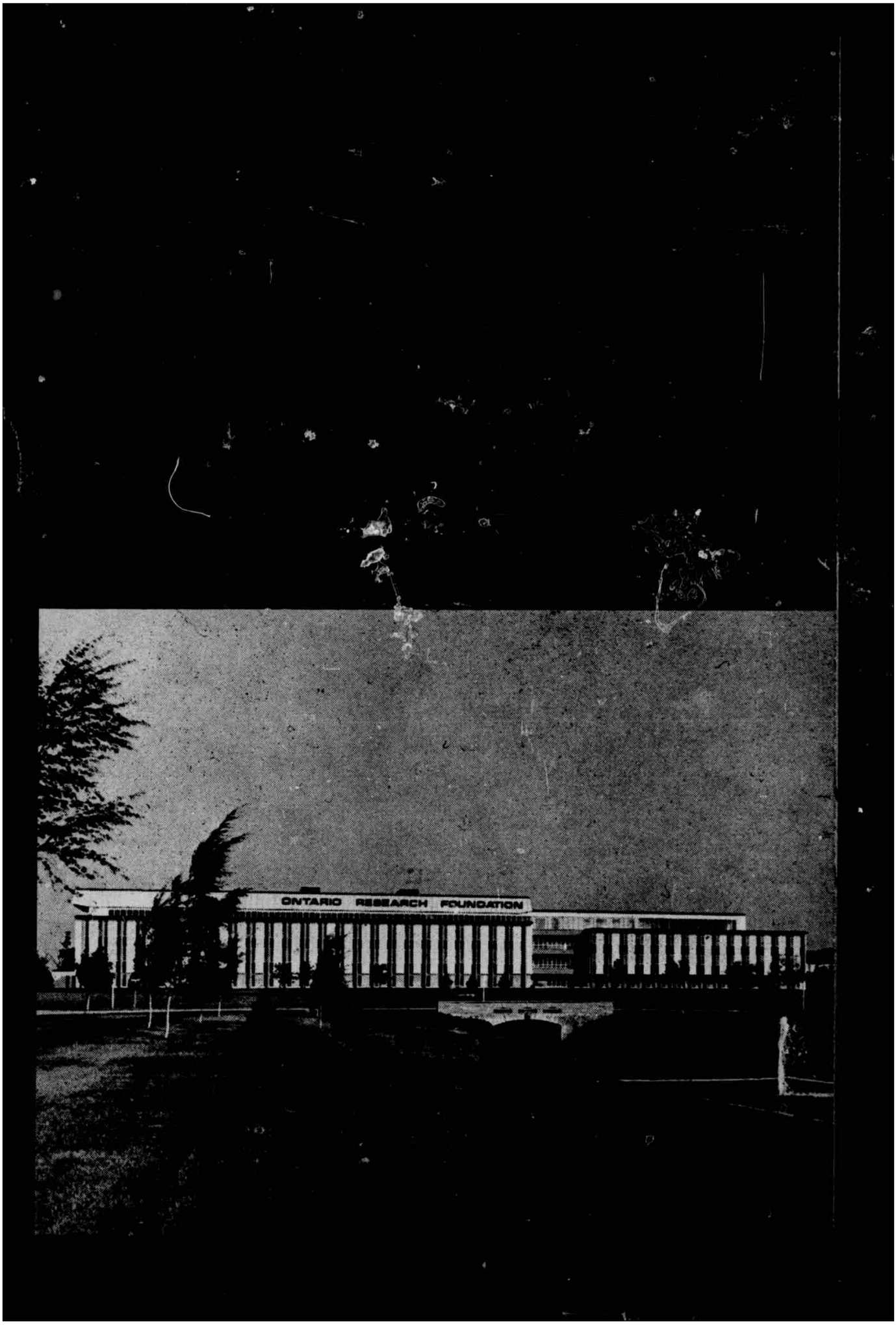
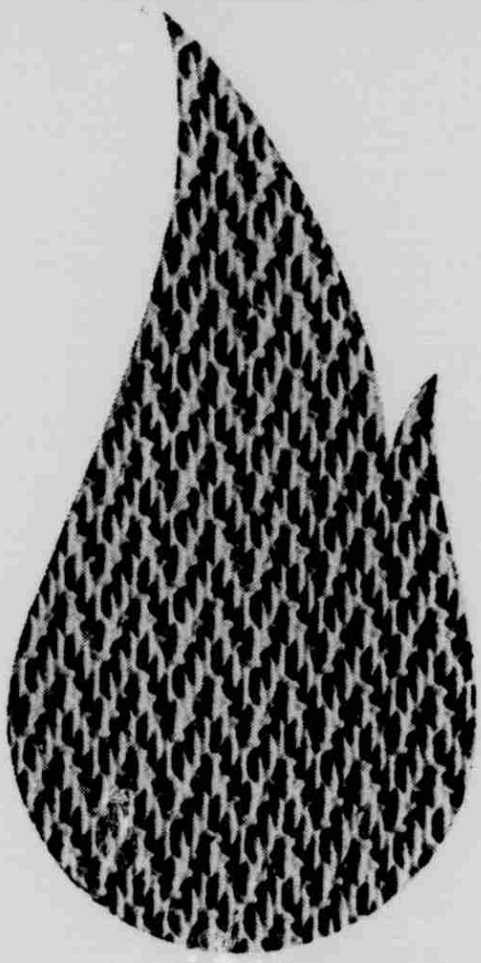

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# FIBER RESEARCH, DEVELOPMENT & TESTING
## At Ontario Research Foundation

***By: Dr. R. A. Kuntze****

The Ontario Research Foundation (ORF) is Canada's largest and most comprehensive contract research organization. It was established in 1928 by joint action of the Government of Ontario and the Canadian Manufacturer's Association to provide a variety of technological services such as research, development, engineering and testing for industry and government departments. The laboratories and pilot plant of ORF are located in Mississauga, about 20 miles west of Toronto, forming part of the Sheridan Park Research Community.

ORF is a multidisciplinary institution, with some 300 scientific and technical staff organized into seven departments. The major part of the work carried out on asbestos fibers and products containing asbestos is the responsibility of the Department of Materials Chemistry. The facilities located in this Department are designed for dry and wet fiber testing, asbestos-cement testing, evaluation of asbestos-reinforced polymer composites, fiber length and shape, chemical analysis, microscopy, thermal analysis, etc. Fiber opening, handling, classification and the evaluation of small core drill samples are carried out in a small pilot plant.

### FIBER LABORATORY

The Fiber Laboratory has a comprehensive range of test equipment for the determination of length and diameter distribution including four- and five-tank McNett classifiers and T&N Elutriators and Classifiers. A number of surface area instruments are also available, such as the T&N Rapid Surface Area Apparatus, the Dyckerhoff Apparatus, the CAC tester and the Fisher Sub-Sieve Sizer. Tests for freeness, buoyancy, magnetic rating, rock or -200 mesh content are carried out routinely, as are the Quebec Standard and the Ro-Tap Tests. These tests provide the basis for routine fiber evaluation of materials from both established and newly-developed deposits throughout the world.

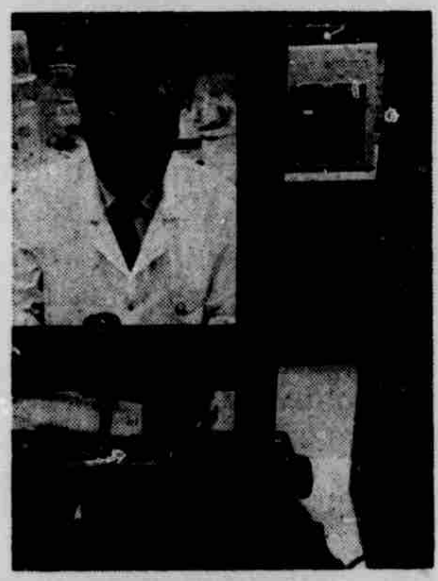
The most frequently requested fiber quality evaluation

***EDITOR'S NOTE: Dr. Kuntze is Director, Department of Materials Chemistry, Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, Canada. We are grateful to him for contributing this article on the actiivties of the ORF and are certain our readers will find it informative and of interest.**



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relates to the requirements of the asbestos-cement industry. Asbestos-cement reinforcement values are determined by both the Strength Unit Test Method and a modification of procedure "F3—Strength in Asbestos Cement Products," as shown in the Chrysotile Asbestos Test Manual, 1974 edition. These tests are used to establish the comparative reinforcing value of different types and grades of asbestos. The latter procedure is also used to study the effect of variables such as fiber length, fiber concentration or surface area on the strength of asbestos-cement test specimens. Fiber opening, furnish blending, specimen pressing, autoclaving, curing and flexural strength procedures are combined in these tests and the full range of equipment is available for this purpose. Other factors which influence asbestos-cement manufacture such as filtration properties have been widely examined in the Laboratory.



USING THE INSTRON TESTER TO DETERMINE FLEXURAL STRENGTH OF STRENGTH UNIT PLAQUE

Chemical and thermal analysis provide invaluable information on the type, origin, degree of weathering and contamination of asbestos fibers. Wet-chemical analysis, x-ray diffraction, x-ray fluorescence, infra-red spectroscopy, electron microscopy, microprobe spectroscopy, thermogravimetry, differential thermal analysis and evolved water analysis are all widely used in examining specimens for clients.

**DIMENSIONAL ANALYSES**

Although the length, diameter and shape of fibers are widely recognized to be of paramount importance in establishing the physical properties of the fibers in textiles, com-




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posite materials, or asbestos cement products, detailed measurements of the physical dimensional characteristics have been limited, principally because of the tedious nature of the work. Two relatively new instruments are being used at ORF to carry out dimensional analyses of fibers:

a) Rapid manual measurements of fiber lengths and diameters using a Hewlett-Packard Digitizer interfaced with a Hewlett-Packard 9830A desk-top calculator. The measurements can be made on either 14" x 11" photographic prints or projected images of the fibers.

b) Automatic measurements of fiber lengths, diameters and shapes, primarily for low surface area Groups 5, 6 and 7 fibers. These use a Quantimet 720 image analyzing computer. The analysis is very fast and reasonably accurate in terms of defining the physical parameters.

Current work is being carried out on Bauer-McNett and T&N Classifier fractions of spinning grade fibers to establish the length distribution of the fractions retained on each screen.

**LENGTH DISTRIBUTION & MEASUREMENT**

The measurement of airborne asbestos dust is carried out routinely using the standard NIOSH test. However, the well-known limitations of the test have been thoroughly investigated with a view to providing a fast, more accurate analysis based on the Quantimet 720 image analyzing computer. Development work is being carried out on improving the quality of the standard phase contrast image. If this work is successful, the speed, sampling and accuracy of the membrane filter analysis will be greatly increased resulting in more reliable values.

