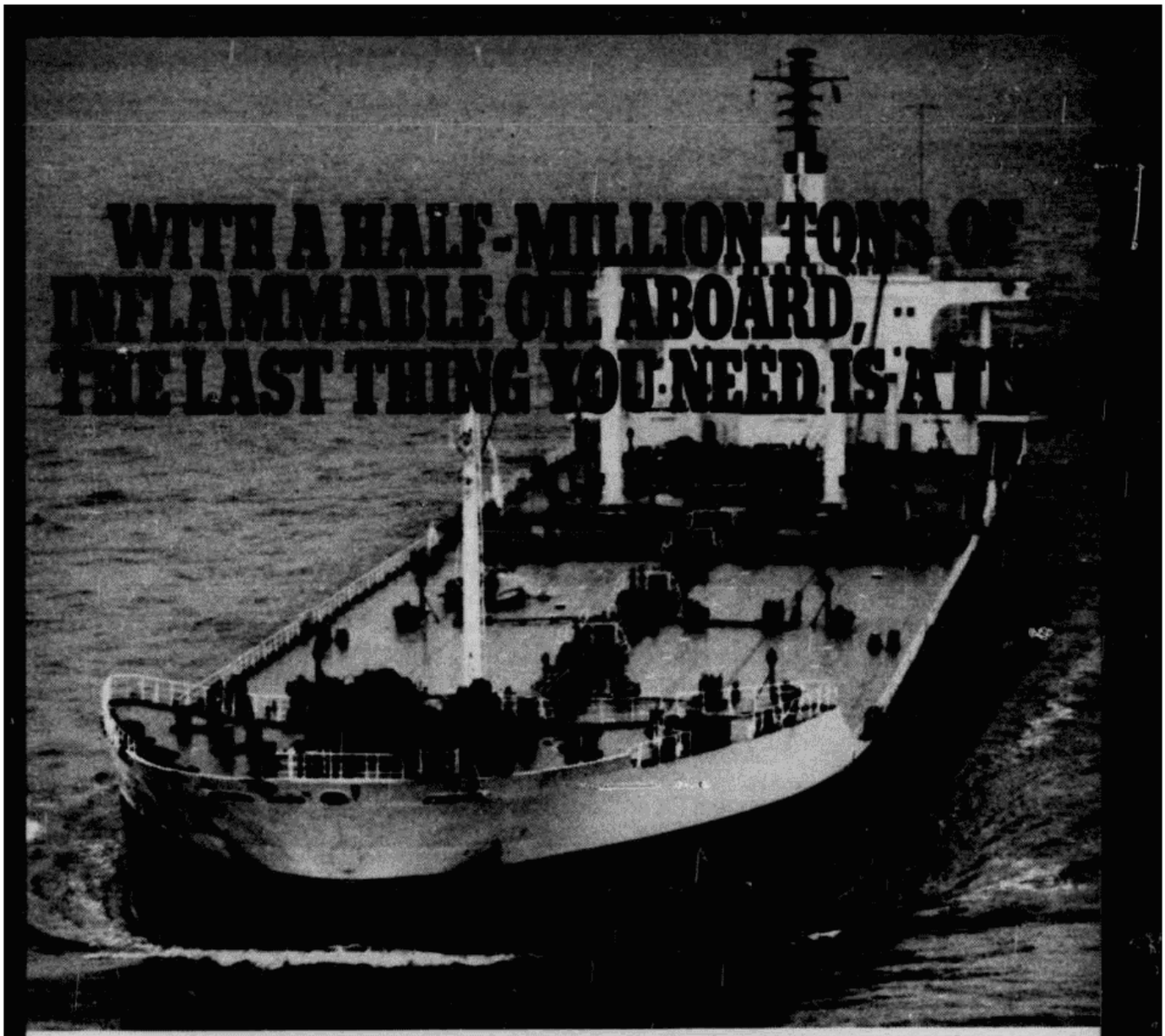
Asbestos Crudes & Stucco	s.tons	2,368	$ 887,681
Asbestos Sand & Refuse	s.tons	1,150	372,590
		3,518	$ 1,260,271

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	286,941	$ 442,217
Asbestos-Cement shingles & clapboard	Lb	1,473,436	390,017
Other asbestos-cement articles	Lb	4,064,087	1,464,968
Asbestos gaskets	Lb	586,651	319,724
Asbestos packing & seals	Lb	285,183	1,071,859
Asbestos insulation		..	441,119
Brake linings & disc brake pads		..	3,947,596
Clutch facings & linings		..	496,052
Other asbestos articles		..	1,813,276
			$10,386,828

January 1978: U.S. exports of unmanufactured asbestos reached 3,087 short tons, valued at $998,732; exports of manufactured asbestos products were valued at $6,921,744.

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The environmental consequences of a burning super-tanker would be disastrous. So would the loss of life.

An empty supertanker is even more dangerous. It can simply explode from a small spark in the wrong place.

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CURRENT ASBESTOS PRICES

QUEBEC

As of January 1, 1979

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

No. 2 Crude	$2295
No. 3 Spinning Fiber	$1032—$1606
No. 4 Asbestos Cement Fiber	687— 1011
No. 5 Paper Fiber	388— 537
No. 6 Paper and Shingle Fiber	330— 332
No. 7 Shorts	113— 218

CASSIAR

As of January 1, 1979

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

Cassiar Mine

C-1 —No. 1 Crude	$3621
AAA —Nonferrous Spinning Fiber; Canadian Group 3	2000
AA —Nonferrous Spinning Fiber; Canadian Group 3	1600
A —Nonferrous Spinning Fiber; Canadian Group 3	1050
AC —Nonferrous Spinning Fiber; Canadian Group 3	960
AK —Asbestos Cement Fiber; Canadian Group 4	850
AS —Asbestos Cement Fiber; Canadian Group 4	740
AX —Asbestos Cement Fiber; Canadian Group 4	670
AY —Asbestos Cement Fiber; Canadian Group 5	470
AZ —Asbestos Cement Fiber; Canadian Group 6	340

Clinton Mine

CT —Asbestos Cement Fiber; Canadian Group 4	$ 680
CY —Asbestos Cement Fiber; Canadian Group 5	470
CZ —Asbestos Cement Fiber; Canadian Group 6	340

VERMONT

As of January 1, 1979

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

Grade 4T Fiber	$ 591
Grade 5K Fiber	457
Grade 5R Fiber	388
Grade 6D Waste	284
Grade 7D Shorts	188
Grade 7M Shorts	108
Grade 7R Shorts	100
Hooker No. 1	1250
Hooker No. 2	700

ARIZONA

As of July 1, 1976

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

No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 Nonferrous Filtering—Plastic	$ 750— 840
Group No. 4 Nonferrous Filtering—Plastic	750— 840
Group No. 7 White Shorts	100— 200

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ANNUAL REPORTS—1978

JOHNS-MANVILLE CORPORATION

Johns-Manville Corporation, headquartered in Denver, Colorado, had a record year in 1978, achieving significant increases in revenues and earnings. *Revenues* reached $1,676,589,000, 13% ahead of the year 1977. *Net earnings* increased 18% to $121,602,000, or $5.62 per common share. At year end, *total current assets* were $644,770,000 against $601,262,000 a year ago. *Total current liabilities* were $329,292,000 vs. $235,080,000. Following the close of 1978, *Olinkraft, Inc.*, a maker of wood and paper products, headquartered in West Monroe, Louisiana, was merged into a wholly-owned subsidiary of Johns-Manville. . . . *Outlook*—In the year ahead, the company does not anticipate the economic climate to be as favorable as that of recent years, and wage and price guidelines must be expected to compound problems of maintaining appropriate margins. Management has brought under control the operating problems faced at the beginning of 1978 but is not optimistic about the possibility of recovering fully the expected increases in cost of raw materials, labor and energy.

