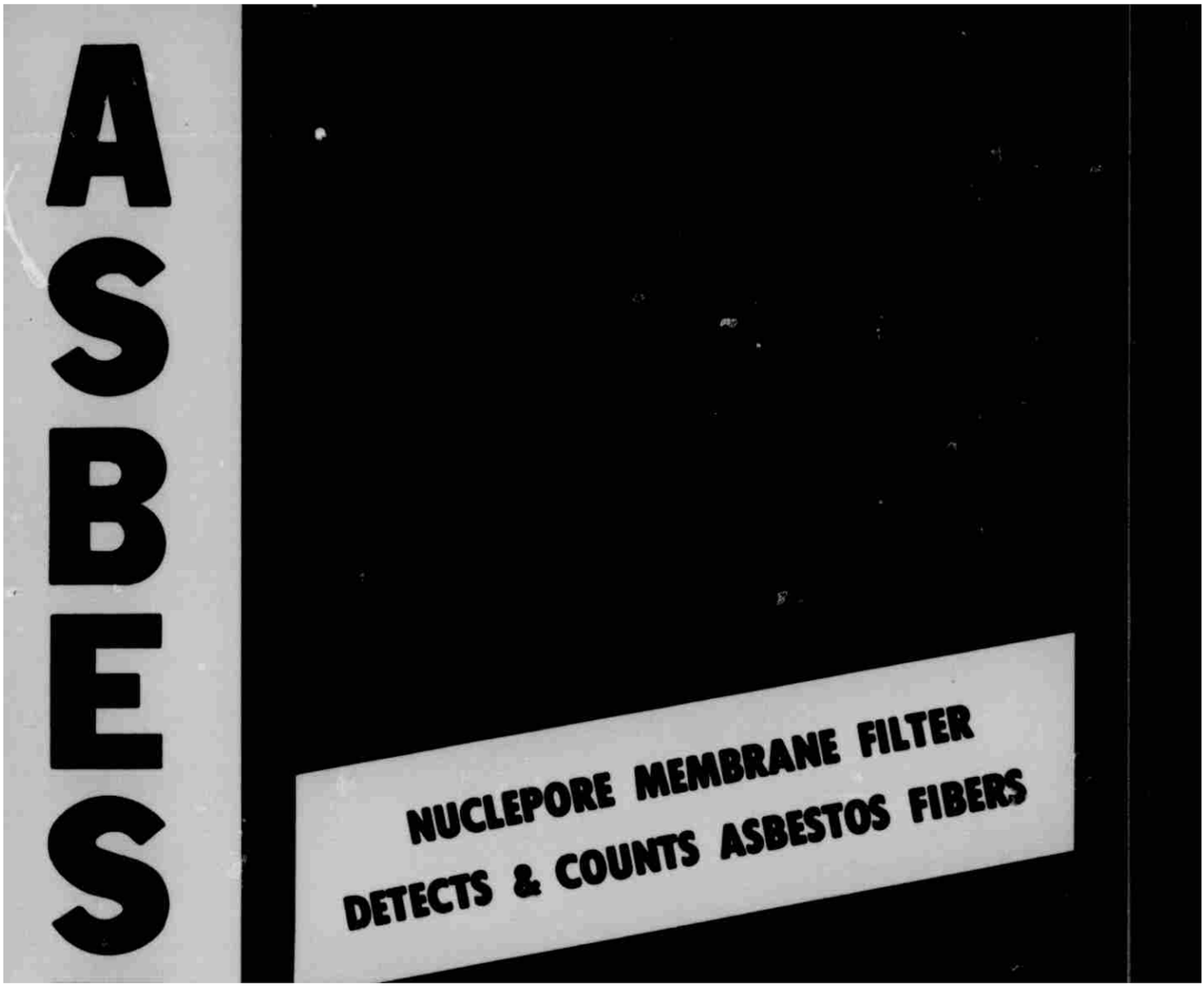


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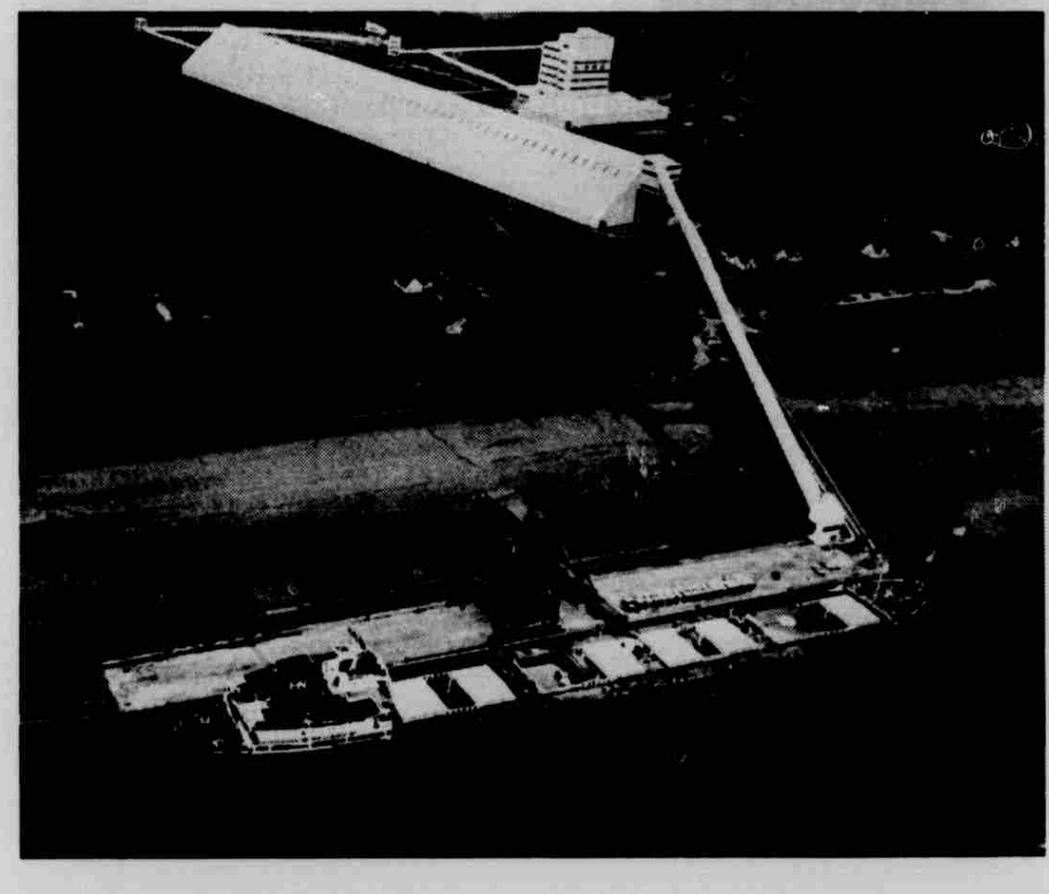
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ASBESTOS

VOLUME 57 AUGUST 1975 NUMBER 2

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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ASBESTOS is indexed regularly by Engineering Index, Inc.

Microfilms of back issues may be obtained from University Microfilms, 300 North Zeeb Road, Ann Arbor, Michigan 48106.

PROPRIETOR: Stover Publishing Company
EDITOR: Doris M. Fagan PUBLISHER: Carrell J. Stover

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Second Class Postage Paid at Willow Grove, Pennsylvania, U.S.A.

SUBSCRIPTION RATES—United States, $4.00 per year; All Other Countries, add $1.00 for postage; Current Copies, 35 cents each; Back Copies, 50 cents each; payable in U.S. Funds to: ASBESTOS, 131 North York Road (P. O. Box 471) Willow Grove, Pennsylvania 19090. Telephone: (215) 659-0134

METHODOLOGY FOR DETECTION & COUNTING OF ASBESTOS FIBERS

Based on a paper by Dr. M. C. Porter, Vice President of Research and Development, and R. G. Berggren, Research Chemist, Nuclepore Corporation, Pleasanton, California.

The key to reliable detection and counting of asbestos fibers is the selection of an appropriate substrate for collection and viewing of the fibers with an electron microscope. In the last five years a new membrane filter has evolved which makes possible ideal collection, preparation and viewing of particulates—whether from aerosols or liquid media.

Membrane filters have pore sizes ranging between 300Å to 12 microns and may be broadly categorized into two major types according to pore configuration: a cellulose ester membrane filter which has a homogenous, sponge-like pore network and a Nuclepore membrane filter which is unique because of its sieve-like, straight-through cylindrical pores.

The Nuclepore membrane has a lower porosity (10% compared to 80% for the cellulosic membrane) but is only one-twelfth as thick, resulting in higher or equivalent flow rates due to less resistance to flow. This is important since air and liquid samples are passed through the membrane to obtain relatively uniform distributions of particulates over the surface. However, the high porosity (and consequent high surface area) of the sponge-like membranes are associated with a higher dirt-loading capacity permitting collection of larger quantities of particulates before plugging.

Although both membranes are widely used for particulate and aerosol analysis, the Nuclepore membrane has been recognized to possess some unique advantages for particulate sample collection, preparation and analysis.

SCANNING ELECTRON MICROSCOPY

The measurement of asbestos fiber diameters is greatly facilitated by the transmission electron microscope due to its superior resolution. However, for general membrane counts where fiber numbers are more important than dimensions, it is believed that the scanning electron microscope (SEM) is equally reliable and more convenient.

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The membrane sample is easily mounted on a brass stub with conductive silver paint and coated with a 300Å thick gold film in a matter of minutes. The SEM facilitates rapid scanning so that a larger area may be counted.

When using an SEM to show Chrysotile asbestos fibers on the surface, individual fibrils (300-500Å in diameter) and fibril bundles (up to 2000Å diameter) are easily seen. The 0.2µm pores provide a convenient built-in calibration (2000Å) for estimating fiber diameter.

For a study conducted by Nuclepore, a relatively pure sample of Chrysotile asbestos was obtained. For more contaminated samples, asbestos fibers can be distinguished from other fibers and particulates by looking at the fractured ends. Because of their differences in structure, the fractured ends of asbestos fibers are irregular and resemble a bundle of fragile sticks which have been broken transversely. This irregular profile with multiple step-like projections and depressions is not seen with non-asbestos fibers which are generally homogeneous in character and exhibit uninterrupted linear profiles at the fractured ends. In addition, scanning electron microscopy (surface view) shows the longitudinal, parallel delineation of individual asbestos fibrils, whereas a sample of a non-asbestos fiber is devoid of such longitudinal lines.

Doubtful cases can be resolved with the use of electron diffraction, microprobe techniques or x-ray fluorescence spectrometry.

Estimates of the total number of fibers collected on a membrane can be made by counting the number of fibers on a statistically appropriate number of fields in the SEM. This, in turn, can be directly related to the volume of the original liquid suspension and the concentration of fibers in that suspension.

RETENTION OF ASBESTOS FIBERS ON NUCLEPORE MEMBRANES

The retention of Chrysotile asbestos fibers was studied on six different pore size Nuclepore membranes. The Chrysotile variety was selected for several reasons including the fact that with individual fibril diameters down to 300 Angstroms, it represents the smallest commonly-known fiber and should, therefore, present the membrane with its severest challenge.

The asbestos used was a highly-refined, purified fiber containing more than 98% Chrysotile fiber and less than 0.7% magnetite. It is unique in that it is said to contain a higher concentra-

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tion of fully-liberated asbestos fibrils than any other Chrysotile product. It has been estimated there are about $1x10^{14}$ colloidal fibrils per gram of the asbestos selected for the study. Since the "stock" suspension was required to have a concentration of $1-5x10^{10}$ fibrils per milliliter, 0.3 gram was suspended in one liter of ultrapure water using a blender to yield a theoretical concentration of $3x10^{10}$ fibrils per ml. The resulting suspension was allowed to settle overnight and the uppermost 100 ml withdrawn by pipette. This 100 ml was labeled "stock" suspension. Serial dilutions were then made from the "stock" suspension; each dilution was 100 fold. The "stock" suspension and its various dilutions were then filtered through a 0.1µm pore size Nuclepore membrane to determine the concentrations of the suspensions. The results were as follows: Stock—$1.29x10^{10}$/ml; A—$1.29x10^{8}$/ml; B—$1.29x10^{6}$/ml; C—$1.29x10^{4}$/ml; and D—$1.29x10^{2}$/ml. The stock solution had 43% of the theoretical concentration which is not unreasonable when 24-hour settling is taken into account.

Exceptional precautions were taken to eliminate background counts in the study. The researchers had access to water from Nuclepore's ultrapure water loop. This is a recirculating loop utilizing reverse osmosis, ion exchange, UV sterilization and final filtration with a 0.2µm pore size Nuclepore pleated cartridge.

Blanks were run passing one-liter samples of the ultrapure water through the test hardware (washed in ultrapure water), collecting on a 0.1µm Nuclepore membrane and scanning with the electron microscope. Because of the exceptional cleanliness of the membrane in these scans, 860 fields were scanned at 10,000X (each having an area of $10^{6}cm^{2}$) on each SEM mount (a square measuring 0.43cm x 0.43cm). The scans were made in the form of a cross. SEM mounts were made from different positions on the membrane filter to check against mal-distribution of contamination.

No asbestos fibers were discovered in the course of these scans. One organic fiber (lint, perhaps) was detected on one of the "blanks"—probably due to contamination from the atmosphere while transferring the membrane sample from its holder to the SEM mounting stub.

The reliable zero background count greatly facilitated interpretation of results.

Challenge Tests—The determination of retention of asbestos fibers by the six pore sizes of Nuclepore membranes

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tested was accomplished by a two-stage filtration: (1) the challenge suspension was passed through the test membrane in a 47mm Nuclepore Swin-Lok polycarbonate holder; (2) the filtrate from this holder (which was potentially contaminated with fibers which slipped through the pores of the test filter) was then passed through a 47mm, or 13mm, 0.1µm Nuclepore membrane held in a Hydrosol (funnel-type) stainless-steel filter holder. . . . The collection filter (0.1µm) was removed from its holder and one or more sections cut out for mounting on a brass SEM stub. For samples having low counts of fibers on the membrane surface, three cuts were made (center, mid-radius and edge) to check for mal-distribution of particles in the Hydrosol type of holder. . . . Two standard challenges were selected for use in testing all pore sizes from 0.1µm to 1.0µm — 1.29×10^{10} and 1.29×10^{11} fibers. This was a compromise between the desire to insure that every pore in the membrane was challenged and the fear of significant fiber "matting" which would increase the apparent retention of fibers by the membrane. If fibers are capable of passing through the pores of a specific membrane, a certain number will pass through before a matte can form. In other words, a membrane which shows absolute retention for asbestos cannot be said to do so because of fiber matting.