Analyses can currently be carried out using the digitizer to measure fibers on projected images of the standard sample preparation. Although slower than the Quantimet, this technique is faster than the standard NIOSH technique and gives data on the size distribution of fibers as well as weight concentrations, based on measurements of the length and diameter of the fibers.

In recent years, ORF has developed internationally-accepted techniques for the measurement of asbestos particles in both air and water. In order to determine amounts and types of asbestos in extremely low concentrations, ORF uses particle counting by electron microscopy combined wtih electron diffraction. As traces of asbestos can be found in the atmosphere due to release from natural


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outcroppings exposed to air and water, and commercial applications, it is necessary to employ a number of precautions to minimize possible contamination of air and water samples. Of primary importance is a positive-pressure clean room where these critical operations are performed. Although these measurement techniques have provided reliable data, further development work in the field of quantitative sample preparation is being carried out with the aim of defining optimum analytical procedures.

**PILOT PLANT**

The ORF maintains a small pilot plant for further processing, opening and classification of milled asbestos fiber in limited quantities. A Bauer Centrisonic Classifier is used to separate crude from opened fiber or to remove rock, spics, etc. Specialty grades with varying properties, such as asbestos-cement and filtration characteristics, are prepared by combinations of opening and classification for subsequent evaluation on a plant scale. Similarly, it is possible to process relatively small quantities of core drill samples using combinations of crushing, pulverizing, screening and classifying. The apparent value of the fiber in the sample can then be determined based on the concentration of the fiber in each grade and the properties of the fiber as established by laboratory tests and analyses.



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**THE COVER:** The Ontario Research Foundation building at Sheridan Park, Mississauga, Ontario.




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# THRU THE ENVIRONMENTAL MAZE

## SOUND LEVELS REDUCED AT T&N

Turner & Newall Ltd., one of Europe's leading manufacturers of noise reduction and insulation materials, recently held a Symposium on Noise Pollution to discuss developments within the T&N Group based on experience of its subsidiary companies. When noise levels warrant, workers throughout the Group are provided with ear-muffs, or ear-down, as protection. In addition, a variety of engineering improvements are being developed to reduce excessive noise at its source. . . . *TBA Industrial Products Ltd.*, the largest asbestos textile manufacturer outside the United States, uses weaving, spinning and winding machines to produce a wide variety of textile materials. Recent developments at TBA have been concentrated on the enclosure of noise components, including a new type of enclosure device for winding machines which is now under test. The device takes the form of a conical hood of sheet metal lined with sound-reduction material and includes transparent viewing panels. Preliminary results indicate that sound levels are reduced by about 13%. . . . One of the main problems faced by *TAC Construction Materials Ltd.* was to reduce the noise incurred when cutting asbestos-cement sheets. By increasing the number of teeth on 14"-diameter saws from 56 to 80, a reduction of 8-11 dBA (equivalent to a reduction of approximately 75% in sound pressure levels) was achieved. Soundproof booths, lined with Newalls mineral fiber, were built to enclose the saws, enabling further reduction in noise levels. . . . Top T&N executives attending the Symposium were Managing Directors S. Gibbs and C. W. Newton. Mr. Gibbs stressed that the legal requirements of the U.K. Government's Codes of Practice and other publications should be regarded as merely satisfactory minimum requirements and that every effort should be made to improve living and working environments and to keep ahead in the field of pollution control. Mr. Newton welcomed the exchange of ideas and experiences between companies working on similar noise problems as a means of improving cost effectiveness—most important in light of today's economic conditions.

## CANADIAN CAPERS

A report on airborne concentrations of asbestos fibers at *Cassiar Asbestos Corporation Ltd.*, Clinton Creek, in the Yukon, was made public in March by the Department of


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National Health and Welfare. Samples taken at the mill showed that 12 of 16 occupations studied fell between the British "2-fiber" standard and the U. S. "5-fiber" standard. Four of 8 in-mine samples had exposures below the 2 fibers per milliliter level. At the townsite the highest concentration measured was 0.04 fiber per milliliter. Improvements in housekeeping and control methods were recommended and inspectors will be periodically monitoring concentrations of airborne asbestos at the mine and mill. . . . Canada does not have a *national standard* for asbestos exposure although the House of Commons' Environment Committee has advised that the Federal Environment Department will establish emission standards for asbestos plants by the end of this year. Provincially speaking, *Ontario* now allows 2 fibers per cubic centimeter and pressures for an immediate 5-fiber standard in *Quebec,* to be reduced to 2 fibers in 1976, are being voiced by the Confederation of National Trade Unions' local which represents the some 3500 asbestos workers now striking in Thetford Mines. . . . In April an industry spokesman said that the asbestos mining companies in Quebec have asked the Federal and Provincial governments to establish health standards for use at the mines and mills and to find a good, reliable method of counting airborne asbestos fibers. It was stated that the industry has had continuous contacts with government for over two years.

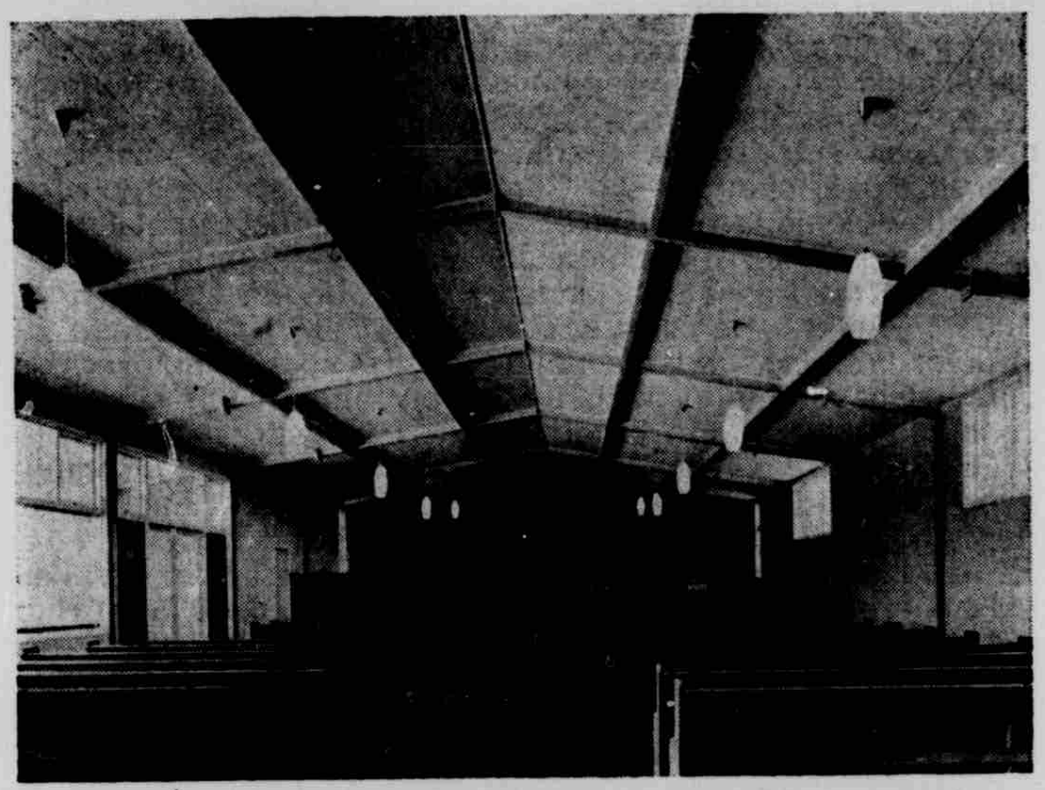
## EPA SAMPLING PROGRAM

The U.S. Environmental Protection Agency will conduct a nationwide sampling program to determine if there are significant levels of *asbestos in drinking water.* According to an Agency spokesman, the inhalation of asbestos from the air in large quantities can cause cancer but there is debate in scientific circles about its health impact when contained in drinking water. EPA has selected 32 sampling locations throughout the United States to monitor asbestos discharges into water from various sources such as asbestos mining and manufacturing, mining of other ores such as talc and vermiculite that may be sources of asbestos, and natural runoff of asbestos from rock formations. Sampling sites will include the water supplies of several major cities.

## OSHA RECODIFIES & INSTRUCTS

The Occupational Safety and Health Administration has *renumbered the air contaminants section of its general in-*


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Fire resistant, lightweight insulation panels and sheets containing amosite asbestos are used to line the walls and ceiling in this church in Toukley, N.S.W.


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*dustry standards* to accommodate the large number of complete toxic substances regulations it expects to promulgate as part of its standards completion project for some 400 hazardous substances. Standards heretofore contained in "Part 1910/Subpart G—Air Contaminants" have been placed in a new "Subpart Z—Toxic and Hazardous Substances." Accordingly, the recodification changes "Subpart G/Part 1910-93a (the Asbestos Standard)" to "Subpart Z/Part 1910-1001." [Federal Register of 5/28/75 & 6/3/75]. . . . *Free instructor training courses* aimed at assisting employers in complying voluntarily with job safety and health rules are scheduled during the latter half of this year at the OSHA Training Institute. The week-long, 40-hour Voluntary Compliance Course No. 500-2 will be held July 21, August 18, September 15, October 20, November 17 and December 15. Registration forms are available from the Registrar, U.S. Department of Labor, OSHA Training Institute, 10600 West Higgins Road, Rosemont (near Chicago), Illinois 60018.

## HEW FUNDS RESEARCH

Under a $50,000 grant from the U.S. Department of Health, Education and Welfare, a *pilot lung cancer screening research program* will be conducted by Union Carbide Corporation at its Holifield National Laboratory, Oak Ridge, Tennessee. Program objectives are to locate data on prevalence of atypia (a degenerative change in the lung which may be precancerous) in a working population; to identify high-risk populations on the basis of history of lung disease, degenerative changes in cells and exposure to pulmonary irritants; and to screen a working group for lung cancer [AIA/NA]

## STATE-SIDE BLURBS

*California*—The Bay Area Air Pollution Control District passed controls prohibiting visible emissions from asbestos manufacturing and the use of asbestos tailings in road surfacing and setting forth limitations and specifications concerning sprayed asbestos, fabric filters, collection equipment and demolition. . . . The California Medical Association has urged the state to investigate the potential health hazard posed by asbestos fibers in drinking water. The definitive study was requested subsequent to a report that



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asbestos may be present in San Francisco's drinking water. . . . *Connecticut*—The Electric Boat Division of General Dynamics Corporation and the Pipefitters Union Local 620 have opened investigations into possible lung damage to pipecoverers in the shipyard at Groton. The union says that 22 pipecoverers who worked with asbestos at the yard have died of respiratory failure in the last 17 years. No one knows for sure if asbestos and the deaths are linked. Heading the medical team will be Dr. I. J. Selikoff of Mt. Sinai School of Medicine and Dr. A. Gaensler of Boston University School of Medicine. . . . *New York*—A medical team from the State Labor Department will examine some 80 plasterers in the Buffalo area for lung damage resulting from exposure to asbestos dust. The workers have been involved in fireproofing work utilizing sprayed asbestos.