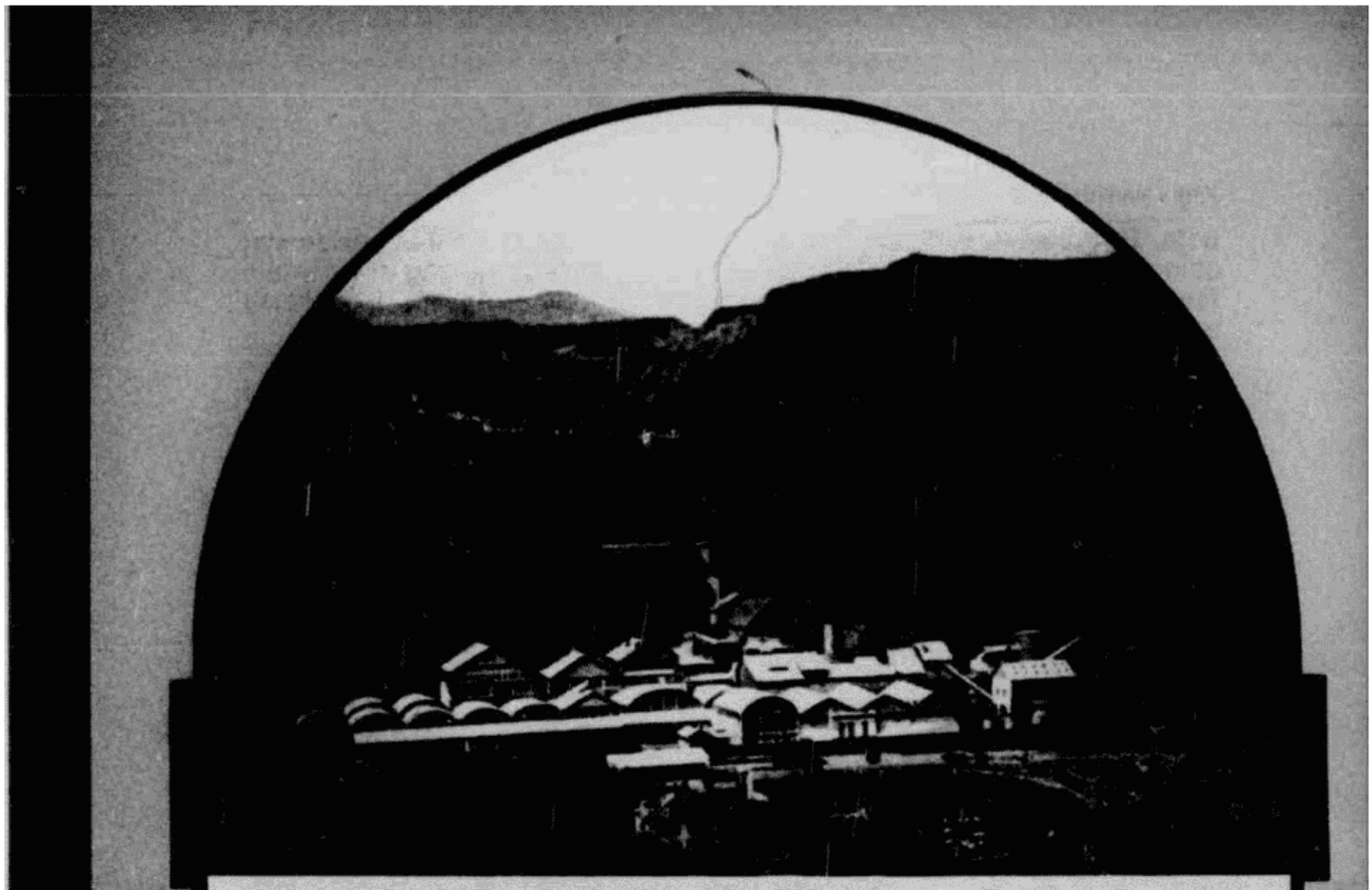
Fiber Glass Products—Revenues increased 26% to a record $514.3-million and income from operations totaled $107.3-million, also a record and 31% ahead of the prior year. Residential insulations accounted for the largest portion of the product line. This segment of J-M's business contributed 29% of net sales and 38% of income from operations.

Non-Fiber Glass Insulations—Revenues increased 18% to $231.3-million and income from operations rose 26% to $35.5-million. This business includes roof insulations, refractory fibers, calcium silicate insulations and a broad range of other commercial and industrial insulating products. The company closed its unprofitable reflective insulations facility at Manville, New Jersey during 1978. This segment of J-M's business contributed 14% of net sales and 12.6% of income from operations.

Pipe Products and Systems—Revenues rose 11% to $303.3-million and income from operations increased 10% to $25.9-million. This business turned in its best performance ever in 1978 as governmental spending for water and sewer projects increased over prior years. Other markets for pipe, residential, commercial and industrial construction expanded at a record pace. Approximately 65% of all J-M pipe sales is to the private sector; 35% goes to public works projects. Major products are polyvinyl chloride (PVC) plastic pipe and asbestos-cement pipe. J-M will expand PVC production capacity 17% in 1979 at six of its nine U.S. plants, at a cost of $9-million. The asbestos-cement pipe business operated at 70% of six-day capacity, about the same level as in 1977 and reflecting a steady demand in the marketplace. This segment of J-M's business contributed 18.4% of net sales and 9.2% of income from operations.

Roofing Products—Revenues rose 25% to a record $253.8-million and income from operations increased 69% to a record $23.2-million. This business includes residential shingle and built-up roofing for commercial and industrial structures. New construction accounted for 40% of sales; reroofing represented 60%. J-M continued its gradual conversion to fiber glass mat, rather than organic materials, as the base for its roofing prod-

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ucts. By 1980, fiber glass will be the base used in all J-M residential shingles. Additionally, a significant portion of built-up roofing will contain fiber glass. This segment of J-M's business contributed 15.4% of net sales and 8.2% of income from operations.