Fiber Counting Procedures—Fiber counting was usually done at 10,000X. Three counting procedures were used depending on the number of fibers found on the 0.1µm collection filter

CONCLUSIONS

Retention studies indicated that the 0.4µm pore size offers virtually complete retention of all Chrysotile asbestos fibers while the 0.2µm and 0.1µm pore sizes provide absolute retention. Increasing challenge levels resulted in decreased fiber passage presumably due to fiber matting. The effect was most pronounced at challenge levels above 10^8 fibers/cm^2.

Dr. K. R. Spurny (and others), of the Institute of Aerobiology in Germany, developed a simple technique to measure ambient airborne asbestos levels. The "Spurny method" uses two Nuclepore membranes in series, with flow rate and pore size being the critical parameters. At about 8 l/m, a 5µm pore-size membrane prefilter collects over half the total particulate in the air but virtually none of the asbestos. A 0.2µm membrane downstream then captures all the asbestos. Nuclepore has developed a multi-membrane holder which it says is ideal for Dr. Spurny's technique. The holder comes in 25mm and 47mm sizes and can be used for serial filtration of both air and liquid suspensions.

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R/M EXPANDS NOVATEX OPERATION

The Board of Directors of Raybestos-Manhattan, Inc., approved an $11-million, 4-year program that includes expansion of the firm's proprietary "wet process" system of manufacturing NOVATEX® asbestos yarns. The system, which is protected by patents and substantial additional proprietary knowledge, utilizes the more-plentiful and less-costly grades of asbestos fibers and permits working conditions that are well within the standards of the U.S. Occupational Safety and Health Administration for airborne asbestos dust concentrations. R/M developed the process for producing NOVATEX yarn and is the only U.S. manufacturer who uses the system. . . . According to William S. Simpson, Chief Executive Officer and Chairman of the Board, the program will be financed by internally-generated funds and will result in a major restructuring of R/M's asbestos yarn and textile manufacturing operations. R/M plans to increase NOVATEX yarn capacity to the level necessary to replace conventional yarn for most of its industrial textiles, packings and seal products. As the planned capacity is reached, R/M will dismantle the obsoleted yarn equipment which is already substantially depreciated. R/M expects to accomplish these changes without interrupting its earnings progress during the conversion period.

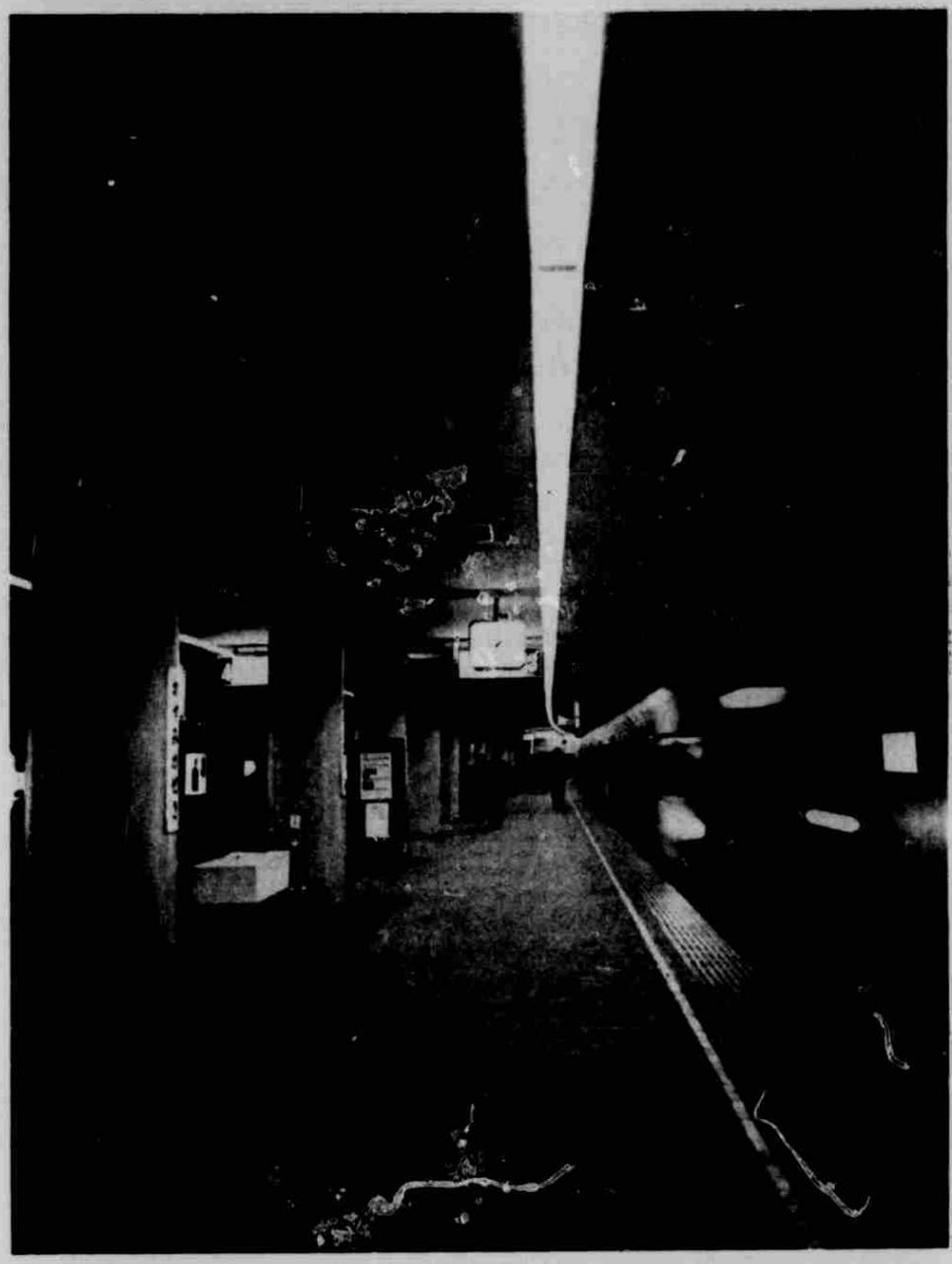
NEW COOLING TOWER FILL

Excellent performance and long life for cooling towers are possible when using "MNA" Wet Deck Surface, according to Baltimore Aircoil Company, Inc. The new type of fill material was developed by BAC from basic Armatex asbestos-synthetic rubber stock made by Armstrong Cork Company via a patented beater-saturated process that assures even distribution of asbestos fibers and synthetic rubber binder. BAC impregnates the material with melamine (a thermosetting plastic), cures it to provide stiffness and molds it into a wave-formed shape for higher heat transfer efficiency.

ETERNIT GROWTH IN HUNGARY

Following completion of a large-scale expansion program, the Nyergesujfalu asbestos slate factory in North Hungary is now producing asbestos-cement sheets on six highly-automated production lines. Production by 1976 is to be 22-million square meters per year, sufficient to meet domestic needs.

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Fire resistant, acoustic ceiling panels containing amosite asbestos are used in the Kasumigaseki underground station in Tokyo, Japan.

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T&N INVESTS IN VENEZUELAN FIRM

Turner & Newall Ltd., through its U.S. subsidiary Flexitallic Gasket Co., Inc., has taken a 49% interest in the new Venezuelan firm of Empacaduras Iroqueladas, S.A. The rest of the equity is held by a group of Venezuelan businessmen. Flexitallic spiral-wound gaskets will be the main product.

GARLOCK MOVES AHEAD

Four projects to increase the production capacity of Garlock Inc. are planned for completion this year. A modern asbestos textile facility is being built at Sherbrooke, Quebec, to be operated as a Garlock affiliate with equity participation by the Quebec Industrial Development Commission. . . . Garlock recently purchased an additional interest in Manufacturas E.R.I.C.A., S.A., Barcelona, Spain, and will install new equipment to increase that company's basic production of asbestos textiles. . . . Garlock received government approval to establish a new firm in Manila with minority participation by its Philippine distributor. The plant will initially make braided and other compression packings. . . . Construction has begun in West Deptford, New Jersey, of a 43,000-square-foot facility to produce filled plastic bushings. The plant will replace a small leased factory.

PLANT CLOSINGS

National Gypsum Company terminated production at its a/c plant at Millington, New Jersey, mainly due to lack of profitability. Another factor was the sizeable capital investment that would be needed to alter plant conditions to comply with environmental requirements. All raw materials for production of siding shingles used in residential building have been exhausted and the facility is to remain open only to eliminate the remaining inventory. The original plant was built in the 1920's by Asbestos Ltd., was sold to Smith Asbestos Company in 1947 and taken over by National in 1953. . . . *Celotex Corporation* was ordered by the U.S. Environmental Protection Agency to shut down its small asbestos-paint factory at Perth Amboy, New Jersey. This is the first EPA administrative order to close a production facility anywhere in the U.S. "Hazardous" emissions of asbestos into the air were noted during a routine EPA inspection. . . . *Congoleum Industries* is closing its vinyl-asbestos floor tile plant at Kearney, New Jersey, due to a decline in demand for the product.

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HANS-PETER FABER—TO RETIRE

Hans-Peter Faber is to retire September 30, 1975, as a Managing Director of Possehl Erzkontor GmbH, Lubeck, West Germany, a member of the Possehl Group of Companies. He has been associated with the company and its predecessor, Nordisches Erzkontor and Possehl Erzgeseilschaft, for 46 years and has served as a Managing Director since 1958. One of his many responsibilities was that of the firm's asbestos trade business. Mr. Faber reached the age of 65 on June 23th of this year.

L. Possehl & Co. mbH, the parent firm of the Group, is a multi-marketing firm that was founded in 1847 by Ludwig Possehl as an iron and coal trading company. Today over 30 firms belong to the flourishing enterprise. In reading through a brief history of the company, it is interesting to note that the first of several acquisitions was of a hobnail manufacturing firm in 1884. In 1918 and again in 1945 the firm lost all of its foreign possessions (also those in East Germany in the latter year). Annual sales reached 100-million gold marks in 1914, exceeded 1-billion German Marks in 1968 and totaled 1.5-billion German Marks in 1971.

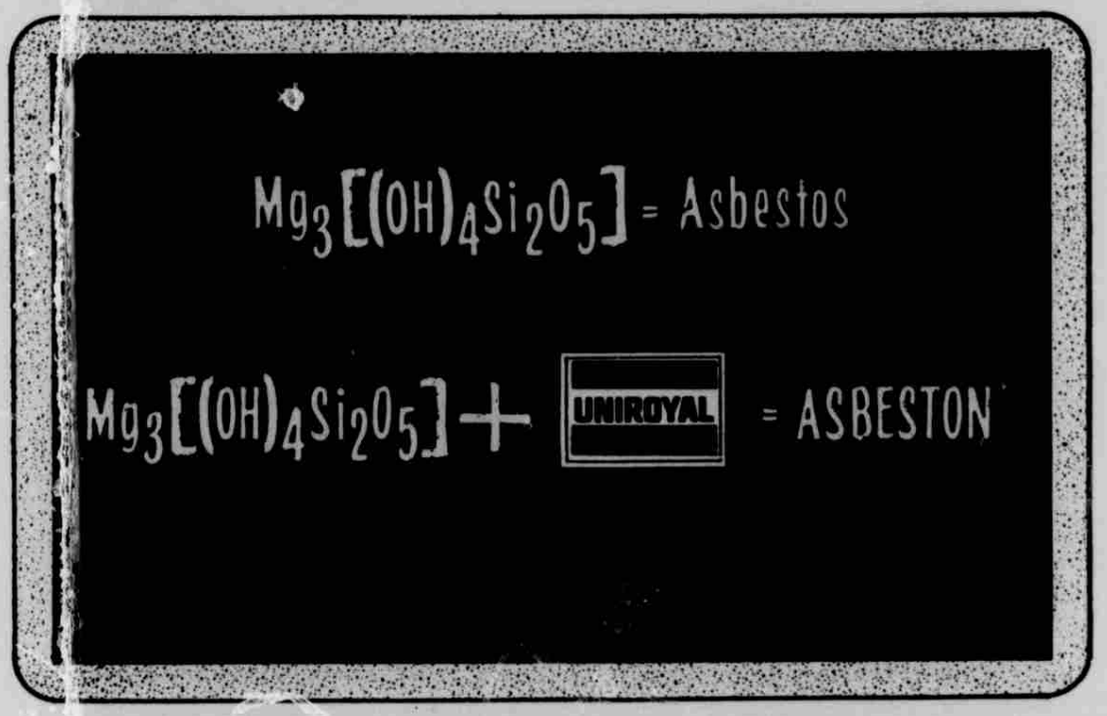
The Possehl trading business involves iron and steel, ores, minerals, nonferrous metals and scrap, sanitary articles, central heating equipment, fuel, building and industrial products, chemicals and synthetic materials. It produces a variety of metals, pharmaceuticals, chemicals and synthetic products as well as building materials, machines and tools. The services of the company are concentrated in shipping and activities connected with harbors and waterways. It also owns and operates a freighter, a cruise ship, a real estate business, a travel bureau and an automobile service.

To commemorate the 125th anniversary of the Possehl Group, a comprehensive and beautifully-illustrated, full-color brochure was distributed to numerous firms around the world. It describes how the Group is structured and which markets it serves. Although written in German, an accompanying English translation is available. Interested readers in the U.S. and Canada who have not seen the literature may request a copy from Possehl, Inc., an affiliated company located in Greenwich, Connecticut.