## LAW SUITS

*Houston, Texas*—Nine construction workers who say they contracted lung diseases because of exposure to asbestos have brought a $2-million damage suit against 13 companies. The workers said their employers did not warn them of the dangers of handling asbestos. Each plaintiff said his exposure to asbestos was for a period of at least 20 years. The defendants are Armstrong Cork, Celotex, Combustion Engineering, Eagle Picher Industries, Fibreboard Corporation, Johns-Manville International, Keene Corporation, Owens-Corning Fiberglas, Pabco Industrial Products, Pittsburgh Corning, Ruberoid, Standard Asbestos Manufacturing & Insulation, and Unarco Industries. . . . *Passaic, New Jersey*—Five asbestos firms were charged in a civil class action suit with negligence leading to illness and disability of at least 163 former employees of Raybestos-Manhattan, Inc. Each worker is asking for $1-million in compensatory damages and $1-million in punitive damages. The defendants are alleged to have failed to provide adequate warning of the health hazards of their products. Charged with ignoring scientific data and medical evidence that should have prompted them to take more stringent safety measures are Asbestos Corporation Ltd., Asbestos Corporation of America, Bell Asbestos Mines Ltd., Cassiar Asbestos Corporation Ltd. and Johns-Manville Corporation. The suit also charges that the companies and Metropolitan Life Insurance Company (who advised the companies on employee-safety hazards) in effect "warranted that their asbestos products were safe and fit for use."



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# U.K. ASBESTOS INFORMATION COMMITTEE

## *PART 4: FILMS & CONFERENCES*

*Films*—In 1970 the U.K. Asbestos Information Committee produced *Why Asbestos?*, a color film illustrating the many uses for asbestos products. The film has been shown to a large number of audiences throughout Britain and in all almost 200 copies have been distributed throughout the world. French and German versions of the film were also produced. . . . Another more recent film *Fire At Work,* of which the AIC was a sponsor, deals with the fire protection role of asbestos. . . The AIC collaborated closely with the Asbestosis Research Council in the production of the recent ARC film *Asbestos At Work.* This was intended as an introduction to the basic principles of asbestos dust control and occupational hygiene as designated by the 1969 Asbestos Regulations. It was endorsed by H.M. Factory Inspectorate and has been shown widely throughout the United Kingdom through hiring arrangements and at meetings arranged at the main regional centers. In the latter case panels of experts were also organized to answer questions under the chairmanship of local Chief Factory Inspectors.

*Conferences*—The AIC has organized a number of conferences to promote a better understanding of the problems of asbestos and health. In June 1969 an important conference was arranged jointly for the British Occupational Hygiene Society and the Asbestosis Research Council. Again in January of this year a conference was organized jointly for the Society of Occupational Medicine and the ARC. The AIC has also arranged a number of industry briefing meetings throughout the country to assist asbestos users to comply with the current British Asbestos Regulations and to obtain a better appreciation of the health background. Since 1969 three conferences have also been held with other national information committees and associations to discuss matters of common interest.

**The Information Services of the AIC will be the subject of the next and final chapter of this series on the U.K. Asbestos Information Committee.**

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***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]



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# PLANTS AND MACHINERY FOR THE PRODUCTION OF ASBESTOS-CEMENT SHEETS



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# MARKET CONDITIONS

## GENERAL BUSINESS

Signs of an end of the recession and of an incipient upturn in general business are now becoming more pronounced. While some statistics such as the rate of unemployment and capital spending plans are still giving unfavorable readings, analysts are quick to point out that these are lagging or coincident indicators and are simply behaving as they normally do near the bottom of a recession. By contrast, the leading indicators have been signaling an upturn for some months and the signals have recently been getting stronger. . . . For example, the government's composite index of leading indicators has been moving up since February and registered a record 4.2% rise in April. This composite of 12 statistics has recently been revised in the interest of improved accuracy and its performance has been tested against actual economic conditions back as far as 1948. The results of such tests show the index would have successfully predicted every major recession and recovery since the war by lead times varying from one to six months. Based on this alone, there is a strong case for predicting an almost certain upturn in business in the reasonably near future.

At the moment the big question among economists and businessmen is not whether the start of a recovery is imminent but whether the upswing will be rapid or relatively slow. . . The chief argument for a rapid recovery seems to be that the downward path of the economy, particularly as regards liquidation of inventories, has been so steep that the economy has over-corrected and a sharp upturn is almost mandatory just to bring things back to an even keel. . . . On the opposite side we find that the automobile and housing industries, generally considered bellwethers of economic health, are still severely depressed. In the case of autos, the normal spring improvement was largely missing and many plants are about to close for annual model changeovers so no great spur to the economy can be expected from this source until late in the year. As to housing, permits for new home buildings have moved upward, availability of mortgage money is improving and the tax break offered to buyers of certain new homes seems to have spurred sales and substantially reduced the inventory of unsold houses. However, the high cost of housing continues to deter buyers and a sharp rise in activity in this industry is probably not in the cards for at least another quarter. For these reasons most analysts' forecasts are leaning toward a steady but prolonged pattern of recovery.


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. . . While there are numerous reasons to favor such a recovery over a "boom" type upswing, there is a danger that some politicians and pressure groups will not be satisfied unless prompt and sharp improvements can be shown in unemployment figures or some other pet statistics. Yielding to such desires could lead to more deficit spending and renewed inflationary pressures. However, recent experience indicates that Mr. Ford is well aware of the dangers of irresponsible spending and that he will not hesitate to veto bills which conflict with his basic game plan. Despite its overwhelming Democratic majority, Congress has been unable to muster the votes necessary to override Presidential vetoes of several politically popular measures. So long as this situation prevails a Congressional spending spree with its attendant threat of renewed inflation seems quite unlikely.

Further evidence of Congressional impotence is its failure to come up with an energy program which makes any real sense. Some day our leaders will recognize the impossibility of reducing our dependence on foreign oil without hurting some sector of the populace. Unfortunately that day will probably not come until the nation is faced with imminent, full-scale disaster. At that point all the legislation in the world will not save us from an extremely traumatic experience or complete economic and social collapse.

## ASBESTOS FIBER

To the end of May 1975 shipments of asbestos from Canada were substantially below the level of the like period in 1974. The principal reasons for the decrease include restricted production from the Jeffrey Mine of Canadian Johns-Manville Co. Ltd. and the continuing strike of all asbestos workers in the Thetford Mines area. . . . Most asbestos-consuming manufacturing industries in the U.S., Canada and elsewhere throughout the world are operating below capacity although there are indications of an upturn in selected product areas.

## 1975 CONSTRUCTION OUTLOOK

Construction is expected to lead the nation's economy out of its recession with a recovery in housing and public works this year, followed by a turnaround in nonresidential building late in 1975 or early in 1976, according to the latest update of the *1975 Dodge/Sweet's Construction Outlook*. The report forecasts $96-billion worth of construction contracts for 1975, 5% over 1974.

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**CANADA**

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# PRODUCTION—IMPORTS—EXPORTS

## AUSTRALIAN IMPORTS/EXPORTS/OUTPUT

During the period *July 1974-March 1975,* 38,116 metric tons of asbestos, valued at Australian $7,397,440, were *imported* into Australia, 4,660 tons less but $1.4-million more than in the like period a year earlier. The breakdown by variety of asbestos for the latest 9-month period is: Chrysotile, 23,643 tons, $4,672,638; Amosite, 7,609 tons, $1,601,660; Other, 6,864 tons, $1,123,142. . . . *Exports* for the 9-month period ended March 1975 totaled 11,892 tons, valued at $1,967,509—down 17,734 in tonnage and $527,491 in value. . . . *Production* from July 1974-March 1975 amounted to 11,664 tons with a value of $1,886,412. The output total for the prior like period was 32,901 tons. [Commonwealth Bureau of Census and Statistics, Canberra]

## CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 75,358 short tons in *April 1975.* . . . Cumulative total shipments for *January-April 1975* reached 394,009 tons: 299,717 tons from Quebec plants and 94,292 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first four months of 1974 was 575,819 tons (revised). [Statistics Canada, Ottawa]

## TAIWAN ASBESTOS PRODUCTION

Asbestos production (mostly Actinolite) in Taiwan for the *First Quarter of 1975* reached 389 metric tons against 957 tons for the initial three months of the previous year. [Ministry of Economic Affairs, Taipei]

## 1973 MINERALS YEARBOOK

The following preliminary production statistics for the year 1973, and comparable year-earlier figures, were taken from preprints from the U.S. Bureau of Mines' 1973 Minerals Yearbook:

| | *Metric Tons* | |
|---|---|---|
| *Country* | *1973* | *1972* |
| Cyprus | 29,000 | 29,780 |
| Egypt | 440 | 441 |
| Finland | 6,427 | 6,388 |
| Korea | 5,707 | 5,279 |
| Portugal | .. | 8 |
| Turkey | 4,718 | 4,924 |



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# IMPORTS INTO THE UNITED STATES