Asbestos Fiber—Revenue decreased 2% to $157.3-million and income from operations was down 9% to $54.6-million. This business area performed better than anticipated although revenues and income from operations dropped from 1977 levels. Principal reasons were reductions in large customer inventories of asbestos fiber (a carry-over from the prior year) and the continuing lag in recovery of Western European and Japanese markets. Asbestos fiber is sold in markets throughout the world. A major portion of that sold is used as a raw material in products where the fiber is locked in place by cement, rubber, plastics, resins, asphalts and similar binders. Products include asbestos-cement products, brake linings, resilient flooring, roofing and other products requiring strength and fire protection, heat resistance, dimensional stability and resistance to rust and rot. In these applications, asbestos fiber poses no hazard to users or the public. Good work practices and dust control programs have reduced the health concerns associated with the manufacture and use of products containing asbestos fiber. Because of the expected shortfall in business, the J-M Jeffrey Asbestos Mine in Quebec operated on a five-day schedule from January through July, although milling operations continued on a six-day basis. All operations increased to six days per week in August as demand increased. Total production in 1978 reached 590,305 tons. The five-year, $77-million program designed to improve working conditions and ensure safe mining and economical operations at Jeffrey completed its third year. World markets for asbestos fiber are expected to continue their recovery in 1979. This segment of J-M's business contributed 7% of net sales and 19.3% of income from operations.

Industrial and Specialty Products and Services—Revenues dropped 3% to $290.8-million and income from operations increased 41% to $35.9-million. This is a diverse group of businesses including Holophane lighting systems, filtration and minerals, and industrial specialties. Contribution was 16.2% of net sales and 12.7% of income from operations.

International Operations at Johns-Manville reported record revenues and earnings for nearly all business areas in 1978, primarily because of increased manufacturing capacities in Canada, Germany and France.

Johns-Manville Properties Corporation, a wholly-owned real estate subsidiary, earned $3.2-million in 1978, with profitable operations at its three projects.

Health and Safety Programs—Johns-Manville continued its historic pattern of progress during 1978 in programs designed to assure the health, safety and environmental quality of operations and activities. A *No Smoking Policy*, first developed in 1976, was implemented at all asbestos-using locations in the United States and is being expanded to Canadian and international operations. . . . Important data on use of *sputum cytology* as a screening tool in asbestos-exposed populations were generated through a corporate-wide research effort begun in 1976. Designed to study methods for early detection of cancer, the program is conducted at medical institutions across the country. . . . *Hearing conservation programs* at plants were broadened and updated by certification of personnel and addition of audiometric testing equipment.

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THE FLINTKOTE COMPANY

The Flintkote Company, Stamford, Connecticut, is a major producer of basic materials and products for the building and construction industries in the United States and Canada. The firm is also engaged in paving contract construction in certain geographic areas of both countries. The year 1978 was a record-setting year for Flintkote as sales and earnings reached new highs. The marketing opportunities for the company's products and services were exceptionally favorable throughout the year. Homebuilding was the key factor as housing starts at year-end reached 2-million, the highest since 1973. The repair and modernization segment again reached record levels, while nonresidential building and nonbuilding construction were moderately strong. *Sales* for the year increased 24% to $730,175,000 and *earnings* rose 81% to $37,721,000, or $5.31 per share. . . . Flintkote continued to grow in 1978 by investing $50-million in its operating and distribution facilities, compared with $35-million in 1977. . . . The company intends to sell its interest in Hajoca Corporation (formerly Gable Industries, Inc.) and to solicit offers to buy its interest in Adobe Oil & Gas Corporation. . . . After an extensive study of its building products and flooring operations, Flintkote decided to move the general offices of the two divisions to Irving, near Dallas, Texas.

Building Products—Net sales rose 28% to $413,998,000, producing 57% of Flintkote's total sales. Some 59% of 1978 sales were from new residential building. . . . *Stone Products*—Net sales increased 25% to $117,944,000; 16% of Flintkote's total revenue. . . . *Cement and Lime Products*—Net sales reached $128,733,000, up 24.5% from the prior year. This business produced 18% of the company's total sales in 1978. . . . *Canadian Operations*—Net sales amounted to $69.5-million in 1978 vs. $64.7-million in 1977; 9% of Flintkote's total sales.

UNION CARBIDE CORPORATION

Union Carbide Corporation ranked among the 25 largest industrial companies in the United States and among the 50 largest in the world. International operations contributed about one-third of total sales. *Sales* for the year 1978 were a record $7.87-billion, 12% above those of the previous year. *Net income* rose 2% to $394.3-million and *earnings per share* rose to $6.09, compared with $6.05 a year earlier. The *major divestiture* of the year was the sale of virtually all of UCC's chemicals and plastics operations in Europe to subsidiaries of The British Petroleum Co. Ltd. For the full year 1978, *currency adjustments* had a negative impact on earnings of 91¢ per share. The bulk of the loss represented translation into U.S. dollars of various accounts denominated in foreign currencies. . . . Worldwide sales in the *chemicals and plastics* segment rose 4% to $2.9-billion, with operating profit rising 8% to $309-million. Sales in the *gases and related products* business increased 14% to $1.3-billion and operating profit rose 12% to $167-million. *Metals and carbons* sales rose 14% to $1.4-billion although operating profit fell 18% to $166-million. Worldwide sales of *consumer-oriented products* rose 13% to $1.4-billion, with operating profit up 22% to $178-million. Sales in the *specialty products* segment increased 31% to $927-million. Operating profit was the same in each of the past two years—$48-million.

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ASBESTOS STOCK QUOTATIONS

Close—April 17, 1979

Abitibi Asbestos	C$.83
Advocate Mines	Bid C$2.40
	Asked C$2.70
Armstrong Cork	17⅜
Asarco	18½
Asbestos Corporation	C$46.50
Bendix	38¾
Carlisle	37¾
Cassiar Asbestos	C$10.50
CertainTeed	16⅛
Charter Conso.	pence 163
Colt Industries	40½
Colt Ind. (pfd 1.60)	32¾
Colt Ind. (pfd 4.25)	87½
Conwest	C$6.00
Flintkote	34⅝
F-kote (pfd-B 2.25)	47
GAF Corporation	11⅜
GAF (pfd 1.20)	15⅞
Gulf & Western	14½
G&W (pfd 2.50)	32⅞
G&W (pfd 3.87)	69¾
IC Industries	26
IC Ind (pfd 3.50)	42¼
Jim Walter Corporation	30¼
Jim Walter (pfd 1.60)	32
Johns-Manville	23¾
Johns-Manville (pfd N)	62
Kennecott Copper	22¾
Lear Siegler	19½
Lear Siegler (pfd 2.25)	49
Maremont	24¼
McAdam Mining	C$.35
National Gypsum	18⅜
Pathfinder	C$.25
Porter (pfd 5.50)	75
Raybestos-Manhattan	31⅞
Rio Algom	C$33.00
Supradur	Bid 4¾; Asked 5½
Union Carbide	37¾
United Asbestos Inc.	2.95
Woodsreef Minerals	C$.41

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MEN ON THE MOVE

ATLAS TURNER INC.