—ASBESTOS WELCOMES THE FOLLOWING NEW ADVERTISER—

BRIAN H. DONNER, Asbestos Milling Consultant (page 53)

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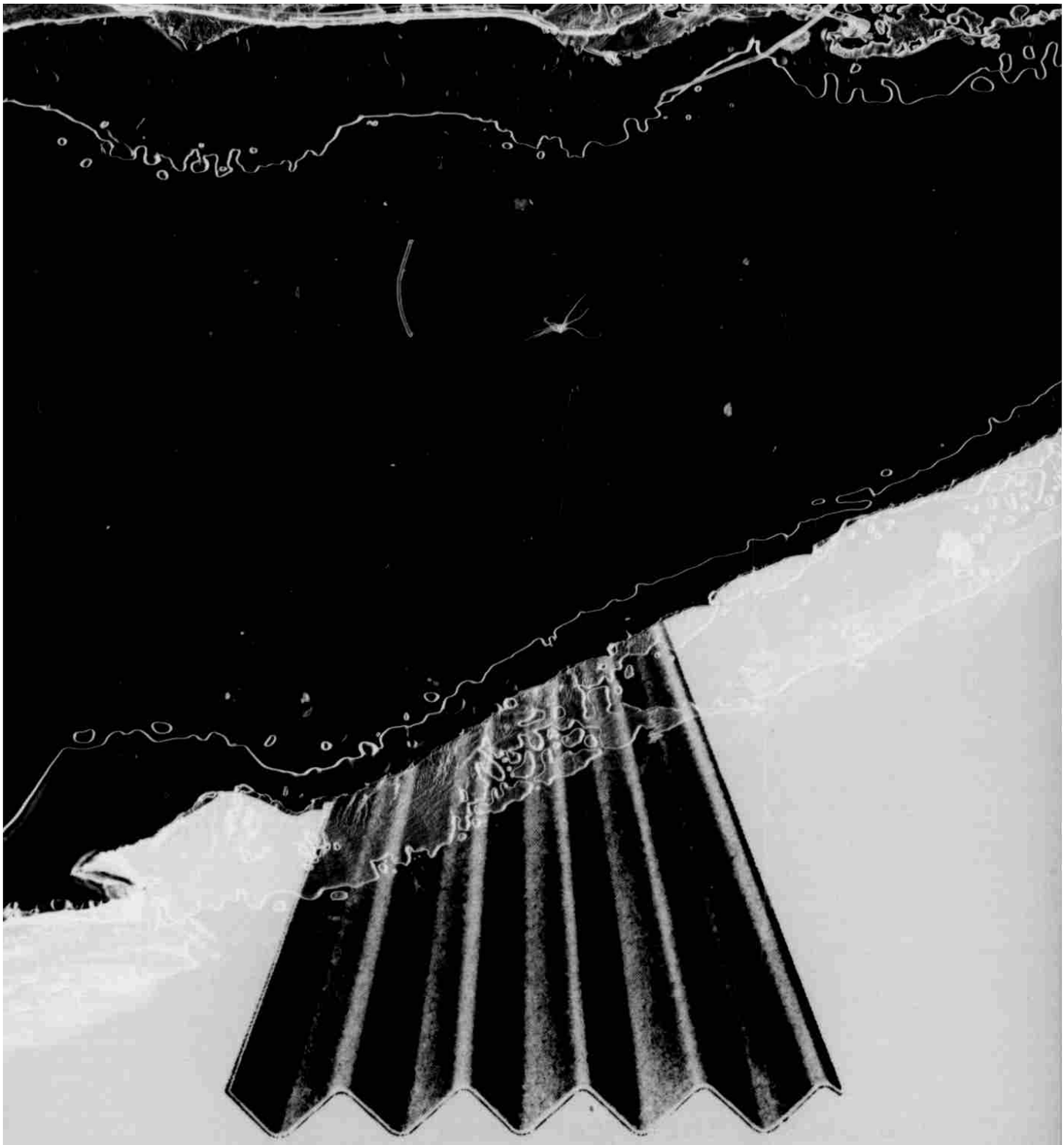
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Winnsboro, S.C. 29180



The U.S. Occupational Safety and Health Administration and the General Counsel of the National Labor Relations Board entered into an agreement on April 16th which establishes a procedure for coordinating litigation-related sections of the OSHA Act and the National Labor Relations Act. The purpose of the agreement is to avoid duplicate litigation and to ensure that the exercise by employees of their rights in the area of health and safety will be protected [FR 6/20/75].

NIOSH & MESA TALC PACT

Under a special agreement with the Mine Enforcement and Safety Administration, investigators from the National Institute for Occupational Safety and Health (NIOSH) will visit some 20 talc mines as part of a comprehensive study of hazards in the talc industry. Bulk samples of talc will be analyzed for the presence of asbestos, silica and other minerals. In the 3-year study, NIOSH will look not only at mines but also at mills and industrial operations.



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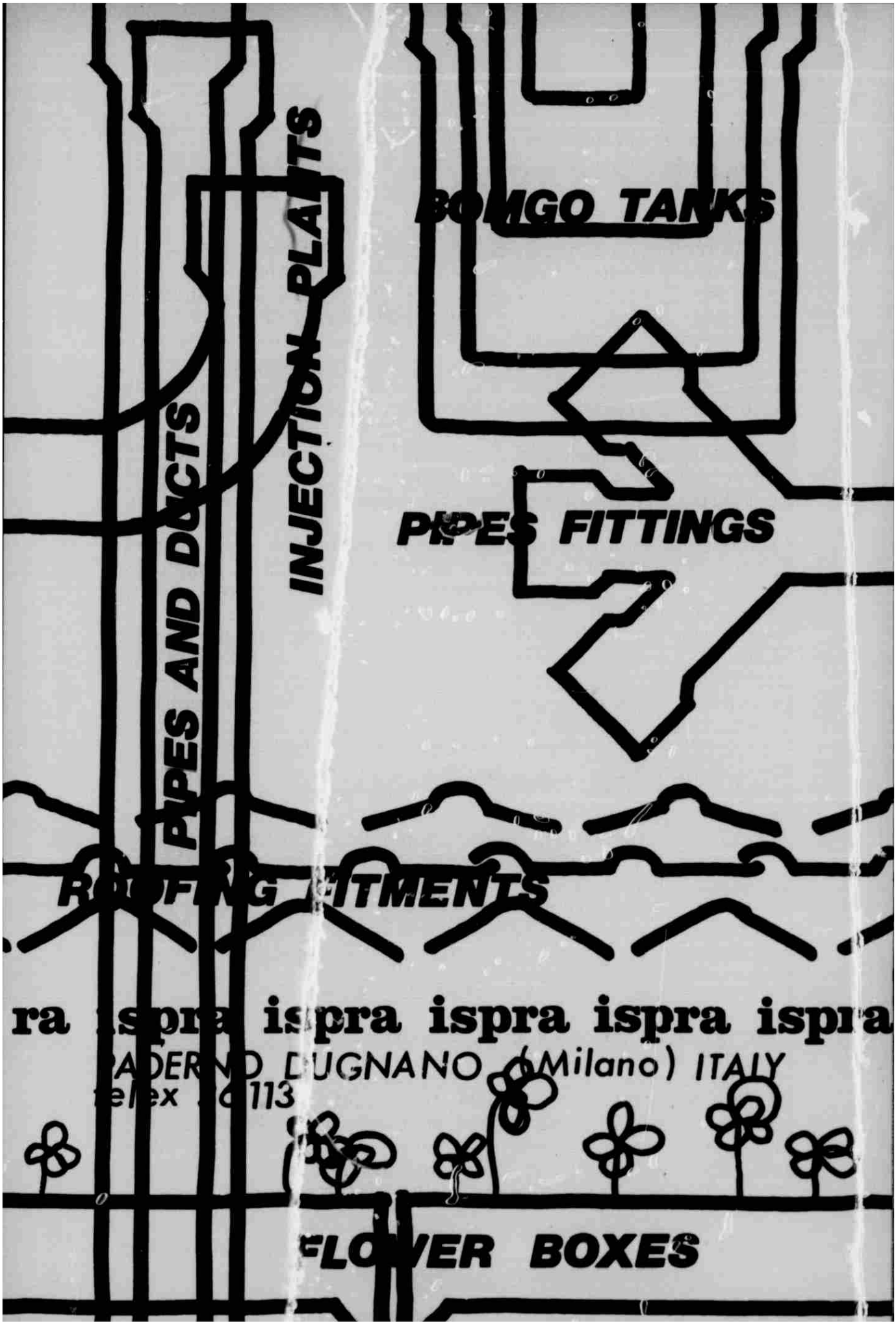
EPA AMENDS, AGREES & STUDIES

The U.S. Environmental Protection Agency is considering *amending 40 CFR Part 136* to set forth "Guidelines Establishing Test Procedures for the Analysis of Pollutants." The amendments would correct minor errors and include additional parameters and analytical methods in §136.3—Identification of Test Procedures [FR 6/9/75]. . . . An Interagency agreement, effective March 24, 1975, to *coordinate areawide waste treatment management planning and comprehensive planning* has been worked out between EPA and the U.S. Department of Housing and Urban Development [FR 5/22/75]. . . . System Sciences, Inc., a private contractor based in Bethesda, Maryland, has been given $190,000 by EPA to investigate on a national scale *connections between cancer incidence and population exposures* to industrial pollutants. . . . The Minnesota Pollution Control Agency will conduct a demonstration project in the Minneapolis-St. Paul area to determine how industry can *dispose of chemical wastes* without risk of contaminating drinking water supplies and the environment. The facility will take 33 months to build and will be the first of its kind in the country. The overall cost of the 5-year project will be $5,410,000 of which EPA will provide $3,720,000 with the balance coming from MPCA and local sources.

ASBESTOS IN THE GREAT LAKES

At the request of the Great Lakes Research Advisory Board, the International Joint Commission's Great Lakes Regional Office assembled and prepared a report on *Asbestos in the Great Lakes Basin—With Emphasis on Lake Superior*. Chapters in the report are concerned with the properties, enumeration and identification of asbestos; health effects; treatment and removal; distribution and research needs. Conclusions are that there are problems with asbestos counting and identification methods; that sampling programs are continuing to be initiated because of the potential hazards of asbestiform fibers to human health; that scientists are not in agreement on hazards resulting from ingestion of asbestos; and that there is likely transboundary (U.S. and Canada) pollution from asbestos in Lake Superior. A copy of the report is obtainable, at $4.75 per paper copy, from the National Technical Information Service, Springfield, Virginia 22151. Request Report #PB-240-134.

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THE SCENE IN DULUTH

Construction companies are bidding on Phase 1 of a *$6-million water filtration plant* to be built in Duluth, Minnesota. Bids on Phase 2, estimated to cost $3.5-million, will be opened in September of this year. The facility is primarily designed to remove asbestos fibers from Lake Superior water used in the municipal system. The initial phase of construction is to be substantially completed by February 2, 1976, with Phase 2 work to be done in time to have the plant operating by about February 1977. The federal government is to provide up to two-thirds of the total cost of construction and the state up to one-third. Annual maintenance and operating costs will be a local responsibility to be passed on to customers of the Water and Gas Department through monthly water-usage billings. . . . *Meanwhile—a local businessman has filed a class action suit* in the U.S. District Court in an attempt to force EPA, the Army Corps of Engineers and the city government to provide Duluth with pure drinking water. The plaintiff, R. M. Anderson, contends that more research into water filtration methods is necessary before Duluth builds a $6-million filtration plant. . . . Dr. J. M. Peterson, an economics associate professor, believes society should not impose a land tailings disposal system on Reserve Mining Company without comparing the benefit of the pollution control strategy with its costs. Water filtration, he said, seems far more appropriate both from a cost and a health criteria and will yield sizeable positive net benefits. . . . In the midst of all this controversy, a recent study by the National Cancer Institute resulted in some *encouraging conclusions* for people residing near Lake Superior. The research was a review of over 5-million cancer deaths that occurred between 1951 and 1969 in all 3,056 counties in the 48 contiguous United States. NCI uncovered no unusual cancer death patterns in communities where drinking water was known to have been contaminated with asbestos fibers.

THE BLUE & BROWN BAN WAGON

The Canadian government intends to outlaw the importation of Blue asbestos and the sale of products containing "free" asbestos fibers. Via regulations under the Hazardous Products Act, it also means to ensure that products containing asbestos bear labels that inform as to content and safe use. In an earlier move, the Ontario Ministry of Health called for stringent controls

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on Blue asbestos that would cut allowable levels inside plants in the Province from 2 fibers per cubic centimeter of air to 0.2 fibers. . . . Ontario health officials are also calling for a ban on the Amosite (Brown) variety of asbestos. The move is based on the findings of two U.S. studies that a connection exists between exposure to Amosite and mesothelioma, a rare chest cancer that prior studies found to be caused by only slight exposure to Blue asbestos.

INDUSTRIAL HYGIENE PAPERS

Listed below are several of the papers presented at the American Industrial Hygiene Conference held in Minneapolis, Minnesota, June 1-6, 1975. Requests for reprints or further information should be directed to the author(s).

Asbestos Emissions from Baghouse Controlled Sources—by C. F. Harwood, Ph.D., et al., IIT Research Institute;

Research Priorities for Protective Clothing in the Industrial and Firefighters Environments—by J. I. Kamin, P.E., National Institute for Occupational Safety and Health, and W. L. Barnhart, Bendix Corporation;

A Statistical Analysis of Asbestos Fibre Counting in the Laboratory and Industrial Environment—by G. S. Rajhans and G. M. Bragg, Ph.D., Ontario Ministry of Health;

Self-Recording and Manual Audiometers for Audiometric Computer Systems—by E. L. Anderson, C.S.P., Oto-Data, Inc.;

Control of Noise at Horizontal Hose Braiding Machines—by R. C. Niles, P.E., Uniroyal, Inc.;

A Commentary on Noise Dosimetry and Standards—by R. S. Brief and Robert G. Confer, Exxon Corporation;

Interpretation and Application of OSHA Carcinogen Standards—by S. M. Rappaport, Ph.D., Los Alamos Scientific Laboratory;

A Procedure for the Early Detection of Noise-Susceptible Individuals—by P. L. Michael and G. R. Bienvenue, Pennsylvania State University;

Methods and Aids for Assessing Particle Losses in Sampling Lines—by L. C. Schwendiman, et al., Battelle Pacific Northwest Laboratories;

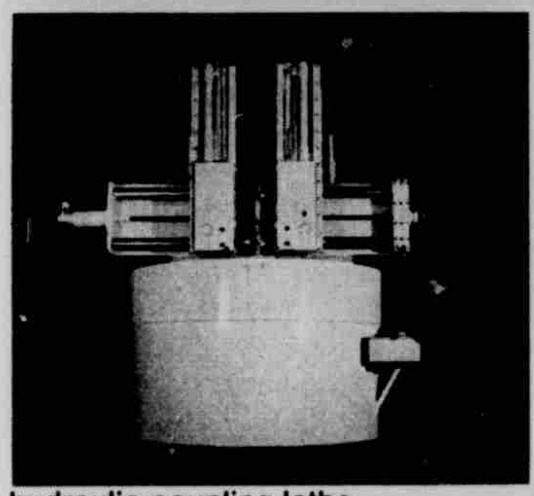
Effects of Milling on Diameters and Lengths of Fibrous Glass and Chrysotile Asbestos Fibers—by J. Assuncao and M. Corn, Ph.D., University of Pittsburgh.

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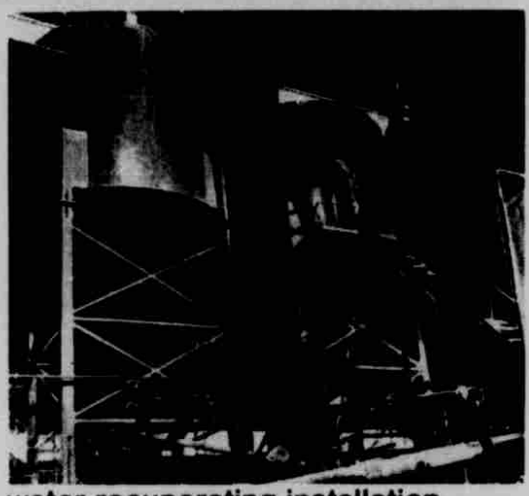
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U.K. ASBESTOS INFORMATION COMMITTEE

PART 5: INFORMATION SERVICES

One of the original aims of the U.K. Asbestos Information Committee was to provide an information service to all interested in asbestos. A very large number of enquiries covering every aspect of the subject are received from all over the world. These enquiries have ranged from those concerned with the technical performance of asbestos-based products to enquiries from eight-year olds aspiring to be firefighters clad in asbestos suits!