**FROM: U.S. BUREAU OF THE CENSUS**

| | | MARCH 1975 | |
|---|---|---|---|
| ***Unmanufactured Asbestos:*** | | | |
| Amosite, South Africa | s.tons | 136 | $ 146,320 |
| Crocidolite (Blue), South Africa | s.tons | 325 | 130,493 |
| Chrysotile, Crudes, Rhodesia | s.tons | 58 | 52,185 |
| Chrysotile, Spinning Fibers, Canada | s.tons | 550 | 276,462 |
| Chrysotile, Other, Canada | s.tons | 43,377 | 8,615,403 |
| Mexico | s.tons | 9 | 1,845 |
| Other Crudes & Fibers, Canada | s.tons | 820 | 158,114 |
| Italy | s.tons | 1 | 4,550 |
| Rhodesia | s.tons | 50 | 17,993 |
| | | 45,626 | $ 9,403,365 |
| ***Manufactured Asbestos Products:*** | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 1,380,010 | $ 1,248,858 |
| A-C pipes, tubes & fittings | Lb | 1,411,722 | 136,869 |
| Other a-c articles | Lb | 4,214,823 | 587,106 |
| Other asbestos articles | | .. | 396,952 |
| | | | $ 2,369,785 |
| | | **JANUARY-MARCH 1975** | |
| ***Unmanufactured Asbestos:*** | | | |
| Amosite, South Africa | s.tons | 1,041 | $ 324,643 |
| Crocidolite (Blue), South Africa | s.tons | 1,787 | 613,891 |
| Chrysotile, Crudes, Rhodesia | s.tons | 82 | 68,906 |
| South Africa | s.tons | 518 | 235,158 |
| Swaziland | s.tons | 1,543 | 470,751 |
| United Kingdom | s.tons | 277 | 82,982 |
| USSR | s.tons | 974 | 266,097 |
| Chrysotile, Spinning Fibers, Canada | s.tons | 2,742 | 1,522,191 |
| Rhodesia | s.tons | 20 | 19,110 |
| Chrysotile, Other, Canada | s.tons | 127,895 | 25,400,806 |
| Gaza Strip | s.tons | 152 | 25,914 |
| Mexico | s.tons | 22 | 4,478 |
| Other Crudes & Fibers, Canada | s.tons | 1,878 | 360,361 |
| Finland | s.tons | 88 | 7,235 |
| Italy | s.tons | 1 | 4,550 |
| Rhodesia | s.tons | 100 | 35,088 |
| South Africa | s.tons | 88 | 25,248 |
| | | 139,208 | $29,467,409 |
| ***Manufactured Asbestos Products:*** | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 2,636,812 | $ 3,009,974 |
| A-C pipes, tubes & fittings | Lb | 4,378,116 | 400,868 |
| Other a-c articles | Lb | 19,823,998 | 2,506,121 |
| Other asbestos articles | | .. | 1,301,267 |
| | | | $ 7,218,230 |



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# EXPORTS FROM THE UNITED STATES

**FROM: U.S. BUREAU OF THE CENSUS**

| ***Unmanufactured Asbestos:*** | | **MARCH 1975** | |
|---|---|---|---|
| Fibers not further processed than beaten, washed or graded to length | s.tons | 1,015 | $ 443,429 |
| Waste and refuse | s.tons | 2,365 | 314,258 |
| | | 3,380 | $ 757,687 |

| ***Manufactured Asbestos Products:*** | | | |
|---|---|---|---|
| A-C shingles & clapboard | Lb | 2,234,583 | $ 352,430 |
| Other a-c fiber-cement articles | Lb | 5,217,329 | 1,142,236 |
| Gaskets | Lb | 43,313 | 114,761 |
| Packing | Lb | 475,404 | 1,240,851 |
| Heat or sound insulation | | .. | 517,807 |
| Textiles & yarns | Lb | 488,299 | 505,040 |
| Protective clothing | | .. | 45,724 |
| Mfrs. other than friction materials | | .. | 856,087 |
| Cl. facings & linings for auto. use | No | 58,829 | 123,031 |
| Other clutch facings & linings | No | 121,525 | 80,861 |
| Brake linings for automotive use | Lb | 520,531 | 505,482 |
| Other brake linings | Lb | 132,386 | 222,368 |
| | | | $ 5,706,678 |

| ***Unmanufactured Asbestos:*** | | **JANUARY-MARCH 1975** | |
|---|---|---|---|
| Fibers not further processed than beaten, washed or graded to length | s.tons | 4,622 | $ 2,235,248 |
| Waste and refuse | s.tons | 3,526 | 613,393 |
| | | 8,148 | $ 2,848,641 |

| ***Manufactured Asbestos Products:*** | | | |
|---|---|---|---|
| A-C shingles & clapboard | Lb | 5,688,181 | $ 909,100 |
| Other a-c fiber-cement articles | Lb | 18,260,994 | 3,099,131 |
| Gaskets | Lb | 124,716 | 427,720 |
| Packing | Lb | 1,195,948 | 3,147,706 |
| Heat or sound insulation | | .. | 1,250,654 |
| Textiles & yarns | Lb | 2,247,189 | 1,644,737 |
| Protective clothing | | .. | 116,961 |
| Mfrs. other than friction materials | | .. | 2,359,398 |
| Cl. facings & linings for auto. use | No | 307,034 | 532,432 |
| Other clutch facings & linings | No | 324,008 | 145,971 |
| Brake linings for automotive use | Lb | 1,770,131 | 1,583,721 |
| Other brake linings | Lb | 524,817 | 726,154 |
| | | | $15,943,685 |



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## EXPORTS FROM CANADA

**FROM: STATISTICS CANADA**

**MARCH 1975**

Short Tons

| *Unmanufactured Asbestos:* | *Crude* | *Milled Gp 3* | *Milled Gp 4&5* | *Shorts Gp 6-9* |
|---|---|---|---|---|
| Western Europe | .. | 457 | 13,899 | 14,800 |
| Eastern Europe | .. | .. | 1,541 | .. |
| Middle East | .. | .. | 528 | 299 |
| Africa | .. | .. | .. | 108 |
| Asia | 42 | 32 | 4,638 | 8,782 |
| Oceania | .. | .. | 1,650 | 72 |
| So. & Cen. America & Antilles | .. | 641 | 8,878 | 4,061 |
| United States | .. | 519 | 17,968 | 25,915 |
| | 42 | 1,649 | 49,102 | 54,037 |

The total amount of unmanufactured asbestos exported in *March 1975* was 104,830 short tons, valued at $25,428,000.

***Manufactured Asbestos Products:***

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 461,000 |
| Asbestos brake linings & facings | 206,000 |
| Asbestos-Cement building materials | 394,000 |
| Other basic asbestos products | 245,000 |
| | $ 1,306,000 |

**JANUARY-MARCH 1975**

| *Unmanufactured Asbestos:* | *Crude* | *Milled Gp 3* | *Milled Gp 4&5* | *Shorts Gp 6-9* |
|---|---|---|---|---|
| Western Europe | .. | 3,866 | 61,841 | 45,030 |
| Eastern Europe | .. | 220 | 4,806 | 829 |
| Middle East | .. | .. | 4,870 | 1,112 |
| Africa | .. | .. | 4,330 | 279 |
| Asia | 43 | 489 | 16,863 | 28,832 |
| Oceania | .. | .. | 7,838 | 955 |
| So. & Cen. America & Antilles | .. | 1,133 | 23,445 | 13,789 |
| United States | 1 | 2,241 | 50,821 | 80,962 |
| | 44 | 7,949 | 174,814 | 171,788 |

The total amount of unmanufactured asbestos exported in *January-March 1975* was 354,595 short tons, valued at $85,444,000.

***Manufactured Asbestos Products:***

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 910,000 |
| Asbestos brake linings & facings | 774,000 |
| Asbestos-Cement building materials | 1,083,000 |
| Other basic asbestos products | 844,000 |
| | $ 3,611,000 |



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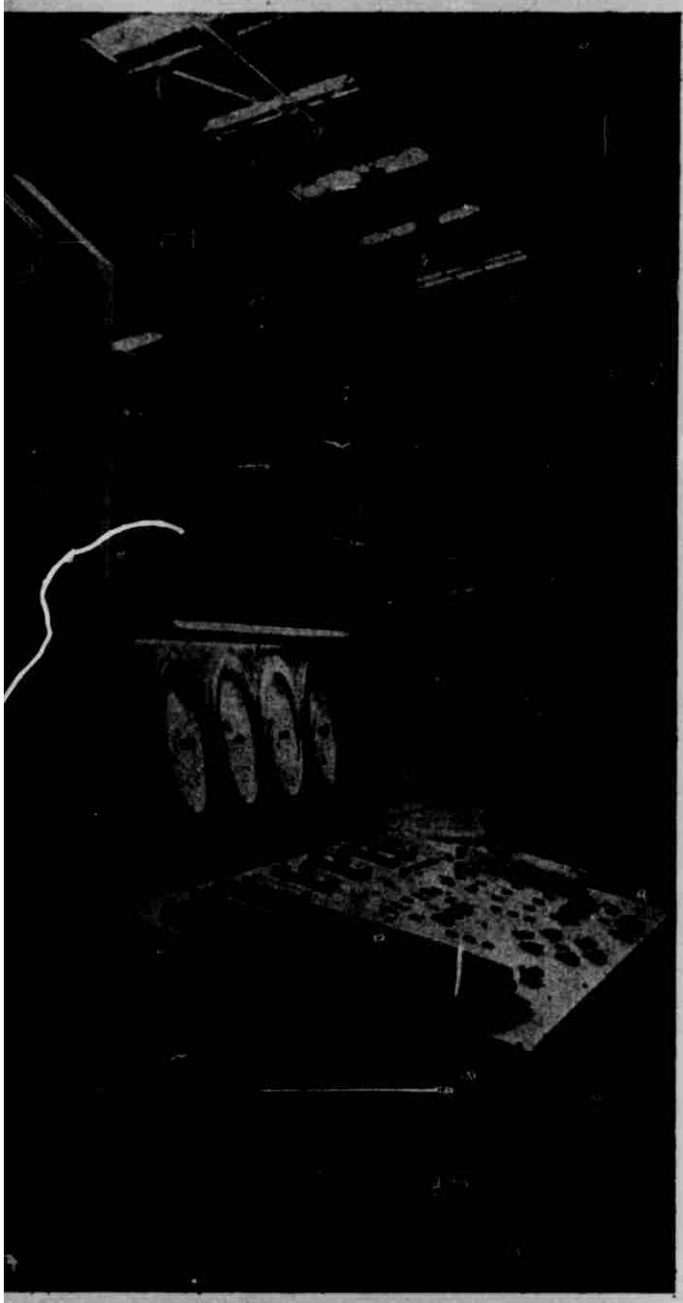
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# LATEST ASBESTOS PRICES

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

| [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 Currency |
|---|---|
| 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 January 1, 1975] | Canadian Currency |
|---|---|
| **Cassiar Mine** | |
| C-1 | —$2700.00 |
| AAA Grade—Nonferrous Spinning Fiber/Canadian Gp 3 | 1560.00 |
| AA Grade—Nonferrous Spinning Fiber/Canadian Gp 3 | 1240.00 |
| A Grade—Nonferrous Spinning Fiber/Canadian Gp 3 | 945.00 |
| AC Grade—Nonferrous Spinning Fiber/Canadian Gp 3 | 680.00 |
| AK Grade—Asbestos-Cement Fiber/Canadian Group 4 | 485.00 |
| AS Grade—Asbestos-Cement Fiber/Canadian Group 4 | 420.00 |
| AX Grade—Asbestos-Cement Fiber/Canadian Group 5 | 385.00 |
| AY Grade—Asbestos-Cement Fiber/Canadian Group 5 | 270.00 |
| AZ Grade—Asbestos-Cement Fiber/Canadian Group 6 | 200.00 |
| **Clinton Mine** | |
| CP Grade—Asbestos-Cement Fiber/Canadian Group 4 | 456.00 |
| CT Grade—Asbestos-Cement Fiber/Canadian Group 4 | 412.00 |
| CY Grade—Asbestos-Cement Fiber/Canadian Group 5 | 270.00 |
| CZ Grade—Asbestos-Cement Fiber/Canadian Group 6 | 200.00 |

**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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Well Open Medium Open Crudy

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## NO SIGNS OF A SETTLEMENT

No real progress has been reported toward settling the strike by asbestos miners at Thetford Mines, Quebec. Asbestos production in the Province at mid-May was estimated to have been down by 20% as a result of natural disasters (the fire at the King-Beaver Mill and the landslide at the Jeffrey Mine), with an added 10% loss because of the strike. Since Quebec accounts for 80% of Canada's output of asbestos it appears probable that Canada will lose its title to the USSR as the world's leading asbestos producer. In 1974 the Soviet Union accounted for 31% of total world output. Canada produced 43%. Also, a new mill is to begin operating this year in the southern Urals, with eventual production of over 500,000 short tons per year.