L. J. Adams has been named Vice President-Marketing for Atlas Turner Inc. (formerly Atlas Asbestos Company Ltd.), Montreal, Quebec. . . . *Frank Betts* is the company's new Director of Human Resources. . . . *Jack Coombs-Payac,* who joined Atlas Turner last November, is Manager-Corporate Communications. . . . *R. C. Castellani* was appointed Manager of the new Atlas Distribution Center at Surrey, British Columbia, officially opened March 30, 1979, by *John D. Zacharias,* President of Atlas.

CAPE INDUSTRIES LTD.

Lionel G. Stopford Sackville was elected Chairman of Cape Industries Ltd., London, England, succeeding *Ronald Henry Dent,* who will retire at the conclusion of CIL's 86th Annual General Meeting on May 22, 1979. Mr. Sackville has been a Director of the company since 1970 and Deputy Chairman since 1972. He is also an Executive Director of Charter Consolidated Ltd. and a Director of Anglo American Corporation of South Africa Ltd. . . . *Geoffrey Higham* will become Deputy Chairman of Cape. He will remain Group Managing Director, a position he has held since 1971. . . . *Dr. Kevin Browne* was recently appointed full-time Medical Adviser, succeeding *Dr. Walter J. Smither,* who retired but remains Medical Consultant.

HAZEMAG (CANADA) LTD.

Yvon C. Boyer was appointed Regional Sales Manager for Quebec, it was announced by *Dr. K. V. Lindell,* Executive Vice-President of Hazemag (Canada) Ltd. Mr. Boyer joined the firm in 1976 and is located at the head office and plant at Pointe Claire (Montreal), Quebec.

JOHNS-MANVILLE CANADA INC.

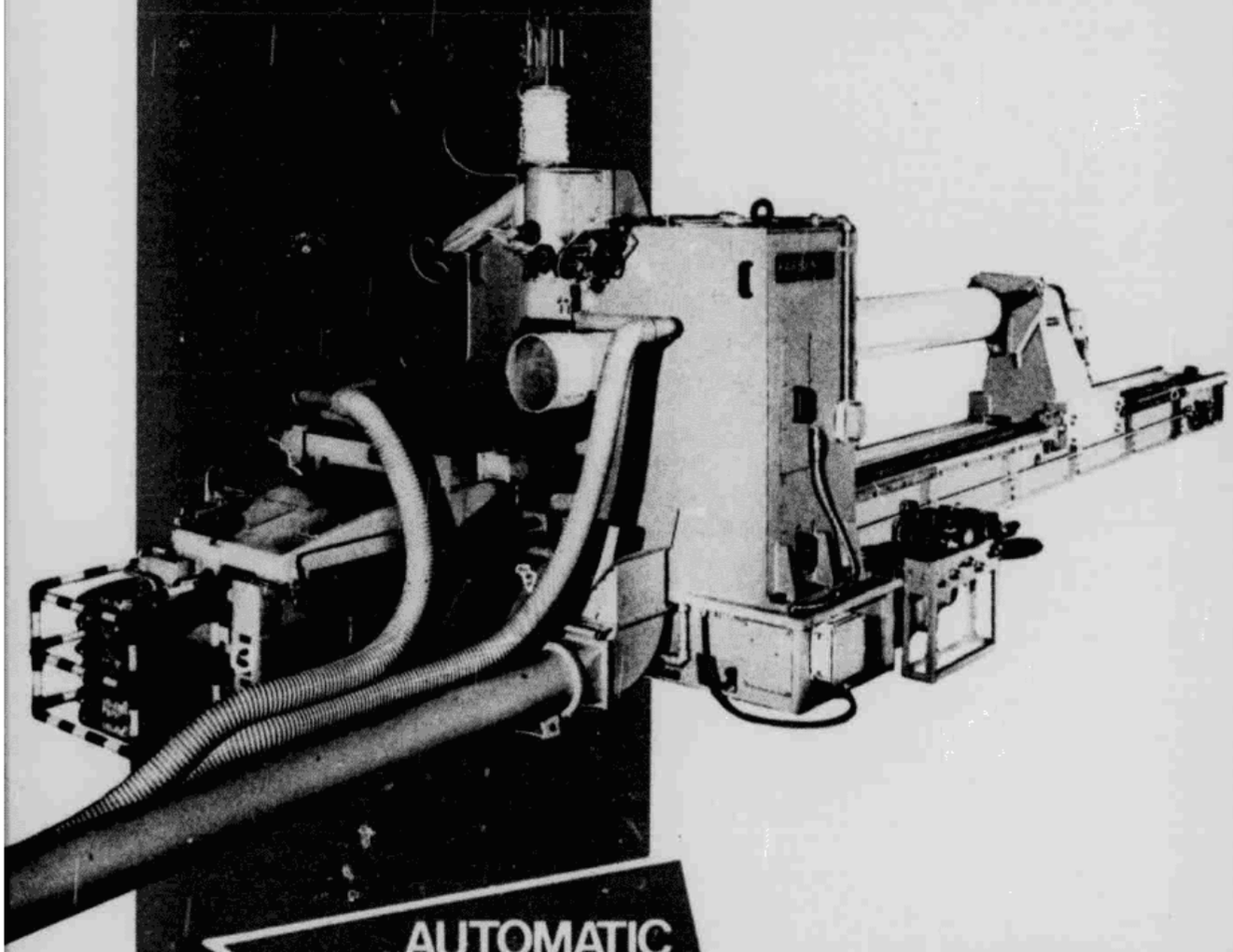
The appointment of *Jack F. Small* as General Marketing Manager, Pipe and Building Products, was announced by *G. P. Loubert,* President of Johns-Manville Canada Inc. Mr. Small had been General Marketing Manager, Pipe. He has had extensive sales experience throughout J-M Canada since joining the company in 1958.

QUEBEC ASBESTOS MINING ASSOCIATION

At the recent Annual General Assembly of the Quebec Asbestos Mining Association, the following officers were elected for the year 1979: *Marcel Dorais*—President, President of Bell Asbestos Mines Ltd.; *J. R. M. Hutcheson*—Vice President, Chairman of the Board of Johns-Manville Canada Inc.; *Paul A. Filteau*—Secretary and Executive Vice President; *R. W. King*—Treasurer, Controller of Carey-Canadian Mines Ltd.; *M. Prus*—Director, President and General Manager of Carey-Canadian Mines Ltd.; and *M. J. Messel*—Director and Immediate Past President of QAMA, President of Lac d'amiante du Quebec Ltee.