There are many people and organizations with whom good communications need to be established but none are more important than the workers in the asbestos industry or those who handle asbestos products. Their cooperation and understanding of the health problems and the means of overcoming them are essential. . . . In the United Kingdom a great deal of attention is being given to providing workers with information in attractive and readily understood form. Posters and leaflets are being produced on the "do's" and "don'ts" of working with asbestos in various situations, with cartoon pictures. Encouragement and factual information have been given to factory newspapers in preparing articles which set out the facts of the asbestos and health situation. As mentioned previously, the film *Asbestos At Work* has been shown at regional centers throughout Britain to audiences of safety officers and trades unions officials and is shown by individual companies to recruits at initial training sessions.

The dialogue on asbestos and health is now carried out on an international basis and it is reassuring to know that responsible information organizations now exist in most major industrial countries. It is important that the asbestos industry has the means and the organization to counter unfair or inaccurate attacks wherever they occur and the experience of any one organization can be of benefit to others facing similar situations. Hygiene standards in asbestos factories throughout the world are improving all the time but some critics will continue to use past situations to justify attacks on contemporary asbestos hygiene standards. It is the responsibility of such organizations as the AIC to ensure that industry's viewpoint is presented honestly and vigorously.

The above is the final chapter in a series of articles on the effective endeavors and accomplishments of the U.K. Asbestos Information Committee. Requests for additional information should be directed to Mr. Michael Howe, AIC, 2 Old Burlington Street, London W1X 2LH, England.

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THE PROFITMAKERS FOR THE A.C. INDUSTRY

GENERAL BUSINESS CONDITIONS

General business seems to be following the normal pattern of recovery from a deep recession. The earliest improvement has taken place in retail sales, particularly of soft goods, and this is being followed by growing sales of other consumer goods including some of the more expensive durables. Home-building is at last showing some signs of life but housing starts, after a slight improvement, turned down again in June and high costs still remain a roadblock to a strong housing revival.

Automobile sales have also improved a bit but it is obvious that many prospective buyers are deferring purchases until there is some clear resolution of present uncertainties as to the future cost and availability of gasoline. Meanwhile, numerous buyers are playing it safe by opting for smaller, more economical cars. The result has been a sharp increase in sales of small, imported cars and this will probably continue until domestic manufacturers can rearrange their product mix to successfully meet this competition.

As usual, producers of capital goods have been the last to feel the full effects of the recession and have yet to experience an upturn in business. There are exceptions such as the makers of coal mining machinery and oil country goods whose business is still booming. However, limited production of automobiles and appliances coupled with cutbacks in construction programs of utilities and other industries have resulted in a sharp slump in steel production which promises to continue for some months.

The present combination of excess productive capacity, improving productivity of labor and projected bumper farm crops should continue to whittle down the rate of inflation which is just over 5% as this is written. However, a further increase in the price of oil, whether as a result of the President's program or because of an increase in the OPEC established price, will almost certainly result in an increase in the overall price level. Thus, regardless of the deflationary forces at work, consumers will probably soon be faced with increases in the prices of almost everything they buy, reflecting the all-pervasive effect of an oil price increase.

Despite the negatives noted above, the consensus of opinion of leading economists now seems to be that we have seen the worst of the recession, that we can look for a slow but sustained recovery from here on with a moderating rate of inflation and that, barring some unpredictable international upheaval, 1976 will be a very good year for U.S. business.

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:		**APRIL 1975**	
Amosite, South Africa	s.tons	1,231	$ 535,572
Crocidolite (Blue), South Africa	s.tons	2,163	871,099
Chrysotile, Crudes, Rhodesia	s.tons	617	543,528
South Africa	s.tons	107	75,366
Swaziland	s.tons	1,213	481,793
USSR	s.tons	1,249	246,763
Chrysotile, Spinning Fibers, Canada	s.tons	896	855,567
Chrysotile, Other, Canada	s.tons	36,584	7,276,170
Mexico	s.tons	11	2,199
Rhodesia	s.tons	32	22,871
Other Crudes & Fibers, Canada	s.tons	144	18,184
Finland	s.tons	32	3,508
		44,279	$10,932,620
Manufactured Asbestos Products:			
Asbestos yarn, cloth, tape, etc.	Lb	822,291	$ 1,200,133
A-C pipes, tubes & fittings	Lb	1,184,259	128,250
Other a-c articles	Lb	2,010,609	433,583
Other asbestos articles		. .	459,870
			$ 2,221,836

Unmanufactured Asbestos:		**JANUARY-APRIL 1975**	
Amosite, South Africa	s.tons	2,272	$ 860,215
Crocidolite (Blue), South Africa	s.tons	3,950	1,484,990
Chrysotile, Crudes, Rhodesia	s.tons	699	612,434
South Africa	s.tons	625	310,524
Swaziland	s.tons	2,756	952,544
United Kingdom	s.tons	277	82,982
USSR	s.tons	2,223	512,860
Chrysotile, Spinning Fibers, Canada	s.tons	3,638	2,377,758
Rhodesia	s.tons	20	19,110
Chrysotile, Other, Canada	s.tons	164,479	32,676,976
Gaza Strip	s.tons	152	25,914
Mexico	s.tons	33	6,677
Rhodesia	s.tons	32	22,871
Other Crudes & Fibers, Canada	s.tons	2,022	378,545
Finland	s.tons	120	10,743
Italy	s.tons	1	4,550
Rhodesia	s.tons	100	35,088
South Africa	s.tons	88	25,248
		183,487	$40,400,029

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U.S. IMPORTS CONTINUED

Manufactured Asbestos Products:

Asbestos yarn, cloth, tape, etc.	Lb	3,459,103	$ 4,210,107
A-C pipes, tubes & fittings	Lb	5,562,375	529,118
Other a-c articles	Lb	21,834,607	2,939,704
Other asbestos articles			1,761,137
			$ 9,440,066

PRODUCT IMPORTS TO CANADA

Imports of various asbestos-based products from *January-March 1975* were valued as follows: vinyl-asbestos floor and wall tiles—$105,000 (213,164 square yards); asbestos cloth, dryer felts and sheets—$982,000; asbestos packing—$545,000 (406,188 pounds); asbestos brake linings—$1,292,000; asbestos clutch facings—$173,000; asbestos-cement shingles and siding—$28,000; asbestos-cement board and sheets—$353,000; other asbestos building materials—$3,327,000; and other asbestos basic products—$727,000 [Statistics Canada, Ottawa].

N.S.W. PRODUCTION

For the *Year Ended June 1974*, New South Wales produced 37,651 metric tons of asbestos valued at Australian $4,140,158. Compared with the prior year, these latest statistics indicate an increase in tonnage of 5,293 and a rise in value of $883,728 [New South Wales Department of Mines, Sydney].

AUSTRALIAN A/C SHEETS

Production of asbestos-cement sheets for *July 1974-March 1975* totaled 32,484,000 square meters, 1,029,000 square meters less than during the same 9-month period a year earlier [Australian Bureau of Statistics, Canberra].

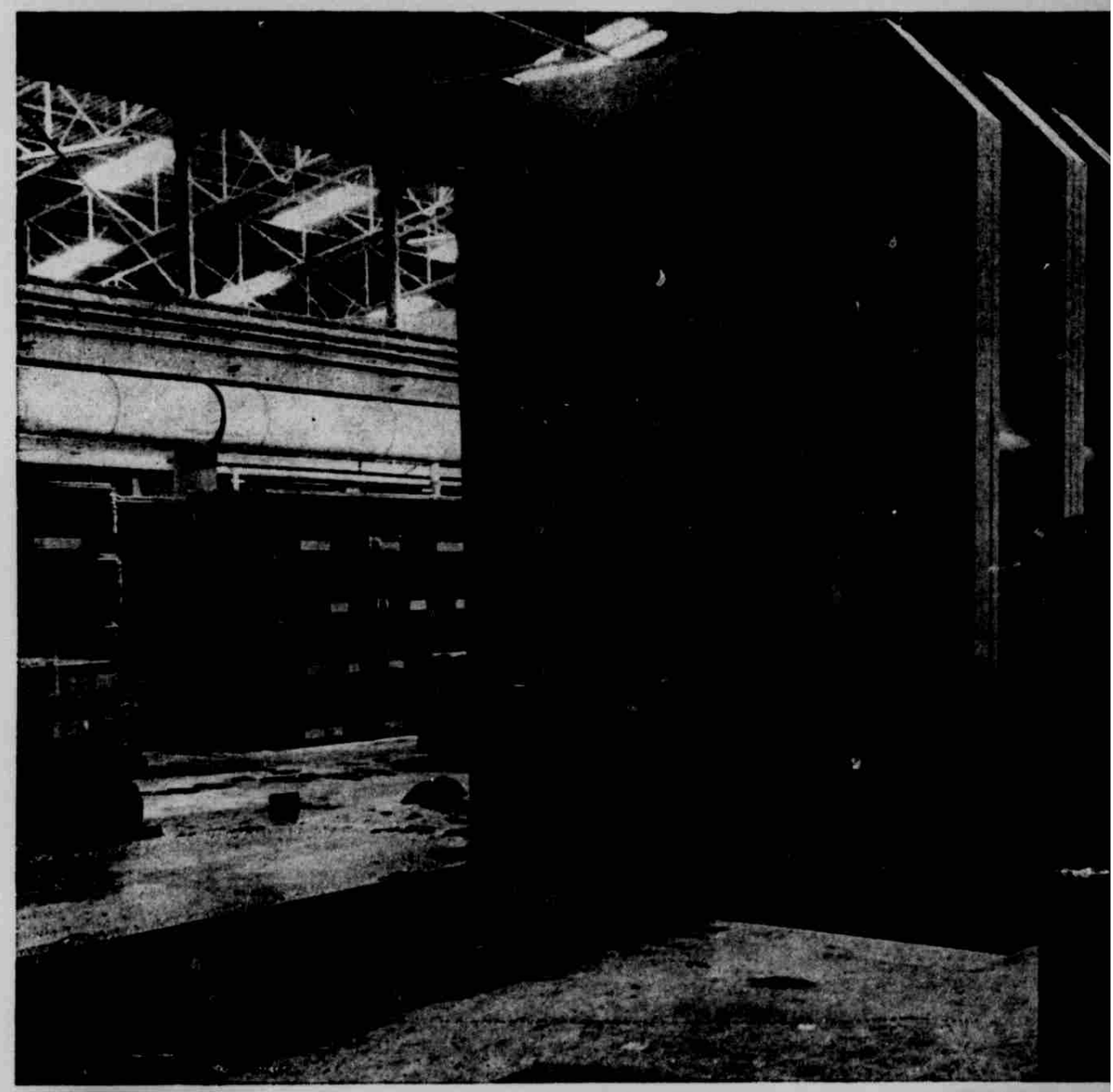
CHRYSOTILE ASBESTOS TEST MANUAL—Prepared jointly by the Asbestos Textile Institute and the Quebec Asbestos Mining Association, this 3rd edition provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. Orders may be placed through this Magazine [$18.95 to U.S., Canada & Mexico; $20.95 to all other countries].

THE ASBESTOS FACTBOOK—Written in layman's language, this handy booklet offers useful information about the origin, locations and uses of asbestos, the chemical compositions of various types of the mineral, testing methods and grades. Your copy is available from this Magazine for just $1.00 [28 pages; 5" x 7½"; paper-bound].

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Our Program for the Asbestos-Cement Industry

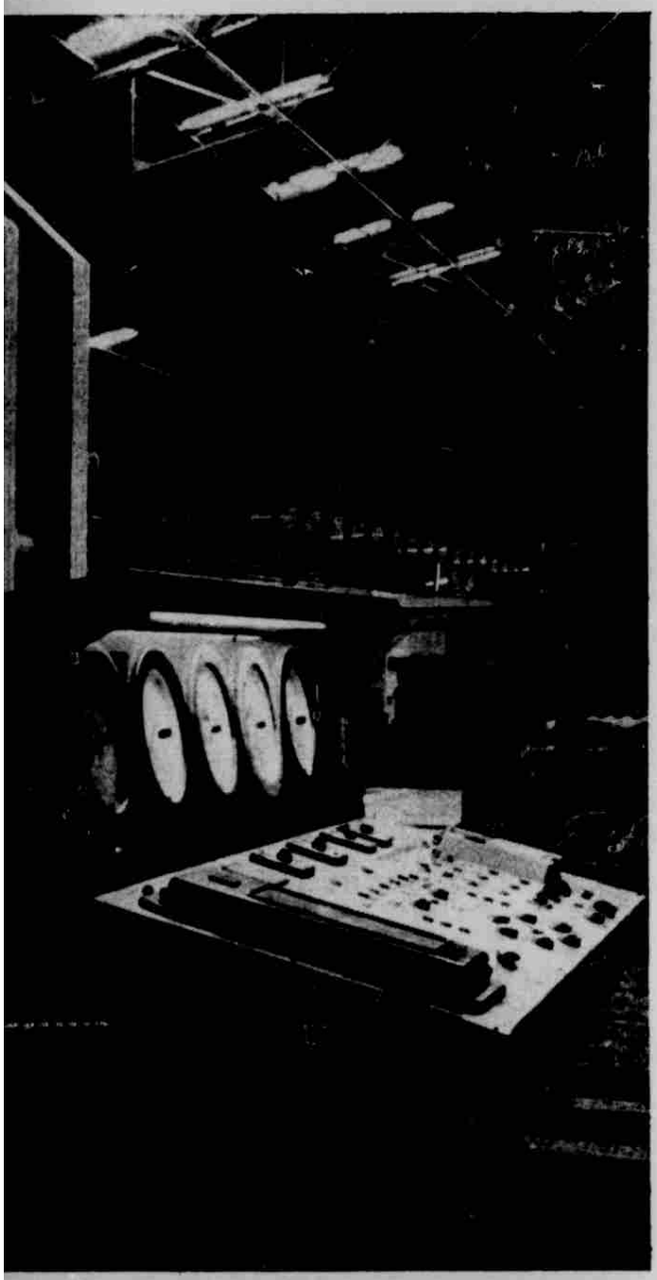
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U.S. ASBESTOS INDUSTRY 1974

According to advance summary data from the Division of Nonmetallic Minerals, U.S. Bureau of Mines, shipments of asbestos from mines in the United States decreased 25% from the record high in 1973 and imports were 3% below 1973 levels. Troubles in the construction industry and the recession were given as the main reasons for the lessening demand for the mineral. Canada, the world's leading asbestos producer, shipped 3% less of the product to the United States, its largest market. Total Canadian shipments were down 97%.