## BRAZILIAN ASBESTOS ACTIVITIES

The only known Chrysotile asbestos operation in Brazil is the open-pit Cana Brava Mine, Uruacu County, Goias State, owned by Sociedade Anonima Mineracao de Amianto (SAMA). Production in 1974 was reported as 60,344 tons and research is being done to increase annual capacity to 110,000 tons of fiber by 1976. Reserves are calculated at 3-million tons. . . . Brazil also has small Anthophyllite mines in the Alagoas State. Production was 1,444 tons in 1971, 552 tons in 1972 and 440 tons in 1973. Reserves were estimated at 2.8-million, tons, averaging 3% fiber. . . . Another item worthy of mention is that Companhia Brasileira de Amianto is doing some asbestos prospecting and evaluating work in Brazil. [The data on Chrysotile and Anthophyllite were received from the Departamento Nacional da Producao Mineral, Brazil]

## INDIAN PRODUCER SEEKS AID

Andhra Pradesh Mining Corporation has sought the assistance of the United Nations Development Program to achieve optimum fiber recovery and improve the processing of asbestos at Pulivendia, Cuddapah District. According to Managing Director M. L. Malakondayya, production of Chrysotile asbestos, one of the company's main products, registered a 101% increase over that of the previous fiscal year. ["Hindu," Madras]

## MINES BUREAU GRANTS & CONTRACTS

The U.S. Bureau of Mines is awarding a series of contracts and grants to provide detailed assessments of key mineral deposits throughout the world that represent actual and potential sources of important minerals for the United States. Focusing on deposits of "critical" minerals, the work will be aimed at developing data that can be fed into the Bureau's Mineral Availability System—a computerized program for collating and analyzing data related to worldwide mineral supply and demand. One of the grants, worth $22,875, was awarded to the Arizona Department of Mineral Resources to report on asbestos and fluospar in that State. Other grants are scheduled later, with a computerized total due in 1980.



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# ANNUAL REPORTS, 1974

## BBA GROUP LTD.

Group sales for BBA Group Ltd., at £66,584,135, were 23.1% higher than in 1973 although the net balance from trading rose by only 4.7%. Group profit before taxation fell 15% due to higher depreciation charges and bank and loan interest. Overseas companies provided 53% of the sales and 62% of the pre-tax profit. Direct exports from the United Kingdom reached a record £8.1-million and together with sales by overseas companies accounted for 65% of overall Group sales. Profit after taxation was £1.9-million, £478,000 decrease from the previous year.

*The friction and anti-friction materials* business showed a modest increase in sales, producing only half the proft earned in 1973. It was not possible to recover fully the staggering, rising costs of raw materials and wages. Mintex Ltd., in the U.K., achieved higher sales in the replacement field but towards the end of 1974 demand was weak for original equipment. Textar GmbH received the contract for and saw the completion and commissioning of the friction materials plant in the USSR. This facility supplies equipment for Fiat cars made in Russia. Also, work continued on the preparation of the larger factory in Poland. Mintex S.A., France, changed its name to BBA Automotive France S.A., reflecting its position as a distributor of Mintex, Textar and Railko products. Mintex Federal Ltd., Canada, reached a satisfactory production level during the year at its new disc brake pad plant. Cantex Corporation, in the United States, continued to progress. Bendix Mintex Pty. Ltd., BBA's associated company in Australia increased its contribution to Group profit. In South Africa BBA increased its shareholding in Frima Holdings Ltd. from 44% to 51%. The Group thus now controls Mintex Frima (S.A) (Pty.) Ltd.

*Industrial products* and other activities experienced an overall sales increase of about 50% and a profit of nearly double, achieved primarily via remarkable results in the field of belting and industrial textiles. Scandura Ltd., in the U.K., increased turnover in all major sections of its business including belting, asbestos and glass textiles. In the U.S. the drive to sell belting in the general industrial market continued to be productive and at the same time there was a boom in demand for belting for mining applications. The result was an outstandingly profitable year for Scandura Inc. Scandura Gold Line belting imported from the U.K. was the major industrial product that contributed to higher profits for Mintex Federal which traded under the name of Scandura Canada. The merger of Sovex Ltd. and Marshall Handling Equipment Ltd. was implemented during 1974. The new company, Sovex Marshall Ltd., came into full operation January 1, 1975.



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# ASBESTOS CORPORATION LIMITED

ASBESTOS

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Central Solvents & Chemicals Co.
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936 Raymond Ave.

**SALT LAKE CITY, UTAH 84110**
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407 West 17th South St.

**SANTA FE SPRINGS, CAL. 90670**
Central Solvents & Chemicals Co.
13900 Carmenita Road

**SPOKANE, WASH. 99206**
Central Solvents & Chemicals Co.
6308 East Sharp Avenue



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## CERTAIN-TEED PRODUCTS CORPORATION

Net sales for Certain-teed Products Corporation have grown steadily over the last five years, increasing from $254-million in 1970 to $476-million in 1973 and to $559-million in 1974. However, the company realized a net loss in 1974 of $7.4-million or 70c per common share. Net income in 1973 was $25-million or $2.20 per share. Valley Forge Corporation, a 71%-owned unconsolidated subsidiary engaged in diversified real estate activities, sustained substantial operating losses which eliminated Certain-teed's equity investment in VFC. The effect on Certain-teed's 1974 net loss from its equity in VFC's losses through May 1974 and certain related write-offs and reserves and other items is $15-million or $1.26 per share.

In a year of dramatic corporate change, management's mission has been defined succinctly by three important objectives: maintain profitable growth in basic operations, strengthen the firm's financial condition and concentrate corporate resources by eliminating commitments unrelated to primary businesses. Realtec Inc. remains the only material investment unrelated to the company's basic business —the manufacture and distribution of construction products. New bank lines and term loans were negotiated, a commitment was obtained from three long-term lenders to permit the borrowing of $85-million and $23.4-million of equity was sold to a shareholder.

Sales by Certain-teed's operating groups increased 17% while income equaled the record set in 1973, even after the LIFO adjustment. A new roofing and felt mill and an automotive insulation facility were opened in 1974. Remodeling continued to be a strong and growing market and contributed to 29% of the company's sales. Excellent growth and a 50% increase in profits were reported for the *Pipe & Plastics Group*, one of the largest domestic producers of PVC pipe and the second largest producer of asbestos-cement pipe. Net sales in 1974 were $102.8-million against $86.4-million in 1973. Operating profit increased from $8.8-million to $12.4-million. Asbestos-cement pipe was in good demand and 1975 may equal 1974's record sales volume and profit performance.

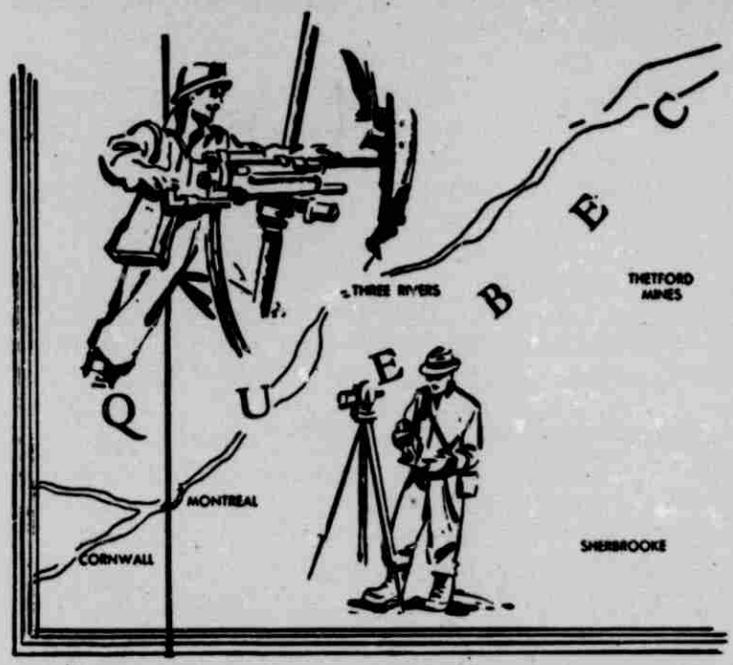
## JOHNS-MANVILLE CORPORATION

In general, 1974 was a successful year for Johns-Manville Corporation particularly when viewed against the backdrop of diverse and confusing economic circumstances. Annual sales for the first time surpassed the one-billion-dollar mark, amounting to $1.106-billion compared with $905-million in 1973. Income from operations improved 22% to $108.6-million. As a result of the sale of timberlands in Virginia, an extraordinary gain of $21.3-million raised net earnings to a record $71.9-million ($55.8-million in 1973). . . . Acquisitions included the assets of United Filigree, a maker of precast concrete panels for floors, roofs and walls, and a controlling interest in Key Transportation, Inc., operator of Sun Valley Key Air-




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lines and other aviation-related businesses. J-M sold its high-pressure, plastic-laminates operation at Lawrence, Massachusetts, closed the perlite filter aid plant at Rockdale, Illinois, and will divest the gypsum plant at South Gate, California.