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RONALD HENRY DENT
CAPE INDUSTRIES LTD.

After 17 years as Chairman of Cape Industries Ltd., *Ronald H. Dent* has announced his intent to retire from office at the close of the company's 86th Annual General Meeting on May 22, 1979. Mr. Dent will remain on the Board as a Non-Executive Director. He has been with Cape for 32 years, having joined the Group in 1947. He was appointed a Director in 1953, Managing Director in 1957 and Chairman in 1962.

DR. WALTER J. SMITHER
CAPE INDUSTRIES LTD.

Dr. Walter J. Smither retired the end of 1978 as Group Medical Adviser to Cape Industries Ltd. A Canadian by birth and professional training, Dr. Smither went to England in 1937 and after wide experience in general and industrial practice was appointed Medical Adviser to the then Cape Asbestos Company in 1956. He has been CIL's Group Medical Adviser since 1967. He was active in the activities of the Research Committee of the U.K. Asbestosis Research Council and of the Subcommittee on Asbestos of the Standards Committee, British Occupational Hygiene Society. He remains a member of the Scientific Committee on Asbestosis of the Permanent Commission and International Association on Occupational Health and of the X-Ray Reading Panel of the Survey of Asbestos Workers, Health & Safety Executive. Dr. Smither is a world-renowned lecturer and author of literature on occupational hygiene and medicine and was recently elected a Member of the Faculty of Occupational Medicine, Royal College of Physicians. He will continue with CIL as Medical Consultant.

C. E. STIEFKEN
ASARCO INC.

C. E. (Chuck) Stiefken will retire the end of May 1979 from Asarco Inc., after 33½ years of service with the company. Upon graduating with a degree in Mining Engineering from the Colorado School of Mines, Mr. Stiefken began his career with Anaconda Copper Company, at Butte, Montana. A stint with the U.S. Bureau of Mines was followed by a long tenure with Asarco at its Central Research Laboratories, South Plainfield, New Jersey. Since 1959 he has been involved with Asarco's Lake Asbestos subsidiary as Section Head of the Asbestos Laboratory. He has been active in the Asbestos Textile Institute, Inc., having been a member and chairman of its Fiber Research & Testing Committee. Committees of the American Society for Testing and Materials on which he served included C-17 on Asbestos-Cement Products, D-30 on High Modulus Fibers and their Composites and E-34 on Occupational Health and Safety. He is a member of the Society of Mining Engineers of AIME and Sigma Psi, the Scientific Research Society of North America.

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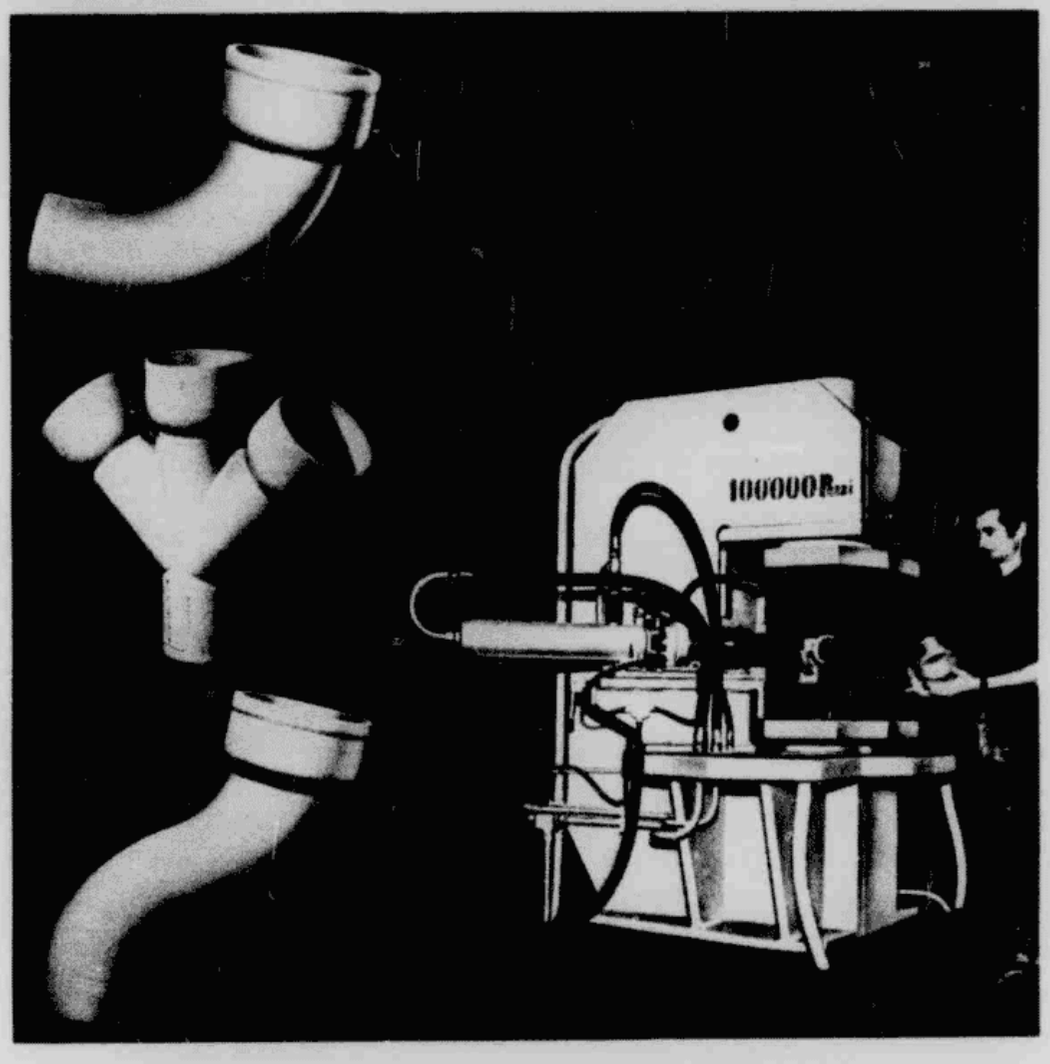
BIRTHDAY GREETINGS to . . .