Salient United States Asbestos Statistics	1974		1973	
	Short Tons	Value	Short Tons	Value
Production (Sales)	112,533	$ 13,759,000	150,116	$16,288,000
Exports & Reexports (Unmanufactured)	61,723	$ 9,192,000	66,442	$ 9,342,000
Exports & Reexports (Asbestos Products)		$ 60,258,000		$40,705,000
Imports for Consumption (Unmanufactured)	766,164	$123,822,000	792,473	$98,914,000
Apparent Consumption (Measured by Quantity Produced plus Imports)	816,964		876,147	

PRICES FOR CHRYSOTILE FROM BRAZIL

The following prices for Chrysotile asbestos fibers produced at Cana Brava were recently received from the Departamento Nacional da Producao Mineral, Brazil. Costs are quoted in Cruzeiros (Cr$), CIF Sao Paulo: CB4K—Cr$3410, 4T—Cr$3065, 4Z—Cr$2819, 5K—Cr$2377, 5R—Cr$1820, 6D—Cr$1415, 7M—Cr$1025, 7TF—Cr$746, 8S—Cr$516, 8T—Cr$469 and 8T—Cr$444. . . . Classified according to the Quebec Standard Testing Machine, the tensile strength of Brazilian Chrysotile is somewhat lower than that of Canadian fibers. Cana Brava compensates for this by adding a few of the longer fibers to its product.

"CALIDRIA" FLOOR TILE GRADE PRICES

Prices are quoted F.O.B. King City, California; Product SG-103 is not currently available.

Product Description	Price Per Pound
SG-101 "Cracked" Pellets; 90 # Paper Bags	3.8¢
SG-102 Pellets; 100 # Paper Bags	3.7¢
SG-103 Pellets; 70 # Plastic Bags	3.9¢
SG-104 Pellets; Bulk	3.2¢
SG-144 Open Fiber; 4 # Paper Bags	4.7¢

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As of April 17, 1975 *U.S. Dollars*

No. 1 Crude (Soft)	$ . . $2000.00
No. 2 Crude (Soft)	. . 1500.00
AAA	. . 1100.00
Group No. 3—Nonferrous Filtering—Plastic	715.00— 800.00
Group No. 4—Nonferrous Filtering—Plastic	700.00— 800.00
Group No. 7—White Shorts	100.00— 200.00

QUEBEC *Per Ton of 2000 Lbs., F.O.B. Mine*
As of January 1, 1975 *Canadian Dollars*

No. 1—Crude	$ . . $2842.00
No. 2—Crude	. . 1544.00
No. 3—Spinning Fiber	685.00— 1190.00
No. 4—Asbestos Cement Fiber	380.00— 675.00
No. 5—Paper Fiber	255.00— 340.00
No. 6—Paper and Shingle Fiber	186.00— 211.00
No. 7—Shorts	77.00— 171.00

CASSIAR *Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of August 1, 1975 *Canadian Dollars*

Cassiar Mine

C-1	$2916.00
AAA Grade—Nonferrous Spinning Fiber/Canadian Group 3	1685.00
AA Grade—Nonferrous Spinning Fiber/Canadian Group 3	1340.00
A Grade—Nonferrous Spinning Fiber/Canadian Group 3	1020.00
AC Grade—Nonferrous Spinning Fiber/Canadian Group 3	735.00
AK Grade—Asbestos Cement Fiber/Canadian Group 4	524.00
AS Grade—Asbestos Cement Fiber/Canadian Group 4	454.00
AX Grade—Asbestos Cement Fiber/Canadian Group 5	416.00
AY Grade—Asbestos Cement Fiber/Canadian Group 5	292.00
AZ Grade—Asbestos Cement Fiber/Canadian Group 6	216.00

Clinton Mine

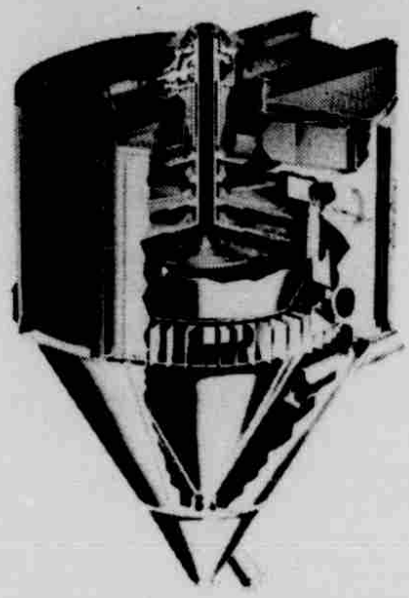
CP Grade—Asbestos Cement Fiber/Canadian Group 4	492.00
CT Grade—Asbestos Cement Fiber/Canadian Group 4	445.00
CY Grade—Asbestos Cement Fiber/Canadian Group 5	292.00
CZ Grade—Asbestos Cement Fiber/Canadian Group 6	216.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of June 16, 1975 *U.S. Dollars*

Grades 4A thru 4T—Fiber	$360.00—$ 608.00
Grades 5D thru 5R—Fiber	238.00— 280.00
Grade 6D—Waste	. . 173.00
Grades 7D thru 7T—Shorts	77.00— 150.00
Grade 7TF—Floats (Shorts)	. . 66.00
Grade 8S—Shorts	. . 53.00
Hooker No. 1—packaged in 50-lb. woven poly. bags	850.00
Hooker No. 2—packaged in 100-lb. woven poly. bags	425.00

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EXPORTS FROM THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:		APRIL 1975	
Fibers not further processed than beaten, washed or graded to length	s.tons	817	$ 288,121
Waste and refuse	s.tons	1,558	631,962
		2,375	$ 920,083

Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	2,318,180	$ 342,752
Other a-c fiber-cement articles	Lb	2,421,811	416,009
Gaskets	Lb	83,444	292,415
Packing	Lb	573,974	1,047,683
Heat or sound insulation		..	432,240
Textiles & yarns	Lb	917,175	732,212
Protective clothing		..	34,548
Mfrs. other than friction materials		..	1,064,022
Cl. facings & linings for auto. use	No	68,995	88,185
Other clutch facings & linings	No	28,497	25,424
Brake linings for automotive use	Lb	522,807	572,077
Other brake linings	Lb	191,403	233,231
			$ 5,271,753

Unmanufactured Asbestos:		JANUARY-APRIL 1975	
Fibers not further processed than beaten, washed or graded to length	s.tons	5,439	$ 2,523,369
Waste and refuse	s.tons	5,084	1,245,355
		10,523	$ 3,768,724

Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	8,006,361	$ 1,251,852
Other a-c fiber-cement articles	Lb	20,682,805	3,515,140
Gaskets	Lb	208,160	720,135
Packing	Lb	1,769,922	4,195,344
Heat or sound insulation		..	1,682,894
Textiles & yarns	Lb	3,164,364	2,367,949
Protective clothing		..	151,509
Mfrs. other than friction materials		..	3,423,420
Cl. facings & linings for auto. use	No	376,029	620,617
Other clutch facings & linings	No	352,505	171,395
Brake linings for automotive use	Lb	2,292,938	2,155,798
Other brake linings	Lb	716,220	959,385
			$21,215,438

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EXPORTS FROM CANADA

FROM: STATISTICS CANADA

APRIL 1975

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	348	8,907	8,431
Eastern Europe	..	210	865	240
Middle East	..	40	543	937
Africa	..	..	..	..
Asia	..	23	3,523	6,265
Oceania	..	11	1,976	288
So. & Cen. America & Antilles	..	..	5,108	1,051
United States	..	863	12,041	22,570
	..	1,495	32,963	39 782

The total amount of unmanufactured asbestos exported in *April 1975* was 74,240 short tons, valued at $18,049,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 71,000
Asbestos brake linings & facings	188,000
Asbestos-Cement building materials	633,000
Other basic asbestos products	288,000
	$ 1,180,000

JANUARY-APRIL 1975

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	4,214	70,748	53,461
Eastern Europe	..	430	5,671	1,069
Middle East	..	40	5,413	2,049
Africa	..	..	4,330	279
Asia	43	512	20,386	35,097
Oceania	..	11	9,814	1,243
So. & Cen. America & Antilles	..	1,133	28,553	14,840
United States	1	3,104	62,862	103,532
	44	9,444	207,777	211,570

The total amount of unmanufactured asbestos exported in *January-April 1975* was 428,835 short tons, valued at $103,493,000.

Asbestos cloth, dryer felts & sheets	$ 981,000
Asbestos brake linings & facings	962,000
Asbestos-Cement building materials	1,716,000
Other basic asbestos products	1,132,000
	$ 4,791,000

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also with spirally wound wire instead of the bottom wire.

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THE MINING SCENE

SILENCE IS NOT GOLDEN

As this is written the *strike of asbestos workers* at Thetford Mines, Quebec, is now in its fifth month with "silence" seeming to be the key action on the part of the two unions involved. About two-thirds of the strikers are members of the Confederation of National Trade Unions (CNTU). The remainder are part of the United Steelworkers of America. The five stricken companies are Asbestos Corporation, Bell Asbestos Mines, Carey-Canadian Mines, Lake Asbestos of Quebec and National Asbestos Mines.

At the end of May the five companies made individual offers to the two unions; all equal, financially speaking, to the contract settlement without a strike between Canadian Johns-Manville and the Conseil des Syndicate Democratiques (CSD). No counter proposals or comments have been received from the unions although it has been inferred that Asbestos Corporation should make another offer as it was the only one of the five firms that offered a contract to May 1978, a date beyond the two-year contract term requested by the unions. According to latest reports, the unions are sticking to their demands for a 73% increase in the first year and a 27% raise in the second year. By contrast, in the settlement between C.J-M and CSD, that union accepted an $800 lump-sum payment to compensate for three years of inflation, and a 28% increase over two years. Base wages were raised to $6.10 an hour.

Early in July CNTU officers called a meeting of its membership urging the preparation of counter proposals. The members unanimously accepted the proposal but since there is a common front existing between the two unions, CNTU took the agreement to the Steelworkers union, who flatly turned it down presumably because it remains adamantly opposed to any reduction in monetary demands.

It is felt by many in the Industry that the health issue is no longer a real factor in settling the strike since in June the Provincial government did pass workmen's compensation legislation, via Bill 52, which, among other things, granted double indemnity to those workers who, through their occupational environment, had contracted asbestosis or silicosis. Also, on June 27, the Quebec government passed an order putting the five-fiber standard in effect as of January 1, 1978. Ontario is now operating under the two-fiber limitation.

In protest to a controversial provision in a compensation-related bill, on June 26 about 250 strikers pelted Labor Minister Cournoyer with asbestos powder in front of the Quebec National Assembly. When someone tried to pacify the crowd, the demonstrators showered him with white dust and then spread the powder on the lawn and flowerbeds in front of the building. For whatever reason, we fail to see how negative actions of this nature will initiate positive moves in negotiating toward any contract settlement.

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NEW FIND IN NEWFOUNDLAND

Advocate Mines Ltd. may have discovered something that could develop into a new asbestos orebody in Newfoundland, reported The Northern Miner. While few details were revealed, the property is located about 12 miles from the present mining operation on ground formerly held under a concession agreement that expired the first of this year. On the recommendation of engineers from Canadian Johns-Manville Co. Ltd., Manager of the operation, a second diamond drill is being moved in immediately.

WOODSREEF STUDIES & DISCUSSES

Kilborn Engineering Ltd. has been retained by Woodsreef Minerals Ltd., Canada, to carry out a study to evaluate the assets and future profit potential of the asbestos operation at Barraba, N.S.W., Australia. The value of ore reserves will be calculated on the basis of the recovery which should be achieved by the existing mill.

In May, before any allowance for depreciation, the mine and mill achieved a cash surplus, nearing the break-even point after losing Australian $2.38-million in the previous six months. The *improvement in profitability* resulted from the transfer of operations from the south pit to the north pit, at which proven reserves are now calculated at 10.04-million metric tons.

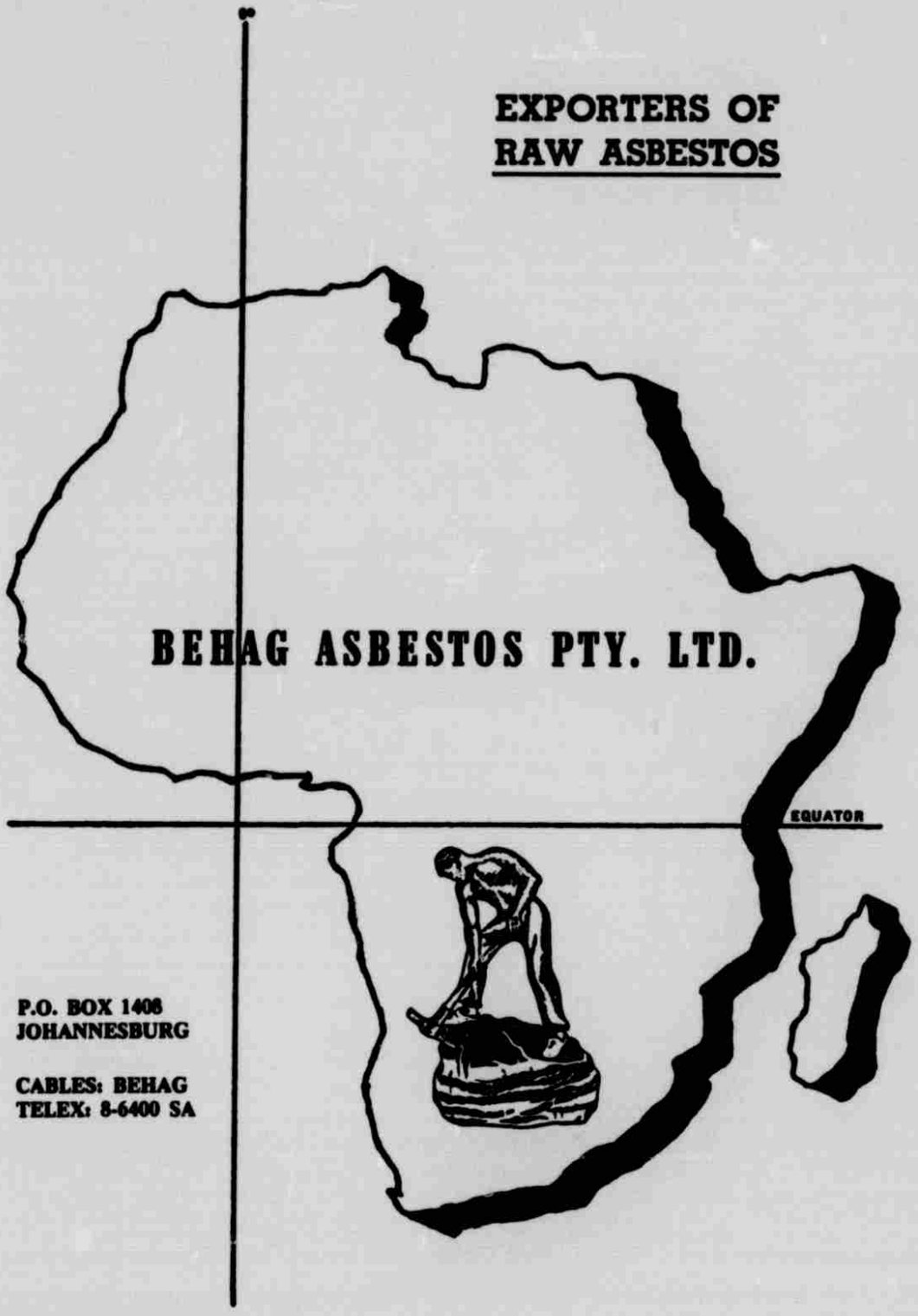
According to news reports, *Riotinto of Australia Ltd.* is one of a number of firms holding discussions with Woodsreef on the future of the mine. It is understood that up to five groups have looked over the Barraba mining operation including a former Canadian asbestos miner whose mines are no longer being worked. A spokesman for Chrysotile Corporation of Australia Pty. Ltd., the operating subsidiary of Woodsreef, stressed that the discussions thus far have been of a technical nature concerning performance and geological aspects of the mining operation.