J-M's major businesses are thermal insulations, pipe products and systems, general building and roofing materials, industrial and other products, and mining and minerals. The company is the leading U.S. producer of asbestos-cement and PVC plastic pipe, one of the world's foremost suppliers of asbestos fiber and the second largest U.S. producer of glass fiber products.

J-M has one of the broadest product lines in the U.S. to meet *thermal insulation* needs. A new development in 1974 was Fesco-Foam roof insulation, which is a composite of Fesco roof insulation, a core of polyurethane foam and a top surface of asphalt-saturated felt. Thermal insulation products accounted for 27% of total sales.

Sales from *industrial and other products* accounted for 11% of total company sales. Sealing components such as packings and oil seals found continued high usage in the process equipment and durable goods industries. Cobra brake shoes benefited from an upswing in rail shipments and in rail car construction. Electrical insulation materials continued to show steady growth.

The *pipe products and systems* business contributed 21% of total company sales. Sales volume and production levels in the U.S. and Canada for Transite a/c pipe and PVC plastic pipe were the highest in company history. The top-performing product line was clearly a/c pipe and J-M virtually sold out its capacity in 1974. Demand from the public works sector for water and sewer pipe remained solid despite economic downturns in other areas. A new plant is under construction at Fresno, California, to produce sprinkler valves and other hardware for J-M's total irrigation systems package.

Sales from J-M's extensive operations that *mine and process* asbestos, diatomite, perlite and talc accounted for 10% of total company sales. The impetus for 1974 sales and earnings came from the continuing heavy worldwide demand for asbestos, substantial price increases and the comparatively stable performance of all J-M mineral areas. From its Jeffrey Mine in Quebec, J-M shipped about 650,000 tons of fiber to industries around the world. Demand continued to out-distance production capacity and for the second straight year all production was sold. In an effort to supply as much of this active market as possible, asbestos ore concentrated at the recently-opened Bolduc Mine, near Val d'or, Quebec, is being shipped to Jeffrey for milling. Overburden landslides which occurred on January 21, 1975, at Jeffrey curtailed production and are expected to have an adverse impact on total asbestos fiber operations in 1975. The asbestos mine at Coalinga, California, was closed in June 1974 as the type of fiber mined at that facility was being sold to low-profit markets. . . . Plans to expand its talc mining operations, now centered at Death Valley, California, were set in motion with the approval of funds to mine a new deposit at Penhorwood Township, Ontario. A milling facility will be added near Timmins to complement the new mine.




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# ASBESTOS STOCK QUOTATIONS

**Close—June 17, 1975**

| | | | |
|---|---|---|---|
| Abitibi Asbestos | *$1.16 | G&W (pfd 5.75) | 66⅜ |
| Advocate Mines | *$1.60 | IC Industries | 13⅞ |
| Armstrong Cork | 24¾ | IC Ind (pfd A-6) | 68 |
| Armst. Cork (pfd 3.75) | 46½ | IC Ind (pfd 3.50) | 34⅞ |
| Asarco | 18 | Jim Walter Corporation | 38¾ |
| Asbestos Corporation | *$16.75 | Jim Walter (pfd 1.60) | 42¼ |
| Bendix | 37 | Johns-Manville | 21⅜ |
| Bendix (pfd 3) | 55¾ | Kennecott Copper | 37⅜ |
| Carlisle | 12⅜ | Maremont | 13⅝ |
| Cassiar Asbestos | *$5.00 | McAdam Mining | *40c |
| Cerro Corporation | 16¼ | National Gypsum | 12⅜ |
| Certain-teed Products | 10½ | Pathfinder | *17c |
| Charter Consolidated | **176 | Porter (pfd 5.50) | 65 |
| Conwest | *$3.00 | Raybestos-Manhattan | 24 |
| Flintkote | 18¼ | Rio Algom | *$27.875 |
| F-kote (pfd-A 4.50) | 54¾ | Royal Industries | 5⅞ |
| F-kote (pfd-B 2.25) | 26½ | Supradur (O.T.C.; Bid) | 4⅝ |
| GAF Corporation | 10⅝ | Union Carbide | 58½ |
| GAF (pfd 1.20) | 16¼ | Uniroyal | 7⅞ |
| Garlock | 17⅝ | Uniroyal (pfd 8) | 78 |
| Gulf & Western | 36¼ | United Asbestos Inc. | 4-11/16 |
| G&W (when traded) | 5¼ | Woodsreef Mines | *7.4c |
| G&W (pfd 3.87) | 62¾ | | |

* CANADIAN CURRENCY
**LONDON—IN PENCE SOURCES: THE WALL STREET JOURNAL & THE NORTHERN MINER

## MEDICAL PAPERS

**THE FOLLOWING PAPERS APPEARED IN RECENT ISSUES OF VARIOUS JOURNALS. PHOTO-COPIES OF MOST ARE AVAILABLE FROM THIS MAGAZINE AT 20c PER PAGE.**

*Background Documentation on Evaluation of Occupational Exposure to Airborne Asbestos,* by the Joint ACGIH-AIHA Aerosol Hazards Evaluation Committee; 13 pages.

*Calibration Standards for Counting Asbestos,* by L. W. Ortiz, H. J. Ettinger & C. I. Fairchild, University of California; 9 pages.

*Overlap Problems in Counting Fibers,* by G. Knight, Ontario Department of Energy, Mines and Resources; 2 pages.

*Asbestos Control in Steam-Electric Generating Plants,* by J. H. Fontaine & D. M. Trayer, Tennessee Valley Authority; 5 pages.

*Cement, Asbestos and Cement-Asbestos Pneumoconioses,* a comparative clinical-roentgenographic study by G. Scansetti, G. C. Coscia, W. Pisani & G. F. Rubino, University of Turin, 4 pages.

*Identification of Foreign Material in Lung by Energy Dispersive X-Ray Analysis,* a new approach to silicosis by A. Funahaski, K. Pintar & K. A. Siegesmund, Wood Veterans Administration Center and Medical College of Wisconsin, 5 pages.



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# MEN ON THE MOVE

## ASARCO INCORPORATED

*John J. Collins* was elected Vice President-Exploration by the Board of Directors, it was announced by *Charles F. Barber,* Chairman. Mr. Collins joined the company in 1951 and had been Director of Exploration since 1971. . . . *S. Norman Kesten* was appointed Assistant to the Vice President-Environmental Affairs. He joined the firm in 1951 as an exploration geologist and in his new position will report to *Kenneth W. Nelson,* Vice President-Environmental Affairs.

## BRINCO LTD.

*Sir Val Duncan,* a Director, was elected Chairman of Brinco, succeeding *Robert D. Mulholland* who has retired. Sir Val is Chairman and Chief Executive of Rio Tinto-Zinc Corporation, London, and Chairman of Rio Algom Ltd. (formerly Rio Algom Mines Ltd.), Toronto. Rio Tinto-Zinc holds a controlling interest in both Brinco and Algom.

## CANADIAN JOHNS-MANVILLE CO. LTD.

*J. R. M. Hutcheson,* Chairman of the Board, announced the appointment of *A. R. Dennis,* Controller for the Asbestos Fibre Division, as Vice-President of C.J-M. Mr. Dennis has been with the Canadian mining company since 1952.

## STANDCO INDUSTRIES INC.

*Warren Warner* was elected Vice President of Manufacturing, responsible for overall supervision of Standco's production operations. Other promotions include *Askaran Bhagat* to Manager of Manufacturing Engineering and *Huie P. White* as Assistant General Manager of K & W, Inc., maker of API ring gaskets. Standco is a manufacturer of products for the energy industry, based in Houston, Texas.

## KILBORN ENGINEERING (B.C.) LTD.

Recent appointments include *J. B. Mitchell* as Managing Director and *R. C. Getty* as General Manager and a Director. Mr. Mitchell is a Vice-President of the parent company, Kilborn Engineering Ltd., Toronto.

## VAN HORN, METZ & CO., INC.

*Douglas H. Everett,* President, announced the appointments of *James Willis* as Vice President and *H. Morgan Smith* as Sales Manager. Van Horn, Metz is based in Conshohocken, Pennsylvania, with regional offices in Baltimore, Maryland, and Pittsburgh, Pennsylvania. It is now in its 25th year of service to the coatings and chemical industries in the Mid-Atlantic States.

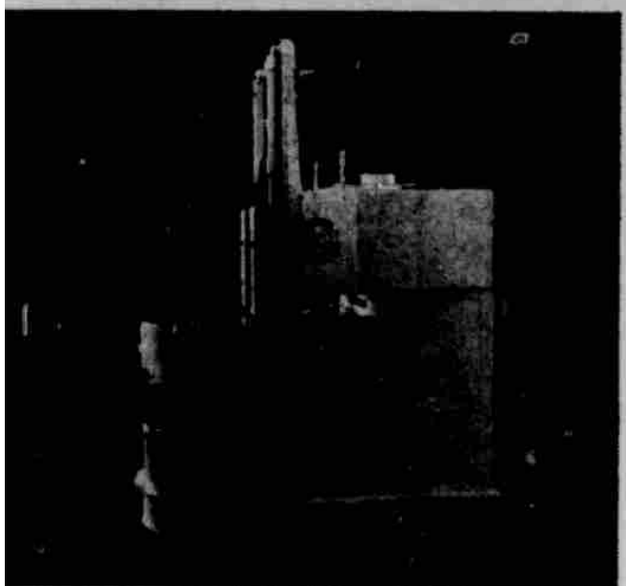


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## SIR RALPH BATEMAN, KBE

Sir Ralph Bateman, Chairman of Turner & Newall Ltd. and President of the Confederation of British Industry, was created a Knight Commander of the Most Excellent Order of the British Empire in the Queen's Birthday Honours list published June 14, 1975. He joined the T&N Group in 1931 and from 1942 onwards has held Directorships in many T&N subsidiary and associated companies. He was appointed to the Board of T&N Ltd. in 1957 and was named Deputy Chairman in 1959 and Chairman in 1967. He also serves as a Director of Certain-teen Products Corporation and of Cassiar Asbestos Corporation Ltd. . . . Sir Ralph is a Master of Arts of the University of Oxford and a Doctor of Science (honoris causa) of the University of Salford where he is a member of the University Court. He is a Fellow of the Chartered Institute of Secretaries, the British Institute of Management and the Royal Society of Arts. He is a member of the National Economic Development Council, the Council of Manchester Business School, the Court of the University of Manchester and is Chairman of the Governors of Ashridge College of Management and a Governor of the National Institute of Economic and Social Research.