D. H. Pillinger, Managing Director, BBA Automotive Ltd., a subsidiary of BBA Group Ltd., Cleckheaton, Yorkshire, England, June 16.
Wolfgang Graeser, Vice President-European Operations, Asbestos Corporation Ltd., Montreal, Quebec, June 19.
James F. Maclachlan, Executive Vice President, Raybestos-Manhattan, Inc., Trumbull, Connecticut, June 19.
D. O. Poirier, General Manager, Flintkote Mines Ltd., Thetford Mines, Quebec, June 19.
Jean Gaudry, General Manager of Sales and Marketing, Asbestos Corporation Ltd., Montreal, Quebec, June 21.
Michael Prus, President and General Manager, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, June 21.
Frederick S. Daly, President, Raybestos Friction Materials Company, Trumbull, Connecticut, June 22.
John W. Weber, Chairman of the Board and Chief Executive Officer, Amatex Corporation, Norristown, Pennsylvania, June 22.
H. A. Guettinger, Technical Manager, Everite Ltd., Braamfontein, Johannesburg, Republic of South Africa, June 23.
Marcel Dorais, President and General Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 25.
S. M. Dougherty, Managing Director, Cape Asbestos South Africa (Pty) Ltd., Johannesburg, Republic of South Africa, June 25.
Samuel G. Leyshock, Director of Engineering and New Development, Cement Asbestos Products Company, Birmingham, Alabama, June 26.
J. F. H. Main, Chairman, Trist, Draper Ltd., a principal subsidiary of Cape Industries Ltd., Bristol, England, June 26.
Lutz Siebert, International Sales Manager, Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, June 27.
Edward W. Drislane, Secretary, Friction Materials Standards Institute, Inc., Paramus, New Jersey, June 29.
Glenn Harding, Sales Representative, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, June 29.
Robert A. Carlson, Vice President, Special Materials, Inc., Milwaukee, Wisconsin, June 30.
R. P. Druett, Deputy Chairman, Engineering Components Ltd., a Turner & Newall Company, Slough, England, July 7.
Roland P. Gagnon, Vice President-Sales, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, July 7.
J. W. Echerd, Director of Research and Development, Southern Textile Corporation, Charlotte, North Carolina, July 9.
Barney Kovacs, General Manager-Thetford Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, July 9.
Donald L. Andrew, Secretary, Pacor Inc., Philadelphia, Pennsylvania, July 11.
I. L. Taylor, Vice President-Sales, Cement Asbestos Products Company, Birmingham, Alabama, July 12.
R. Frank Carmazzi, a Sales Representative, Southern Textile Corporation, Urbana, Ohio, July 13.
John F. Sullivan, Jr., Chairman of the Board, A & M Insulation Company, Chicago, Illinois, July 13.
Robert L. Folkman, Senior Vice President, Metals Division, Union Carbide Corporation, New York City, July 14.

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MECHANICAL PROCESSES FOR RECOVERING VALUABLE MATTER FROM HARD ASBESTOS-CEMENT WASTE—Deals with the possibilities and limitations of the utilization of hard fibrous cement waste, noting that recycling of valuable matter is an ecological-economic necessity; refers to advances in the design of fibrous cement reduction machinery. [Reprints available from the author: Prof. Dr.-Ing. H. Posch, Koenigsallee 14H, 1 Berlin 33 (Grunewald), Germany]

SEMIQUANTITATIVE CHEMICAL ANALYSIS OF ASBESTOS FIBERS AND CLAY MINERALS WITH AN ANALYTICAL ELECTRON MICROSCOPE—By H. Hayashi of Akita University, Akita, Japan, and S. Aita and M. Suzuki of JEOL Ltd., Akishima, Japan; by using a transmission electron microscope equipped with an energy dispersive spectrometer, it was possible to detect the morphological, structural and chemical characteristics of individual asbestos fibers and clay minerals without any realignment of the equipment; application to asbestos fibers proved method to be practical and valid for characterization of asbestos in environmental and tissue samples. [Clays and Clay Minerals, Vol. 26, No. 3, 1978; 8 pages]

ANALYSIS OF NEW METHODS FOR MEASUREMENT AND DETERMINATION OF HEALTH HAZARDOUS MINERAL DUSTS IN WEST GERMANY—By Dipl.inz. S. Kisic; includes explanatory examples and a review of Yugoslav corresponding regulations. [Rudarski Glasnik/Bulletin of Mines, March 1978; written in Yugoslavian; 8 pages]

MAGNETIC SEPARATION OF MINERALS—By A. F. Israelson, P.E., Eriez Magnetics; outlines some recent advances in the use of magnetism for mineral processing, i.e., permanent magnets, high intensity wet magnetic separation and cryogenic magnetic separation. [Mining Magazine, September 1978; 5 pages]

AMMR AT SHABANIE—Describes a visit to the Shabanie Mine, Rhodesia, by the Association of Mine Managers of Rhodesia; visit included tours of the underground operations and of the surface plant. [Chamber of Mines Journal, September 1978; 2 pages]

ORE MICROSCOPY APPLIED TO BENEFICIATION—By R. D. Hagni, University of Missouri-Rolla; illustrates the variety of beneficiation problems for which the ore microscope is applicable; these problems and their resolution demonstrate the importance of the instrument and show the value of close coordination between the mill dressing engineer and the ore microscopist. [Mining Engineering, October 1978; 11 pages]

NEW CONCEPTS AND TOOLS IN DECISION-MAKING FOR THE MINING INDUSTRY—By A. Weiss, Exxon Corporation; traces the history of computer technology and how the computer can be used as an information machine; describes what is necessary to successfully apply computer techniques and operations research in the minerals community. [Mining Engineering, November 1978; 7 pages]

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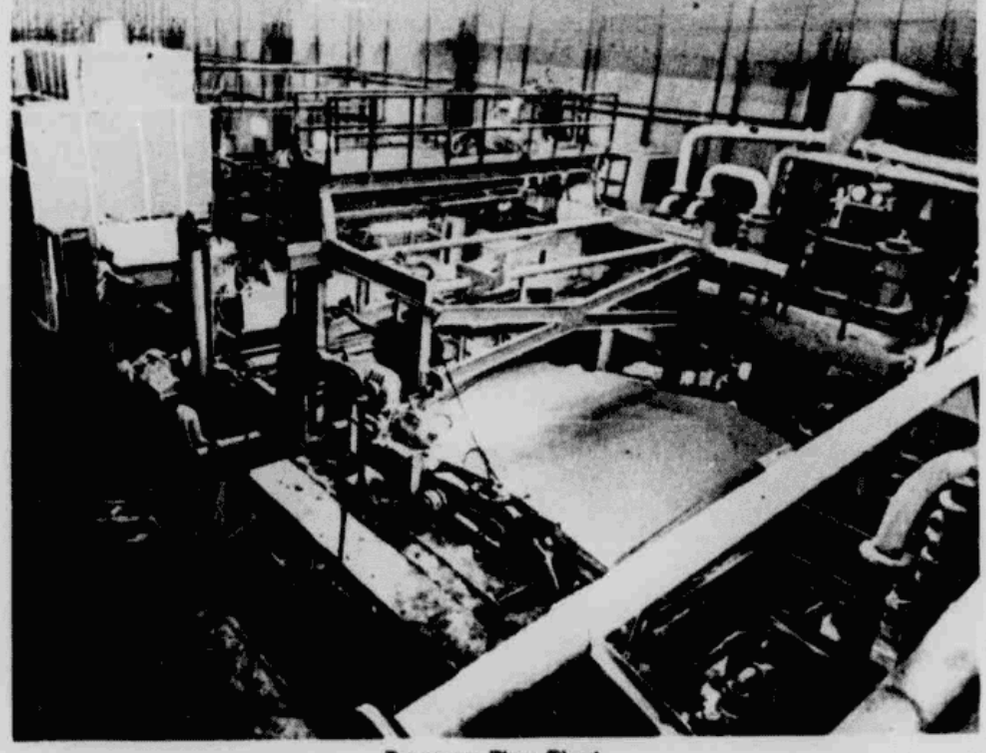
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NEW ASBESTOS PATENTS