NEW HOPE FOR WITTENOOM?

When the giant Marandoo iron ore project gets underway in Australia, the resultant decrease in transport costs from the area could make the reopening of the Wittenoom asbestos mine an attractive proposition. Messrs. Hancock and Wright, mining partners, hold rights to the asbestos mine and are equal partners with Texasgulf in the iron ore project. Mr. Hancock admits to only a mild interest in reopening the asbestos mine due to the many environmental and ecological problems and expenses that would be incurred. Blue asbestos was the partners' first mining venture back in 1938. Australian Blue Asbestos Co. Ltd. was formed in 1948 with Colonial Sugar Refining holding 51% and Hanwright the remainder. CSR closed the mine at the end of 1966 and Hanwright bought the mine, town and equipment.

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ANNUAL REPORTS, 1974

McADAM MINING CORPORATION LTD.

Current assets at the end of 1974 of McAdam Mining Corporation Ltd. were valued at $249,287.12 compared with $250,266.11 a year earlier. Current liabilities totaled $3,163.65 against $504.97.

Further test work was carried out in 1974 by Rio Tinto Canadian Explorations Ltd. on asbestos fiber from McAdam's property at Roberge Lake, Township of McCorkill, Quebec. Samples were prepared and sent to potential customers in several countries and personal visits were made to key marketing areas. In view of encouraging results in all phases of work done to date — including engineering, geological, technical and marketing surveys—SNC-Geco Ltd., a firm of engineering consultants, was retained early in 1975 to completely evaluate the project. The scope of the study is a total evaluation of fiber quality in consideration of present markets, reserve calculations and grade, flowsheet development and capital and operating costs for a complex capable of producing 100,000 tons of fiber per year. SNC-Geco has also been asked to prepare and advise on a program for continued development of the project. . . . Development of asbestos markets continues with the issuing of test samples from stock at the Quebec Pilot Plant to numerous potential customers on a worldwide basis. The Directors of McAdam feel the project is particularly significant at a time when world prices of and demand for asbestos have increased sharply.

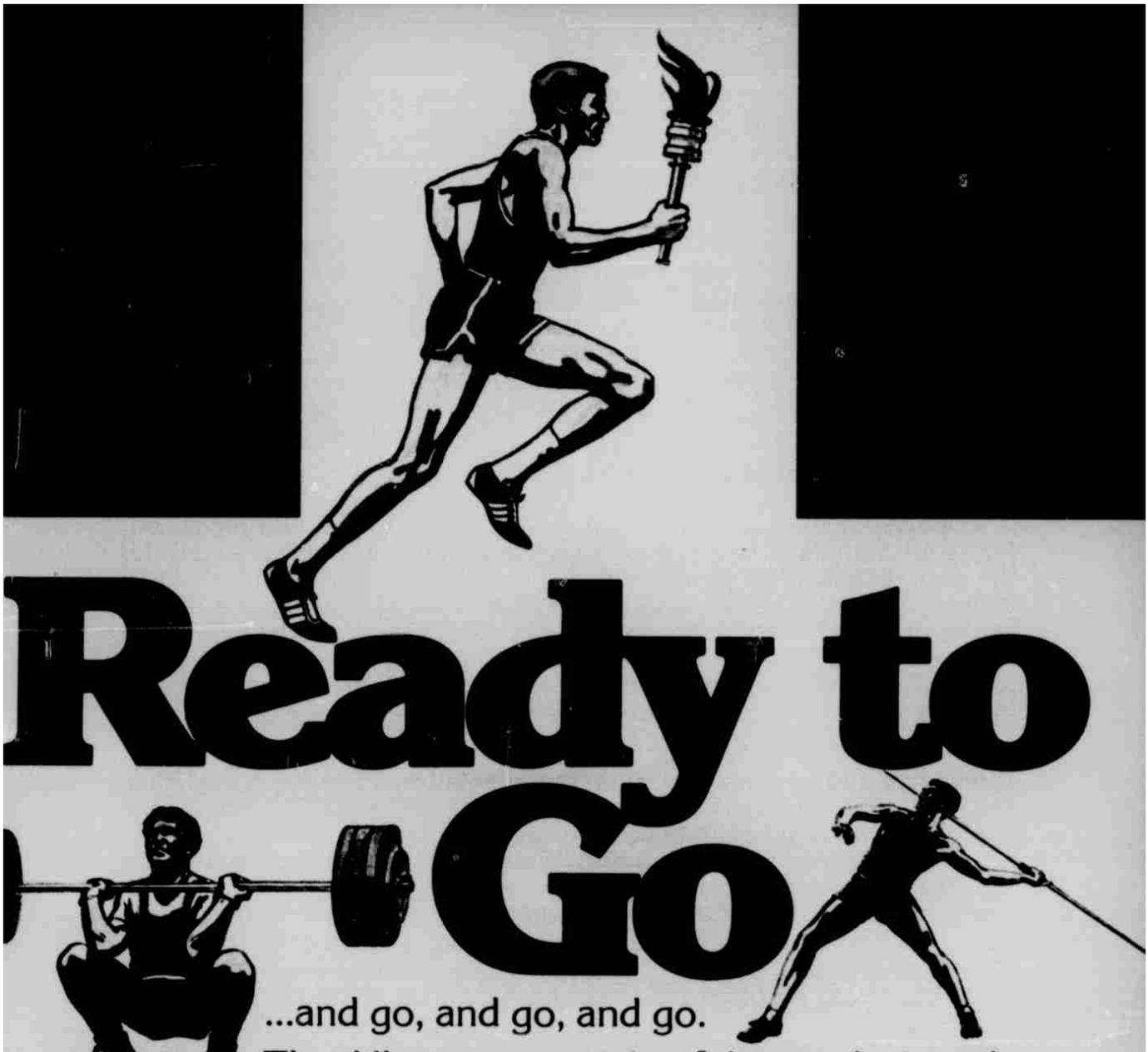
MSAULI ASBES LTD.

Msauli Asbes Ltd. showed further improvement in 1974 with increased production and sales in a stable market. An additional price adjustment was introduced pursuant to Canadian pricing policy and compensated for abnormal cost escalations which occurred during the second half of the year. . . . African Chrysotile Asbestos Ltd. is the operating company of the Group and undertakes mining activities in the Barberton District of the Republic of South Africa. General Mining and Finance Corporation Ltd. continues to provide loan facilities to Msauli Asbes.

Sales in 1974 amounted to R6,240,343 against R4,513,843 in 1973. Consolidated net profit totaled R801,273 compared with R555,145. Although a substantial increase in capital expenditure was forecast, only R407,000 was actually expended due to unavoidable delays in developing an acceptable pressure-packing system. An increase in capital expenditure to a possible R800,000 in 1975 may result due to normal requirements together with the carryover of projects from 1974, mechanized handling of packaged fiber, palletizing and the probable establishment of alternative depot and siding facilities at Carolina.

An unstable political situation in Mozambique repeatedly brought export traffic through Lourenco Marques to a standstill.

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Nevertheless a high level of exports was maintained by diverting traffic to alternate, although overly-congested, South African ports. . . . The rate of production of Chrysotile increased 22% during 1974 due mainly to continuous milling and a sustained recovery of shorter fibers. The current firm market outlook and the high rate of production now being maintained should produce satisfactory results in 1975.

SUPRADUR MANUFACTURING CORPORATION

Viewed against a background of inflationary forces and recession, Supradur Manufacturing Corporation believes its operating results for the year 1974 must be considered very satisfactory. Sales rose to $21.7-million, up from the high in 1973 of $15-million. The siding and roofing sector of the business accounted for about one-third of total sales. Net income totaled $1.4-million against $1.3-million and included a gain of $247,149 from foreign currency fluctuations. Return on net worth, or stockholders' equity, for 1974 amounted to 30.6%.

In the United States, Supradur markets its products through its own sales force and via manufacturers' representatives. The sharp decline in the U.S. housing market adversely affected Supradur's siding and roofing business although to some extent the situation was offset by increased activity in remodeling and renovation of existing homes and in the use of the materials in apartments and townhouses. . . . Export sales and foreign operations are conducted through Suprawall Corporation, New York City; Ambit A.G., Leichtenstein; and Hambau G.m.b.H., Germany. Supradur's export business, which includes sales of building materials made by other manufacturers, continued at high sales and profit levels. . . . The Canadian companies, which make and distribute heating and air-conditioning equipment and accessories, had satisfactory sales and profits despite an unforeseen downturn in building activity in Canada. The current energy situation has stimulated the replacement market in that country, particularly for new furnaces which are more economical and efficient. . . . The Supradur subsidiary that specializes in precision sheet metal work for high-technology industries concluded 1974 with a record backlog, indicating that the operation should have a highly satisfactory year in 1975.

UNIROYAL, INC.

Uniroyal, Inc., reported net sales of $2.3-billion for the year 1974 compared with $2.1-billion in 1973, $1.6-billion in 1970 and $1.2-billion in 1965. Net income of $48.6-million, equivalent to $1.65 per share of common stock, was 2% higher than for 1973. Problems persisted in the areas of inflation, the energy shortage and a lack of consumer confidence. . . . Funds generated from income and depreciation totaled $114-million—insufficient to provide the money required for capital expenditures and working capital to sustain the programs necessary for

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modernization and growth in all segments of the business. Hence Uniroyal began a program for the re-deployment of assets within the company. Loss or low-profit product lines are being eliminated to provide the monies needed for expansion in those lines which will result in a higher rate of return on invested capital.

Uniroyal owns or operates 47 manufacturing plants in the United States, 10 in Canada and 32 in other nations around the globe. It markets products through sales representatives or branches in more than 100 countries and grows its own natural rubber on 13 plantation properties in Malaysia, Indonesia and Liberia. Uniroyal is among the top 20 largest chemical manufacturers producing nearly one-billion pounds of chemicals annually. Plastics products are another major growth area of the company. . . . Materials of the Uniroyal Fiber and Textile Division are in a backorder position as demand continues strong for industrial textiles for conveyor belts, hose, filtration fabrics and other specialized uses.

ASBESTOS STOCK QUOTATIONS

Close—July 15, 1975

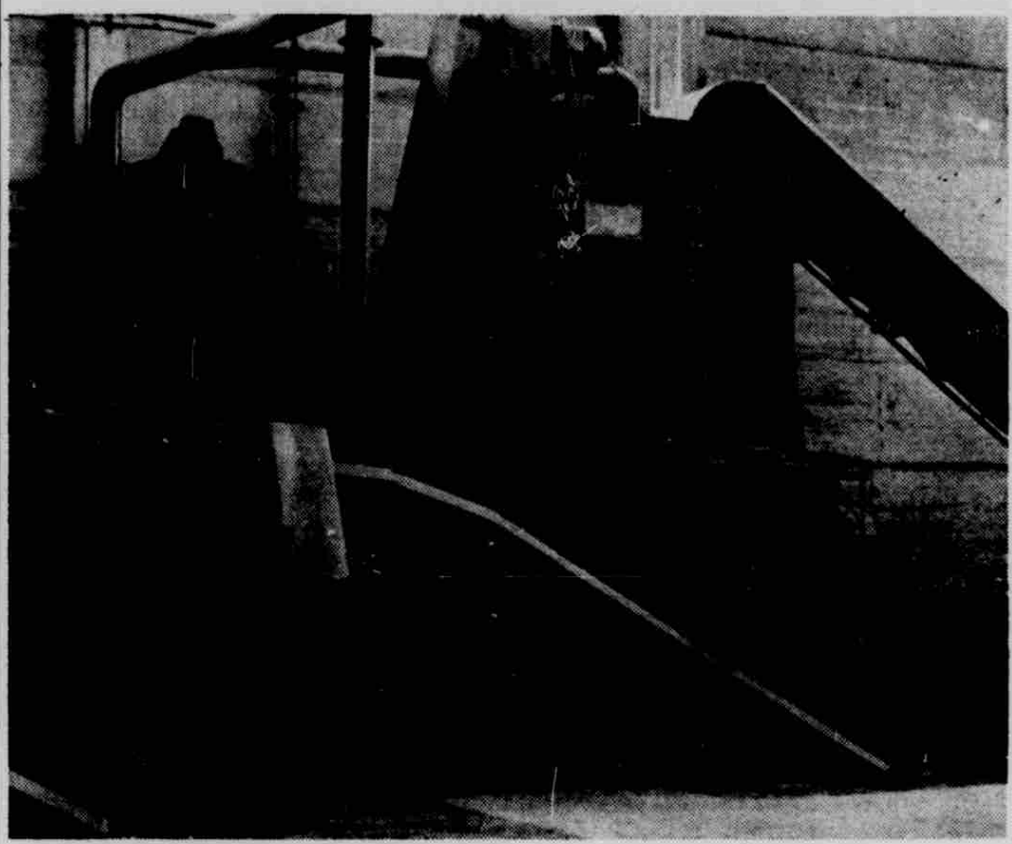
Abitibi Asbestos	*$1.30	G&W (pfd 5.75)	69 3/8
Advocate Mines	*$1.75	IC Industries	15 7/8
Armstrong Cork	26 3/8	IC Ind (pfd A-6)	74
Armst. Cork (pfd 3.75)	46	IC Ind (pfd 3.50)	36
Asarco	18 7/8	Jim Walter Corporation	42 1/8
Asbestos Corporation	*$21.00	Jim Walter (pfd 1.60)	45 3/4
Bendix	44	Johns-Manville	26 3/4
Bendix (pfd 3)	66	Kennecott Copper	39 1/8
Carlisle	13 1/8	Maremont	16 5/8
Cassiar Asbestos	*$6.00	McAdam Mining	*37.5c
Cerro Corporation	16 1/2	National Gypsum	14 3/8
Certain-teed Products	12 1/2	Pathfinder	*19c
Charter Consolidated	**183	Porter (pfd 5.50)	65
Conwest	*$3.60	Raybestos-Manhattan	28 3/4
Flintkote	20	Rio Algom	*$33.00
F-kote (pfd-A 4.50)	57	Royal Industries	7 1/8
F-kote (pfd-B 2.25)	28 5/8	Supradur (O.T.C.; Bid)	4 5/8
GAF Corporation	12 1/8	Union Carbide	62 1/8
GAF (pfd 1.20)	17 7/8	Uniroyal	9 5/8
Garlock	20 1/4	Uniroyal (pfd 8)	71 1/4
Gulf & Western	41	United Asbestos Inc.	5 1/2
G&W (when traded)	9 1/8	Woodsreef Mines	*5.8c
G&W (pfd 3.87)	72 1/4		

* Canadian Currency
** London—in pence

Sources: The Wall Street Journal & The Northern Miner

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BIRTHDAY GREETINGS to . . .