## DR. T. WATANABE—DECEASED

We were saddened to learn of the passing on May 26, 1975, of Dr. Tsunemasa Watanabe, President of Nippon Asbestos Co. Ltd., Tokyo, Japan. . . . Following graduation from the Tokyo Institute of Technology, Dr. Watanabe joined Nippon Asbestos in 1927, was named to head its Central Laboratory in 1956 and became President in 1963. In 1968 he was appointed President of Taiwan Nippon Asbestos Co. Ltd. Throughout his impressive business career he was engaged in the study of heat insulating materials, a work that led to the establishment of heat and cold insulation technology as it is now known in Japan. As a result of his many contributions, Dr. Watanabe was awarded a Doctor of Engineering degree in 1955 by Tohoku University, the Medal of Honour with Blue Ribbon in 1961 and the 3rd class Order of the Sacred Treasure in 1974. His most recent award was the Senior 5th Order of the Court Rank, presented in May, 1975. The productive efforts of Dr. Watanabe resulted in improved heat insulation products, the modernization of the asbestos industry in Japan and the development of ceramic fiber and of a still-widely-used method to produce calcium silicate insulation. Because of an awareness of the likelihood of a future shortage of asbestos, he studied the use of "K-Fiber" as a substitute material. . . . Association appointments over the years included Directorships of the Japan Asbestos Products Industrial Association, the Thermal Insulation Association of Japan, the Japan Asbestos Industry Association, the Federation of Economic Organization (KEIDANREN) and the Acoustical Materials Association of Japan. He also had been a Standing Director of the Japan Heat Management Association, a Standing Committee Member of the Tokyo Chamber of Commerce and Industry and Chairman of the Japanese Fluorocarbon Industry Association.



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## BIRTHDAY GREETINGS to . . .

*M. S. Moser,* President, Durabla Manufacturing Company, Wayne, Pennsylvania, August 15.

*Derek Bartlett,* Director, Hedman Mines Ltd., Toronto, Ontario, August 16.

*Harry H. Robinson,* Chairman & Managing Director, Woodsreef Mines Ltd., Barraba, N.S.W., Australia, August 16.

*John F. Sullivan,* Vice President-Construction, A & M Insulation Company, Chicago, Illinois, August 17.

*Michael A. Tappin,* Director of Labor Relations, Johns-Manville Corporation, Denver, Colorado, August 17.

*Joan Holtze,* Corporate Secretary, North American Asbestos Corporation, Chicago, Illinois, August 18.

*Daniel L. Juhl,* General Manager, RM Friction Materials Company, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, August 18.

*Albert H. Fay,* Vice President-Research & Marketing, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, August 19.

*James H. Plummer, Jr.,* Vice President, Pars Manufacturing Company, Ambler, Pennsylvania, August 20.

*Anthony R. Patterson,* President, RM Roll Products Company, Raybestos-Manhattan, Inc., Scranton, Pennsylvania, August 25.

*Dale J. Delmege,* Director-PSI Group, Raybestos Manhattan Industrial Products Company, Raybestos-Manhattan, Inc., North Charleston, South Carolina, August 26.

*Marc A. Gosselin,* Director of Public Relations, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, August 26.

*T. A. Snedden,* Vice President-Mining, ASARCO Incorporated, New York City, August 27.

*Frank K. McGuire,* Controller, United Asbestos Inc., Montreal, Quebec, August 30.

*James J. Spangenberg,* Vice President & Treasurer, Johns-Manville Corporation, Denver, Colorado, August 31.

*Harold McNabb,* President, Building Materials Distribution Group, & Corporate Vice President, Certain-teed Products Corporation, Valley Forge, Pennsylvania, September 1.

*Michael J. Scanlan,* Vice President & Treasurer, Amatex Corporation, Norristown, Pennsylvania, September 1.

*Alexander J. Gillespie, Jr.,* Vice President, General Counsel & Corporate Secretary, ASARCO Incorporated, New York City, September 2.

*R. B. Gresham,* Manager, Jeffrey Mine, & Vice President, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, September 2.

*W. Melrose,* Vice President, General Contract Manager & a Director, Canadian Asbestos Company, Montreal, Quebec, September 4.

*C. Warner Johansson,* Works Manager, Wunderlich Ltd., Gaythorne, Queensland, Australia, September 5.

*J. L. Fenton,* Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 7.

*J. L. (Jerry) Mitchell,* Textile Consultant, Charlotte, North Carolina, September 7.



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**BIRTHDAYS—CONTINUED**

*William T. Teague,* Sales Representative, Carey-Canadian Mines, Ltd., Atlanta, Georgia, September 8.

*A. H. Teare,* Managing Director, Irish Asbestos Companies, Turner & Newall Ltd., Dublin, Ireland, September 8.

*Robert H. Cuje,* Senior Vice President-Corporate Marketing, Johns-Manville Corporation, Denver, Colorado, September 9.

*Frank H. Zimmerman,* Corporate Director-Safety & Environmental Health, National Gypsum Company, Buffalo, New York, September 9.

*R. W. Little,* Assistant Manager of Engineering, Asbestos Corporation Ltd., Thetford Mines, Quebec, September 10.

*G. Earl Parker,* Vice President-Legal Services & Corporate Counsel, Johns-Manville Corporation, Denver, Colorado, September 12.

*W. B. Coetzer,* Director, Msauli Asbes Ltd., Johannesburg, Republic of South Africa, September 13.

*Fred L. Pundsack,* Senior Vice President-Research & Development, Johns-Manville Corporation, Denver, Colorado, September 14.

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***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"; paperbound]


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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 1,377,981*—to deaden sound caused by vibrations in housings for vehicle bodies, trucks cabs, and the like, the housing is covered with one or more sheets composed of about equal proportions of asbestos and a suitable bitumen with the asbestos forming a plurality of discrete laminae lying parallel to the plane of the sheet; H. W. Kingsbury; assigned to British Uralite Ltd., December 18, 1974; 5 pages.

*British 1,381,289*—foamed magnesia cement of improved compressive strength is fabricated from an aqueous, gas-entrained mixture of magnesium oxide, magnesium chloride, a surface active agent, a water-soluble silicone and 4-7% by weight of Grades 4-7 Chrysotile asbestos; J. L. Edwards & S. A. A. Painter; assigned to BP Chemicals International Ltd., January 22, 1975; 3 pages.

*British 1,381,290*—foamed magnesia cement having reduced water absorption properties is formed from an aqueous mixture of magnesium oxide, magnesium chloride, a film-forming polymer latex such as an internally-plasticized-vinyl-chloride polymer and Chrysotile asbestos in Grades 4-7 on the Quebec Standard Grading System; C. A. Brighton & S. A. A. Painter; assigned to BP Chemicals International Ltd., January 22, 1975; 3 pages.

*U.S. 3,862,353*—electrical wire or cable is enclosed in asbestos fibers, the fibers surrounded by a braid of glass fibers and a polyester, the braid fused to the asbestos, the surface of the braid covered with a thermoplastic film and the braid fused to the thermoplastic film; C. G. Morton; assigned to General Electric Company, January 21, 1975; 5 pages.

*U.S. 3,863,758*—glossy, scratch-free surfaces are formed on articles made from a mixture of pulverulent polypropylene and fibers of asbestos, glass, graphite or carbon encapsulated between two films of polypropylene; the edges of the "sandwiched" material are heat sealed; F. J. Connelly; assigned to Hercules, Inc., February 4, 1975; 5 pages.

*U.S. 3,864,157*—a structure for lining liquid storage ponds or the like to render them impervious to the passage of liquid comprises a non-woven polyolefin fabric fused on only the external side to be placed against the surface to be covered, while the unfused side is coated with a mixture of asbestos and a cutback asphalt; C. R. Bresson & F. D. Spaulding; assigned to Phillips Petroleum Company, February 4, 1975; 5 pages.




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*U.S. 3,864,303*—high-quality friction members for brake linings or clutch facings are fabricated from a mixture of preferably about 49 parts by weight of asbestos, 19 parts of cashew modified pheonolic resins, 10 parts each of acrylamide and cashew resin, 8 parts of a barium salt and 4 parts of powdered lead or chromium trioxide; K. Saiki, K. Nomaguchi, K. Yoshizue & T. Nogawa, assigned to Sankyo Chemical Industries Ltd. & Tokyo Bahin Kogyo Co. Ltd., February 4, 1975; 3 pages.

*U.S. 3,868,316*—method of manufacturing a synthetic Chrysotile asbestos powder for use as a catalyst in the cracking of petroleum hydrocarbon fractions boiling above the gasoline range; a mixture of a silica sol, sodium hydroxide and aluminum chloride hexahydrate or magnesium chloride hexahydrate is reacted, the solids heated, the precipitate dewatered and ground, the ground material pressed into compacts and the compacts crushed and calcined; H. E. Robson; assigned to Exxon Research & Engineering Company, February 25, 1975; 21 pages.

*U.S. 3,870,426*—to protect underlying Portland cement concrete base courses from corrosive solutions arising from melting snow and sodium chloride or calcium chloride de-icing salts, a thin membrane component consisting of asbestos fiber, asphalt and fine aggregate is installed between the base course and an overlying asphalt-concrete wearing course; J. H. Kietzman & M. P. Tocci, assigned to Johns-Manville Corporation, March 11, 1975; 9 pages.

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# CALENDAR OF EVENTS

*PHYSICS & CHEMISTRY OF ASBESTOS MINERALS*—3rd International Conference; Laval University, Quebec City, *August 17-21.*

*TRANSMISSION ELECTRON MICROSCOPY*—Seminar; McCrone Research Institute, Chicago, Illinois, *August 18.*

*GEOCHEMISTRY*—International Symposium; Canada Centre for Inland Waters, Burlington, Ontario, *August 18-20.*

*ROCK MECHANICS*—10th Canadian Symposium; Queen's University, Kingston, Ontario, *September 2-4.*

*INFORMATION SYSTEMS FOR MANAGEMENT (INFO 75)*—Exposition and Conference produced by Clapp & Poliak, Inc.; New York Coliseum and Americana Hotel, New York City, *September 8-11.*

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

*SOCIETY OF MINING ENGINEERS*—Annual Fall Meeting and Exhibit; Salt Palace, Salt Lake City, Utah, *September 10-12.*

*NATIONAL MINE RESCUE & FIRST AID CONTEST*—Held by the U.S. Mining Enforcement and Safety Administration; Kentucky Fair and Exposition Center, Louisville, Kentucky, *September 11-12.*

*ENVIRONMENTAL SENSING, ASSESSMENT & MONITORING*—Joint International Conference of World Health Organization, U.S. Environmental Protection Agency, University of Nevada and others; Stardust and Frontier Hotels, Las Vegas, Nevada, *September 14-19.*

*METRIC WRITERS SEMINAR*—Sponsored by the American National Metric Council for writers of SI documents; Los Angeles/Ramada Inn, Culver City, California, *September 15.*

*FIRST EUROPEAN PLANT ENGINEERING & MAINTENANCE EXHIBITION/CONFERENCE*—Produced by Clapp & Poliak, Inc.; Earls Court, London, England, *September 15-19.*

*FIBRE/MATRIX INTERACTIONS: THE PHYSICS OF REINFORCEMENT*—Sponsored by the Institute of Physics; University of Sussex, Brighton, England, *September 16-18.*

*FILTRATION, SEPARATION & CLARIFICATION EQUIPMENT (FILTECH 75)*— International Exhibition; Olympia, London, England, *September 16-19.*

*FLUID SEALING ASSOCIATION*—Annual Fall Meeting; Chateau Montebello, Quebec, *September 17-19.*



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Plants for the manufacture of fitments and cisterns by the injection method, and for the injection of couplings on green pipes.