U.S. PATENTS MAY BE PURCHASED FROM THE COMMISSIONER OF PATENTS, WASHINGTON, D.C. 20231, @50¢ EACH. PHOTOPRINTS OF NON-U.S. PATENTS MAY BE PURCHASED FROM THE SAME SOURCE AT A COST OF 30¢ PER PAGE. REMITTANCES SHOULD BE IN COIN, CURRENCY OR CHECK AND THE NUMBER OF THE PATENT, NAME OF INVENTOR AND DATE OF ISSUE SHOULD BE GIVEN.

British 1,524,091—An improved composition for sealing coke oven doors, cracks, gaps or spigot-joints comprises 25%-55% of a polyvinyl acetate-base latex, 10%-20% of additional water, 25%-45% of minus 200-mesh talc or other particulate filler and 5%-15% of Amosite or other asbestos; J. A. Davidson, G. W. Hall, N. J. Hodges & D. W. Price; assigned to Coal Industry (Patents) Ltd., September 6, 1978; 3 pages.

British 1,527,666—In the electrolysis of sodium chloride brine in a cell having compartments separated by an asbestos diaphragm, the formation of chlorate ions in the anolyte liquor is minimized and the chlorine product is maintained at a constant hydrogen ion concentration by adding powdered asbestos to the anolyte; T. C. Jeffery; assigned to PPG Industries, Inc., October 4, 1978; 10 pages.

British 1,529,091—Consumption of expensive cashew nutshell liquid is lessened by fabricating vehicle brakes from a mixture of up to 55% by weight of asbestos, up to 25% each of rubber scrap or other organic modifier and cashew nut powder, up to 20% of graphite, up to 35% of thermosetting phenolic formaldehyde resin and up to 30% of lignosulfonate or kraft lignin; assigned to Bendix Corporation, October 18, 1978; 13 pages.

British 1,530,257/8—In these two patents a reinforced thermoplastic moulding composition of improved flexural and impact strength is made from nylon 6, nylon 11 or nylon 12 having dispersed therein (1) 1%-60% by weight of Chrysotile, Anthophyllite, Amosite or Tremolite asbestos and (2) 0.05%-5% of N,N'-diphenyl-para-phenylene diamine and optionally potassium iodide or lithium chloride; A. Lord; assigned to TBA Industrial Products Ltd., October 25, 1978; 5 pages and 3 pages, respectively.

Canadian 1,039,471—In the manufacture of asbestos yarn, elongate continuous streams of a dispersion of asbestos, water and dispersion-forming chemicals are coagulated, the untwisted strands treated to remove chemicals and residues and the water content lowered to not more than 20% by weight, and thereafter processing the strands into a final yarn of desired flexibility, improved strength and greater bulk; R. Huggett; assigned to TBA Industrial Products Ltd., October 3, 1978; 13 pages.

U.S 4,132,556—Manufactured aggregates or other reinforced structural conglomerates for use in asphaltic or hydraulic binders are made from a mixture of Portland cement, gypsum, polyolefin fibers, asbestos and talc which is formed into balls or other shapes and the binder allowed to harden; P. Camprincoli & L. Rosati; assigned to Montefibre S.A., January 2, 1979; 5 pages.

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CALENDAR OF EVENTS

NEW YORK MICROSCOPICAL SOCIETY—Workshop/conference titled Dialogues '79; will cover photomacrography, photomicrography and microscopy, including the SEM; Statler Hilton, New York City, *May 28-June 1.*

THE FEDERAL MINE SAFETY AND HEALTH ACT—Conference of Practising Law Institute; *May 31-June 1* in Chicago, Illinois; *June 28-29* in San Francisco, California.

ASBESTOS-CEMENT PRODUCTS—Meeting of Committee C-17 of the American Society for Testing and Materials; Jackson Hole, Wyoming, *June 4-6.*

FUNDAMENTALS OF MINING—Short Course sponsored by the Mackay School of Mines; University of Nevada, Reno, Nevada, *June 4-8.*

INTRODUCTION TO INDUSTRIAL HYGIENE—Training Course of the American Industrial Hygiene Association; Hartford, Connecticut, *June 4-8.*

FIBROUS COMPOSITE STRUCTURES—Continuing Engineering Education Program; The George Washington University, Washington, D.C., *June 5-8.*

DIVERSIFICATION PLANNING—Conference on how to plan a search for new products, businesses and markets; Battelle's Columbus Division, Columbus, Ohio, *June 6-7.*

FLUID SEALING ASSOCIATION—1979 Spring Meeting; Homestead, Hot Springs, Virginia, *June 6-8.*

CURRENT BLASTING PRACTICE—Seminar presented by Precision Blasting Services; St. Louis, Missouri, *June 12-14.*

GEOLOGY OF INDUSTRIAL MINERALS—15th Annual Forum of the Colorado Geological Survey; Golden, Colorado, *June 13-15.*

ULTRASONIC IMAGING & TISSUE CHARACTERIZATION—4th International Symposium cosponsored by the National Bureau of Standards and the National Institutes of Health; Gaithersburg, Maryland, *June 18-20.*

RAPID EXCAVATION & TUNNELING—Conference of The American Institute of Mining, Metallurgical and Petroleum Engineers and The American Society of Civil Engineers; Atlanta, Georgia, *June 18-21.*

NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION—43rd Annual Education Conference; will cover occupational and radiological health, accident control and consumer product safety; Charleston, South Carolina, *June 23-28.*

AIR POLLUTION CONTROL ASSOCIATION—72nd Annual Meeting and Exhibition; Cincinnati, Ohio, *June 24-29.*

SCANNING ELECTRON MICROSCOPY & X-RAY MICROANALYSIS—Short Course directed by Prof. J. I. Goldstein; Lehigh University, Bethlehem, Pennsylvania, *June 25-29.*

SAFETY EXPO 79—Industrial Safety/Health/Plant Protection Conference and Exposition; New York City, *June 26-28.*

MINING MACHINERY—International Conference supported by several companies and the Queensland State Government; University of Queensland, St. Lucia, Brisbane, Australia, *July 2-6.*

APPLICATIONS OF MICROSCOPY & X-RAY DIFFRACTION—International Symposium of McCrone Research Institute Ltd.; King's College, Cambridge, England, *July 16-20.*

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Remember When?