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

W. John Scotford, Technical Director, Wunderlich Ltd., Sydney, New South Wales, Australia, September 15.

Chester E. Shepperly, Sr. Vice President, Building Materials Divisions, Johns-Manville Corporation, Denver, Colorado, September 15.

William L. VanDerbeek, Sr. Vice President, Asbestos Fiber, Mining, Canadian Products & Pipe Divisions, Johns-Manville Corporation, Denver, Colorado, September 15.

Jack L. Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 16.

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

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

J. D. Christian, Chairman of the Board, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, September 19.

W. W. Oughtred, President & Chief Executive Officer, Asbestos Corporation Ltd., Montreal, Quebec, September 19.

William R. Whitener, General Manager, Atlas Asbestos Company, Coalinga, California, September 20.

Philip M. Malouf, Chairman of the Board, United Asbestos Inc., Montreal, Quebec, September 21.

John B. Proctor, Vice President-Manufacturing Operations, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, September 21.

Jay P. Nicely, Vice President-Sales, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, September 22.

R. A. Chown, President, Albion Asbestos Packings Ltd., Montreal, Quebec, September 23.

Donald E. Meads, Chairman & Chief Executive Officer, Certain-teed Products Corporation, Valley Forge, Pa., September 23.

Richard F. Dooley, Vice President, United Asbestos Inc., Montreal, Quebec, September 24.

Jack B. Stiles, Works Manager, Wunderlich Ltd., Rosehill, New South Wales, Australia, September 24.

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

Robert M. Gordon, President, Raybestos-Manhattan, Inc., Trumbull, Connecticut, September 25.

H. Leonard Falle, Vice President-Marketing, Atlas Asbestos Company, Montreal, Quebec, September 26.

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BIRTHDAYS—CONTINUED

S. J. McDuff, Vice President & General Manager, Pipe Division, Johns-Manville Sales Corporation, Denver, Colorado, September 26.

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

Fred C. Phillips, Director of Marketing, Uniroyal Fiber & Textile, Winnsboro, South Carolina, September 28.

Sir William Fenton, Honorary President, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 29.

James E. Lafferty, Jr., Director of Purchasing, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, September 29.

William K. Murray, Director of Advertising & Public Relations, Asarco Incorporated, New York City, September 30.

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

Richard P. Clark, Product Sales Manager, Uniroyal Fiber & Textile, Winnsboro, South Carolina, October 4.

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

Robert B. Pilmer, President, Garlock of Canada Ltd., Toronto, Ontario, October 7.

Robert H. Feeney, Director of Advertising, Building Products & Industrial Divisions, Johns-Manville Corporation, Denver, Colorado, October 8.

Edward A. Schuman, Product Manager-Sheet Packing, Johns-Manville Corporation, Denver, Colorado, October 9.

G. P. Osterloh, Managing Director, Putten's Asbestos Corporation of South Africa (Pty.) Ltd., Johannesburg, Republic of South Africa, October 10.

J. G. Berry, General Manager & a Director, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

H. R. Fraser, Product Manager-Transite Pipe, Canadian Johns-Manville Co. Ltd., Port Credit, Ontario, October 12.



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NASA TECH BRIEFS

B73-10364/STRUCTURAL HEAT PIPE—Discusses the prevention of unnecessary heat loss or gain in the design of insulation systems (Goddard Space Flight Center, Greenbelt, Maryland).

B73-10416/CONTAINER SEAL FOR DUSTY ENVIRONMENT—Method devised to maintain the cleanliness of joint-sealing surfaces under dust-laden conditions (Langley Research Center, Hampton, Virginia).

B74-10122/GUIDEBOOK OF NONDESTRUCTIVE EVALUATION TECHNIQUES FOR MATERIALS AND STRUCTURES—Describes 70 nondestructive techniques for evaluating materials and structures; compares the merits and limitations of the techniques for solving various problems (Lewis Research Center, Cleveland, Ohio).

B74-10247/ADVANCED FIBER-COMPOSITE HYBRIDS—Defines a new structural material with improved strength and stiffness for multidirectional loading, better resistance to cyclic loading and more impact and erosion resistance (Lewis Research Center, Cleveland, Ohio).

ASTM TECHNICAL BOOKS

STP 544/HEAT TRANSMISSION MEASUREMENTS IN THERMAL INSULATIONS—Discusses the need for new and improved methods for measurement of thermal performance of thermal insulation materials and systems [319 pages; hardbound; Publication Code #04-544000-10; $30.75].

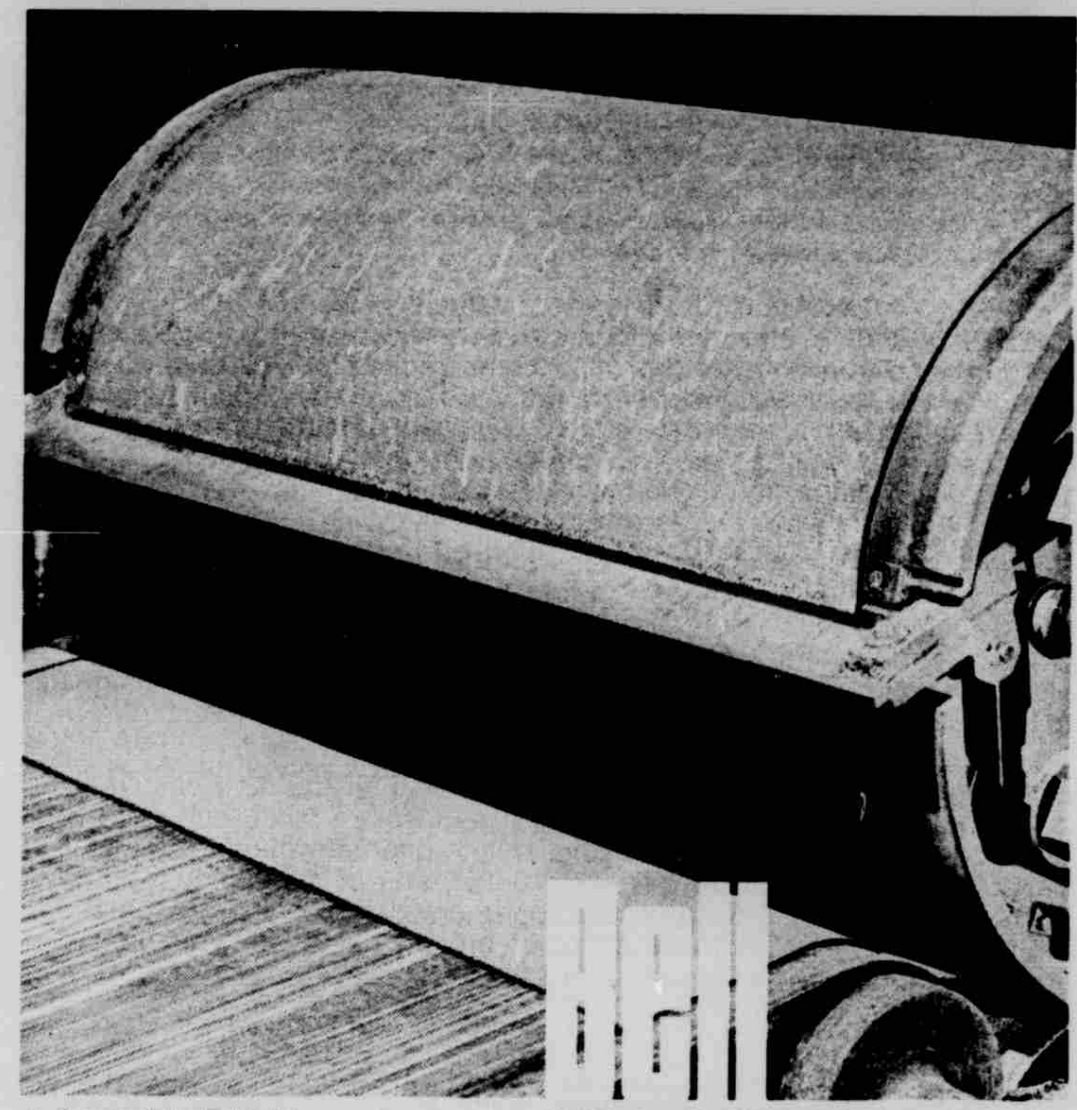
STP 546/COMPOSITE MATERIALS: TESTING AND DESIGN (THIRD CONFERENCE)—Focuses on the design of engineering applications of composite materials in industrial, military and consumer uses, the testing of such materials and products and the service behavior and performance of the products [683 pages; hardbound; Publication Code #04-546000-33; $39.75].

STP 555/INSTRUMENTATION FOR MONITORING AIR QUALITY—Provides useful information to users and potential users of air monitoring instruments; environmental laboratories will find it helpful prior to buying expensive equipment [200 pages; hardbound; Publication Code #04-555000-17; $15.25].

AGENCY DIRECTORY

NATIONAL DIRECTORY OF STATE AGENCIES 1974/75—Guide to the functions, agencies and key personnel in the governments of the 50 U.S. States and the District of Columbia; contains over 6,000 entries including key telephone information numbers; includes a sub-directory of major associations of state government officials [Information Resources Press, a division of Herner & Company; 601 pages; hardbound; $50.00].

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NEW ASBESTOS PATENTS

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

British 1,386,887—Extruded or molded fire-retardant structural shapes are produced from a mixture of (1) a major portion by weight of phenol-formaldehyde resin, (2) lesser amounts of magnesium silicate powder and expanded perlite and (3) a filler such as asbestos, mica, magnesium carbonate, slate, silica, etc.; H. Lievremont and A. Cominassi; March 12, 1975; 3 pages.

British 1,387,719—In the application of a refractory coating to a curved surface, a mixture of orthophosphoric acid, magnesium hydroxide and about equal parts by weight of asbestos and expanded perlite is sprayed onto the surface, the wet coating dried to a gel and the gel heated to eliminate water of crystallization of the orthophosphoric acid; assigned to Ste. Gen. des Produits Refractaires, March 19, 1975; 3 pages.

British 1,389,172—Disc brakes or drum brakes having high heat resistance and good adhesion to metal are formed from a mixture of (1) 4-6.5 parts by weight of a thermosetting aniline-phenolformaldehyde, (2) 1 part of butadiene-nitrile rubber, (3) 10-15 parts of asbestos, (4) 3.5-7 parts of barite, (5) 2-5 parts of copper powder, (6) 1.5-4.5 parts of alumina and (7) optimum amounts of bronze chips, molybdenum disulfide, graphite, kaolin and/or other fillers; G. E. Georgievsky, et al.; April 3, 1975; 4 pages.

British 1,390,026—Automobile heater ducts or other ignition-resistant articles are formed from a mixture of (1) 40-90% by weight of polypropylene, polystyrene or the like, (2) 5-40% of Chrysotile asbestos and (3) 2.5-20% of antimony trioxide or other fire-retardant additive; G. L. Wicker; assigned to TBA Industrial Products Ltd., April 9, 1975; 8 pages.

Canadian 964,018—In the high-speed manufacture of high-strength asbestos yarn, asbestos strands in a coagulating bath are elongated by about 400%, the elongated strands passed through a zone of low tension for final coagulation and the strands merged into a multi-ply yarn; J. T. Trainor & J. F. Orzechowski; assigned to Raybestos-Manhattan, Inc., March 11, 1975; 17 pages.

Canadian 964,803—A material for lessening vibration-induced noise in moving parts consists of one or more sheets of asbestos-fiber-filled bitumen having the fibers in the form of a plurality of discrete laminae lying parallel to the plane of the sheet; H. W. Kingsbury; assigned to British Uralite Ltd., March 25, 1975; 12 pages.

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Canadian 965,528—A thixotropic composition for protecting roofs or vehicle bodies against light, heat and/or sound comprises raw linseed oil, butyl rubber, xylene, aluminum paste, silica gel, rubber fibers and Grade 7M Chrysotile asbestos or the like; D. R. Brothers; April 1, 1975; 13 pages.

U.S. 3,872,205—A flexible insulation sheet for affixing to a rocket motor casing is formed by fabricating a mixture of a carboxyl-terminated polybutadiene binder, a curing agent, a curing catalyst, asbestos fibers and asbestos floats; J. Ratte & J. Bigras; assigned to the Minister of National Defense, Canada, March 18, 1975; 11 pages.

U.S. 3,873,106—Jointless, reinforced packing rings are made by impregnating asbestos yarn with urethane resin solids, winding the impregnated yarn in the form of a helix, coating the helix with additional polymer and heating the coated helix to consolidate the yarn convolutions and set the binder; E. Pastelak; assigned to Raybestos-Manhattan, Inc., March 25, 1975; 5 pages.

U.S. 3, 875,504—In the drying of crushed asbestos ore prior to defiberization and grading, the moisture content of a sample is read on a conductivity meter having a pair of spaced-apart electrodes and the readings converted to signals which actuate appropriate control apparatus; F. M. Bodycomb, Jr., & J. J. Barna; assigned to Johns-Manville Corporation, April 1, 1975; 5 pages.

ASBESTOS/A REMARKABLE MINERAL FIBER—New reference book on asbestos, by Marion S. Badollet, that presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [Send your order and advance payment to Mr. Badollet, 563 E. Front Street, Apt. 589-B, Plainfield, N. J. 07062—U.S. $20.00 per copy including postage.]