Plants for the manufacture of square, rectangular and circular pipes.

Plants for sheet painting.

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## REMEMBER WHEN?

### (June 1925 ASBESTOS)

Johns-Manville, Inc., implemented what was believed to be the first plan whereby payment for asbestos re-roofing jobs could be made in installments rather than in a lump sum. Handled by a large commercial credit company, the plan involved a down payment of 20% of the total cost upon completion of the job with the balance payable in ten equal installments carrying interest charges of 9% per annum.

The London press reported the amalgamation of Turner Brothers Asbestos Company and Ferodo Ltd., the well-known manufacturer of brake linings.

### (July 1925 ASBESTOS)

New Advertiser: Johns-Manville Incorporated

An article described the largest built-up asbestos roofing job which had been done in the United States up to that time. The building was owned and occupied by the W. F. Hall Printing Company, of Chicago, and 4500 squares of built-up roofing were required to complete the roof.

ASBESTOS published a list of wage rates for insulation applicators in some 50 U.S. cities. Typical hourly rates were: Boston, $1.10; Chicago, $1.375; New York, $1.315; Philadelphia, $1.05; San Francisco, $.875.

An exceptionally complete list of the Uses of Asbestos and Asbestos Products was included in this issue. Covering 4½ pages, it served as the basis for the list published later in the first Asbestos Factbook.

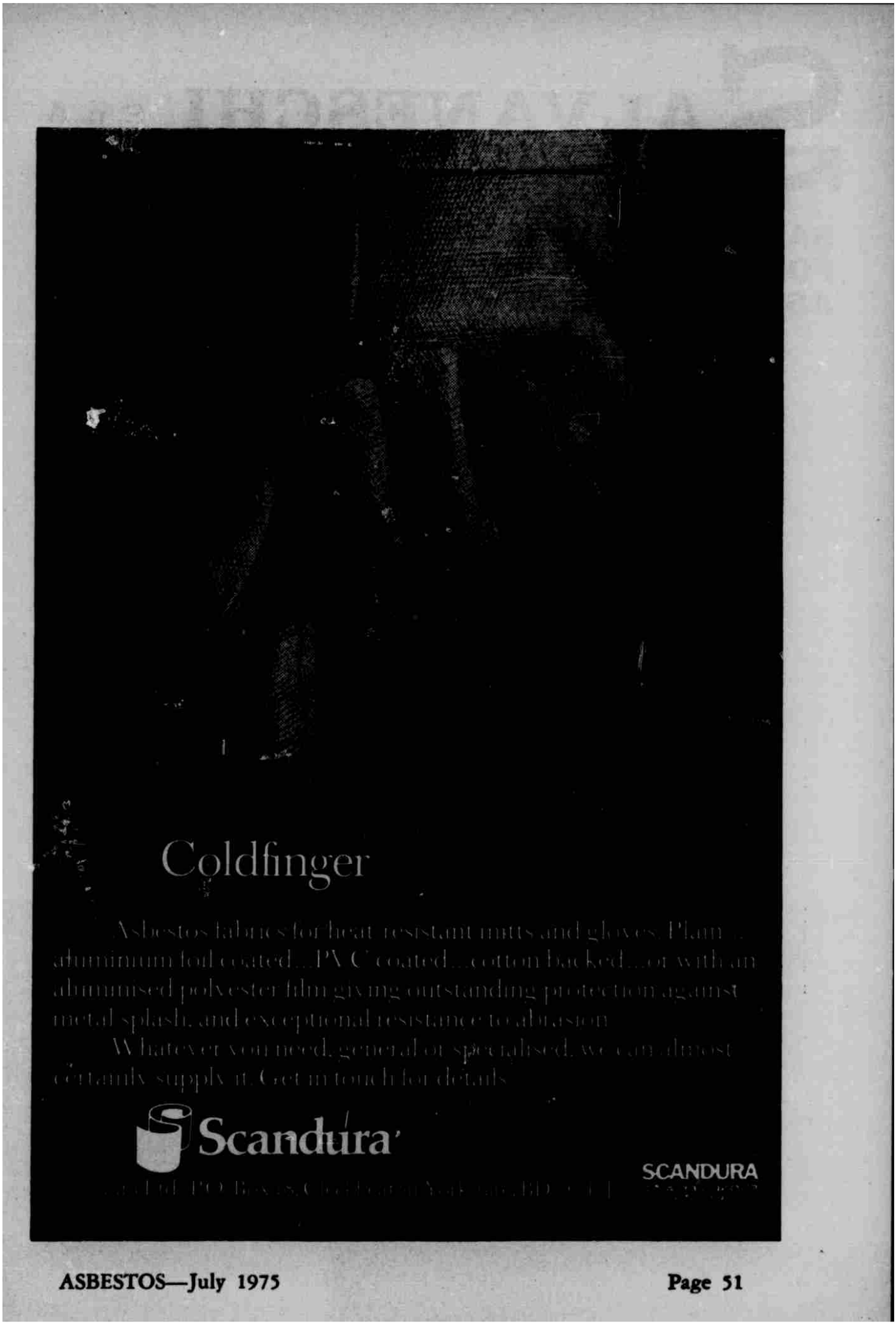
Announcement was made of the merger of Scandinavia Belting Ltd. and the British Asbestos Co. Ltd. The new company retained the name "Scandinavia" for its Solid Woven Belting but, for its Woven Asbestos and Brass Wire Brake Lining, adopted the name "Mintex" in lieu of the older "Brasbestos" trade name.

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***ASBESTOS/A REMARKABLE MINERAL FIBER***—This new reference book on asbestos, by Marion S. Badollet, presents existing technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite. It contains electron micrographs, thermal analyses and X-ray diffraction patterns. If you are interested in ordering a copy, please contact Mr. Badollet at 563 East Front Street, Apt. 589-B, Plainfield, New Jersey 07062. [U.S. $20.00 per copy, prepaid, including postage]



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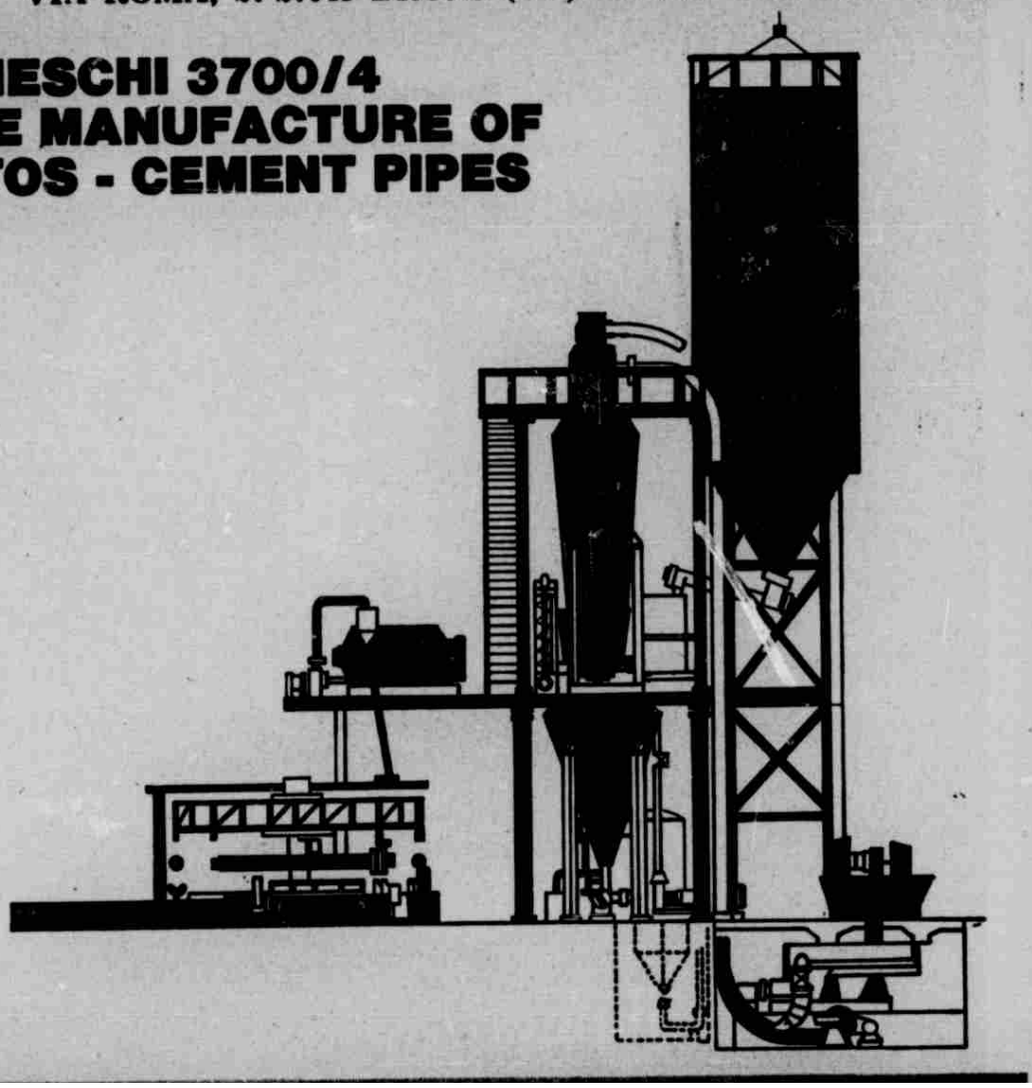


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