(April 1929 ASBESTOS)

New Advertisers: S. Rhys, London, England;
Vermont Asbestos Corporation, Eden, Vermont.

This issue noted the death of J. W. Mooney, President of Johnson's Company, Thetford Mines, Quebec, who passed away March 26, 1929, at age 72. Mr. Mooney was appointed a Director of Johnson's in 1892, became Vice President in 1907 and succeeded Ar[illegible] Johnson as President in 1926.

Johns-Manville Corporation reported the election of William R. Seigle as Chairman of the Board of Directors, succeeding H. E. Manville, resigned. Mr. Seigle had been Vice Pre[illegible] in charge of Mines and Factories. Elected President, to succeed Theodore [illegible]rsales, deceased, was Lewis H. Brown, formerly Assistant to the Presiden[illegible] and Secretary of the Corporation. Mr. Brown had been associated with Mr. Merseles [illegible]uring the reorganization of Montgomery Ward and the two had moved to [illegible]hns-Manville at the same time. S. A. Williams was elected Vice President in charge of Mines and Factories, J. S. Adams became Assistant to the President and E. M. Voorhees became Secretary, while retaining his position as Treasurer.

Johns-Manville announced its acquisition of exclusive rights to manufacture and sell Transite asbestos-cement pipe in the U.S. and Canada, under patents held by Eternit Pietra Artificiale, S.A., Genoa, Italy.

(May 1929 ASBESTOS)

New Advertiser: Carl Bindman & Co., New York City.

The death of William G. Ross, President and General Manager of Asbestos Corporation Ltd., occurred April 15, 1929. Mr. Ross had assumed the direction of Asbestos Corporation of Canada in 1912, when that company's affairs were at a low ebb, and built it into a successful enterprise which became the keystone of Asbestos Corporation Ltd., the largest producer of raw asbestos in the world at that time.

The sale of the entire business of Garlock Packing Company to White, Weld & Co., Marine Union Investors, Inc., of Buffalo, New York, and Sage, Wolcott & Steele, of Rochester, New York, was announced. At the time, Garlock was probably the largest manufacturer of mechanical packings in the U.S. George L. Abbott, who had been connected with Garlock since 1910, was to continue as President and General Manager.

What was purported to be the largest fireproof asbestos theater curtain in the world was completed by Keasbey & Mattison at its Ambler plant and shipped to the new Convention Hall at Atlantic City, New Jersey. The curtain was 54′ high, 114′ wide and weighed about 6,000 lbs.

The Russell Manufacturing Company, of Middletown, Connecticut, completed arrangements to act as national distributors of Rusco Dartmouth-Tex airplane cloth, used as a standard covering by most of the largest manufacturers of military and commercial aircraft.

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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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When our asbestos is used in the manufacture of gaskets, it becomes "locked in." That way our customers can keep on using it.

Although many gaskets contain up to 80% asbestos fibers, they can be cut with no significant release of asbestos into the atmosphere. That's because in gaskets or in other finished products containing asbestos, the asbestos is "locked in" with rubber, cement, asphalt, latex, or other binders, to provide environmentally safe materials. Once "locked in," the release of asbestos into the environment will not be significant during normal product end use.

As a result, our customers can continue taking advantage of the unique properties of asbestos. In thousands of asbestos-containing products, asbestos serves an essential function that has not been duplicated on a cost-performance basis.

While EPA and OSHA have established standards that limit the amount of airborne asbestos generated during production or fabrication of a product in factory or finished products where the asbestos is "locked in."

As one of the world's leading suppliers of asbestos, we at Johns-Manville are vitally concerned with helping our customers meet these standards. On any problem anywhere, we're ready to help.

We have years of experience in creating systems that effectively and economically control asbestos dust generated in the handling of asbestos fiber and in the machining and fabricating of products containing asbestos. Our experience can help you to eliminate or substantially reduce employee exposure to asbestos.

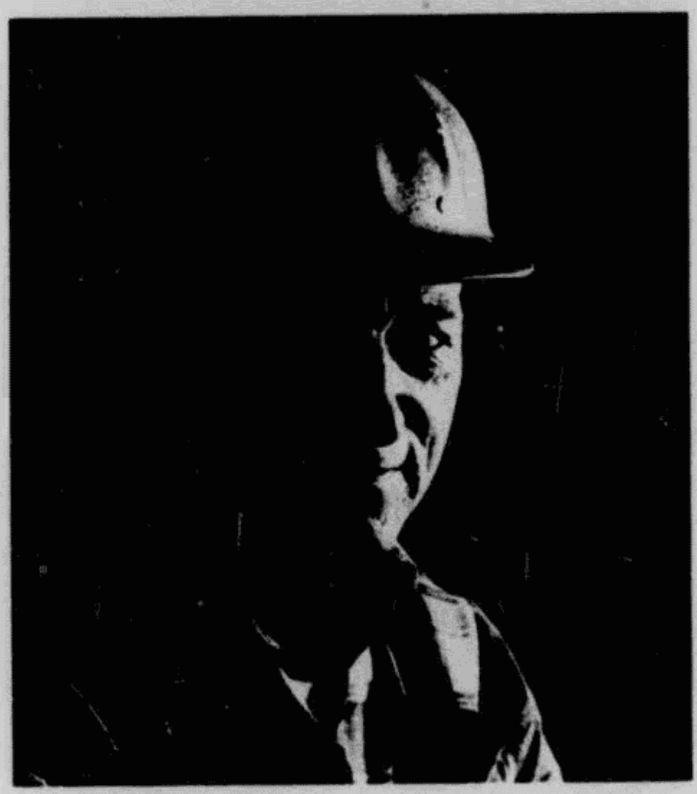
For example, we package asbestos in pulpable bags that are added directly to the mix where they disperse along with the asbestos. Other bags can be opened automatically with dust-controlled

In shipping, we utilize damage-free bulkhead rail cars and shrink-wrapped palletized units to help prevent damage during shipment and storage. We're also developing new methods of shipping such as high-density fiber blocks and other innovations that will help maintain dust-free environments and make it easier to handle asbestos safely.

We'd like to help. For more information on the safe handling of asbestos, write on your company letterhead to Jim Reis, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, CO 80217.

JM

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You can't sell asbestos to industry unless you get out and gain an understanding of the complexities of day to day business. That's what it takes, so that's what we do at Carey-Canadian.

You want the right grade at the right time, at the right price. That's why your Carey-Canadian man stands by you from the drawing board 'til the day your finished product rolls off the line. He will assure that you will get the proper grade of asbestos when you want it. And he will aid you with production problems, scheduling and delivery. That's his job . . . to serve you any way he's needed.

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