BRIAN H. DONNER, P.Eng.
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CALENDAR OF EVENTS

2ND ANNUAL INDUSTRY-GOVERNMENT CONFERENCE—Sponsored by the Asbestos Information Association/North America; Mayflower Hotel, Washington, D. C., *September 10-11.*

18TH INTERNATIONAL CONGRESS ON OCCUPATIONAL HEALTH—Program includes 21 papers on asbestos; Hotel Metropole, Brighton, England, *September 14-19.*

4TH INTERNATIONAL SYMPOSIUM ON INHALED PARTICLES & VAPORS—Edinburgh, Scotland. *September 22-26.*

ASTM COMMITTE MEETINGS—D-30 on High Modulus Fibers and Their Composites, Sheraton-Biltmore, Atlanta, Georgia, *September 22-23;* E-2 on Emission Spectroscopy, Sun Rise Castle, Fort Lauderdale, Florida, *September 22-24;* C-16 on Thermal and Cryogenic Insulating Materials, Drake Oakbrook Hotel, Oakbrook, Illinois, *October 5-8;* D-22 on Methods of Sampling and Analysis of Atmospheres, Sheraton Hotel, Philadelphia, Pennsylvania, *October 5-9;* and D-13 on Textiles, Belmont Hotel, New York City, *October 6-9.*

MINERAL MANAGEMENT & ENGINEERING—Seminars offered at McGill University, Montreal, Quebec: The Management of Canada's Mineral Resources, *September 22-24;* Isolated Communities and the Mineral Industry, *October 6-8;* Health and Safety Aspects of the Mine Environment, *October 20-24;* and Engineering Aspects of the Mine Environment, *October 27-31.*

NOISE CONTROL IN INDUSTRIAL & MANUFACTURING PLANTS—Courses held by Bolt Beranek and Newman, Inc.: Chicago, Illinois, *September 22-24;* Santa Monica, California, *October 6-8;* and Cambridge, Massachusetts, *October 28-30.*

AMERICAN MINING CONGRESS—Mining Convention; San Francisco, California, *September 28-October 1.*

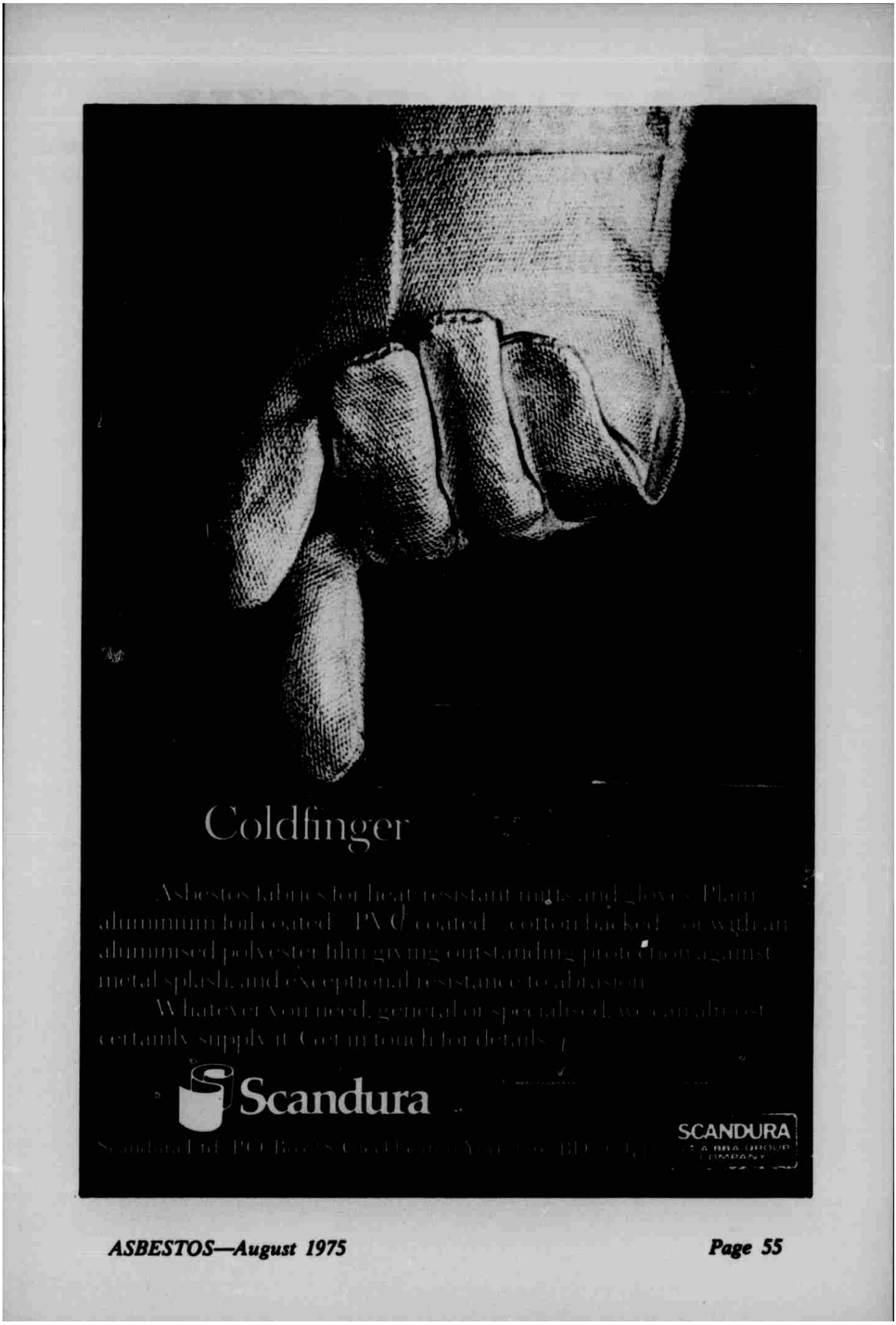
TEXTILE ENGINEERING CONFERENCE—American Society of Mechanical Engineers; Greenville, South Carolina, *October 1-2.*

ASBESTOS TEXTILE INSTITUTE—1975 Annual Meeting; Amelia Plantation Island, Amelia Island, Florida, *October 1-3.*

THE USER & FABRIC FILTRATION EQUIPMENT—International specialty meeting of the Air Pollution Control Association; Statler-Hilton, Buffalo, New York, *October 6-7.*

SYMPOSIUM ON EPIDEMIOLOGY & ONCOLOGY & PREVENTION OF ASBESTOSIS—Rouen, France, *October 27-30.*

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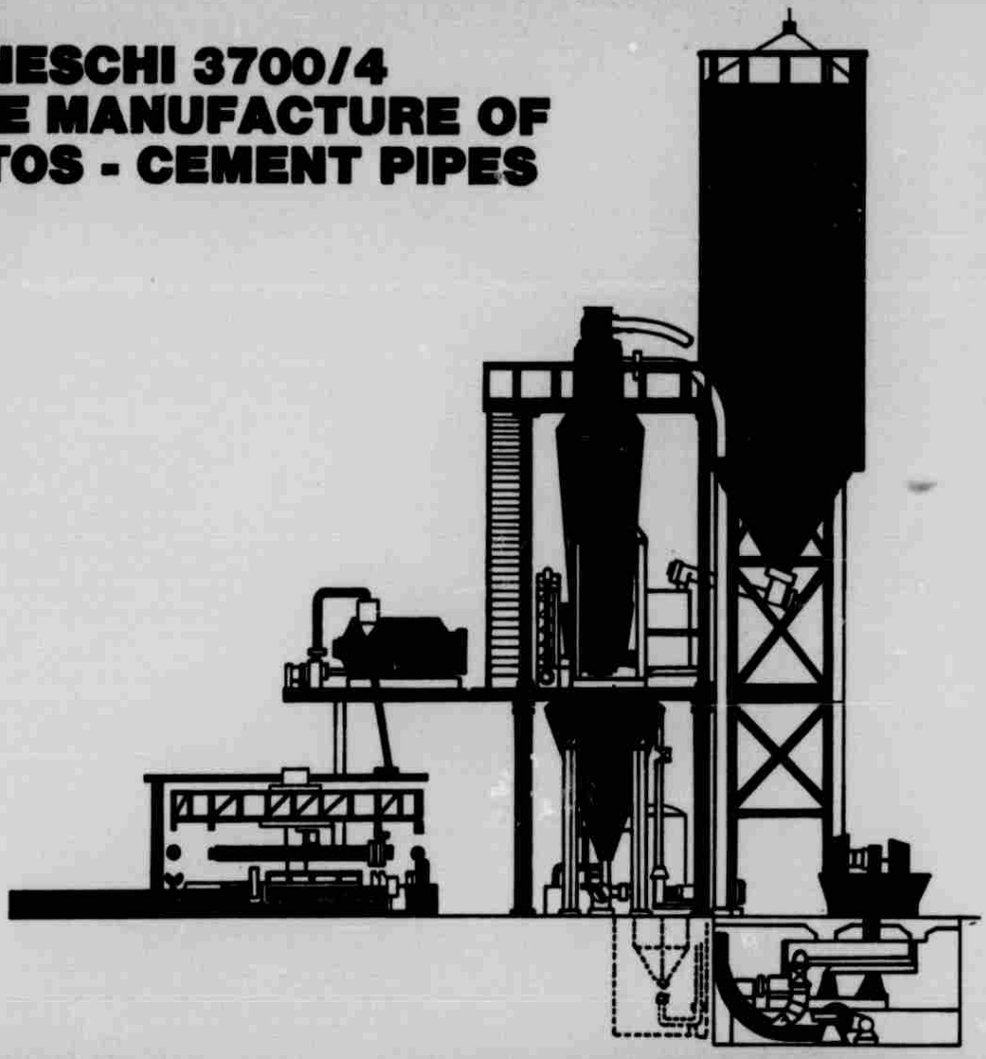


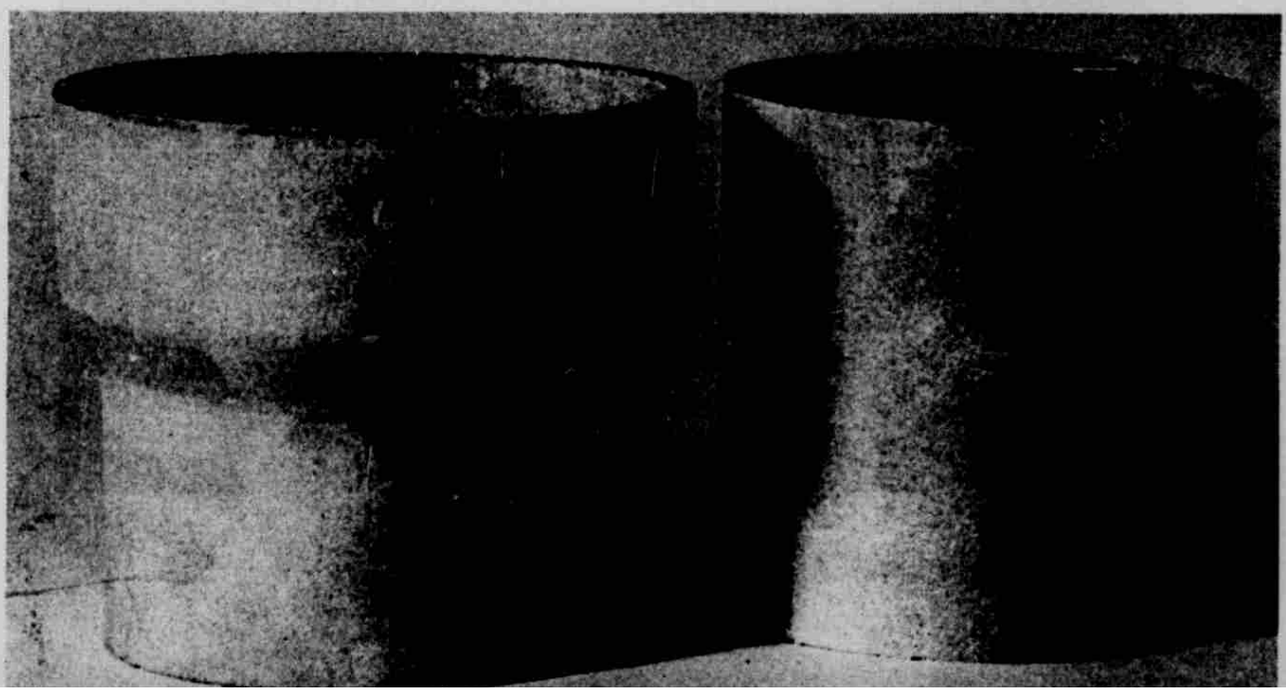
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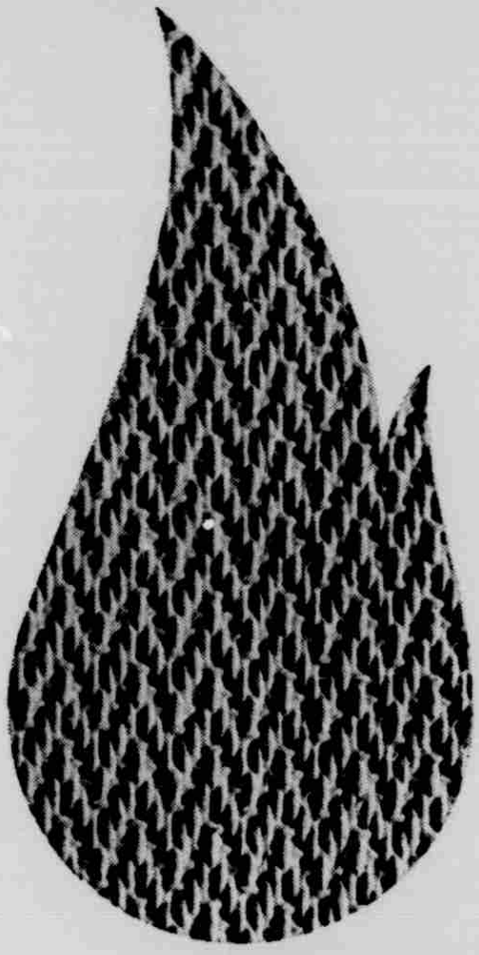
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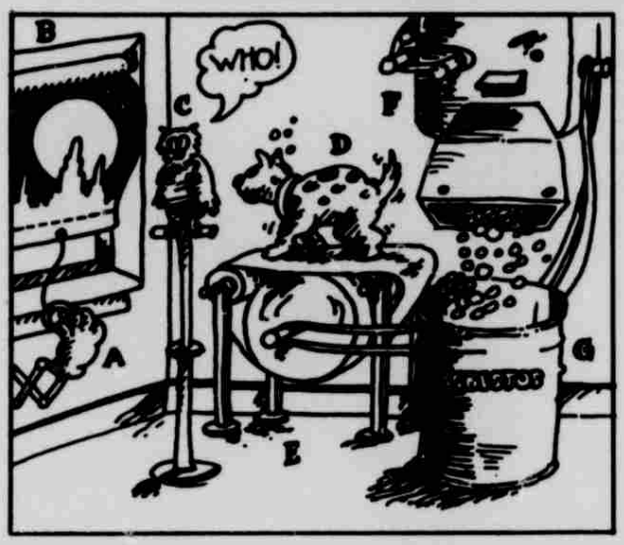
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