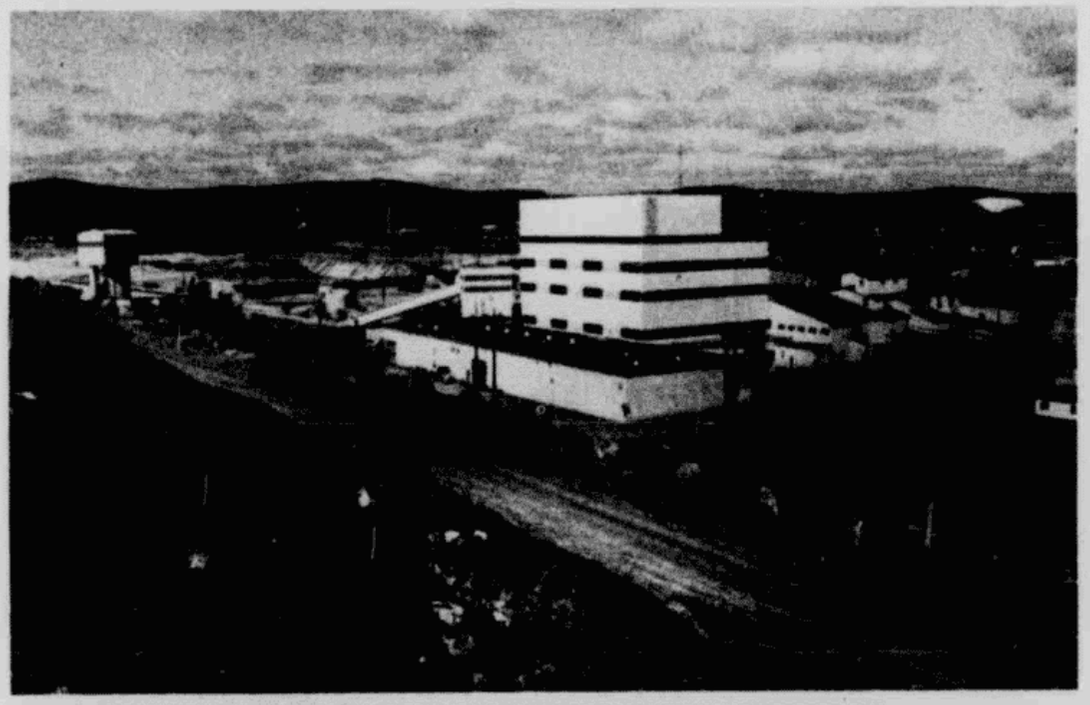


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THE NEW POMFRET MILL COMPLEX

On August 22, 1978, the Minister of Mines officially opened the new Pomfret mill complex of *Cape Asbestos South Africa (Pty) Ltd.*, located in the Northeastern Cape Province of the Republic of South Africa, thus marking the completion of a US$12-million expansion program. The mill was specifically designed to meet future demand for Blue asbestos fibers, to offer grade alternatives and to provide excellent working conditions for employees. According to *S. M. Dougherty*, Managing Director of Cape Asbestos S.A., the new mill at Pomfret is operating at its capacity of 30,000 metric tonnes per annum and the vertical central plenum designed mill is working efficiently and at very low dust counts. He further stated the existing mill has a capacity of 40,000 tonnes, so total annual capacity is now 70,000 tonnes.

THE POMFRET MILL

The Pomfret mill is one of the most advanced of its kind in the world. Its development was based on incorporating the most modern milling techniques available to ensure it will operate at the highest level of efficiency and to permit maximum recovery of fiber. The basis of the milling technology involves the crushing and sorting of ore, the milling and cleaning of fiber and finally, the packaging of the finished product. After sorting, the ore from the new 2A incline is delivered by conveyor to storage bins. It is then elevated from the bins to the seventh floor of the building from where it has a gravity-assisted flow down to the ground floor. In this way it is possible to restrict the use of conveyors in the mill to a minimum and, as a result, minimize the dust collection problems normally associated with the milling of asbestos. Fine dust is drawn up the length of the building's plenum to dust collectors at the top, while heavier particles in the dust stream fall by gravity to the bottom of the plenum. The use of this central plenum system

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THE COVER: The photograph on the right shows ore from the Pomfret Blue asbestos mine being conveyed up the 2A shaft to the sorting plant. The picture at the left is of the tailings conveyor from the mill plant at Pomfret. Photographs were supplied through the courtesy of Cape Asbestos South Africa (Pty) Ltd.

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has resulted in the application of much shorter lengths of ducting for aspiration of fiber and for dust removal, thereby reducing the possibility of choked and leaking ducts which are sources of dust in the mill. Asbestos fiber separated in the mill is cleaned in degritting and dedusting units and, lastly, is graded and air-washed before being pressure-packed into bags or press-baled, ready for the market.

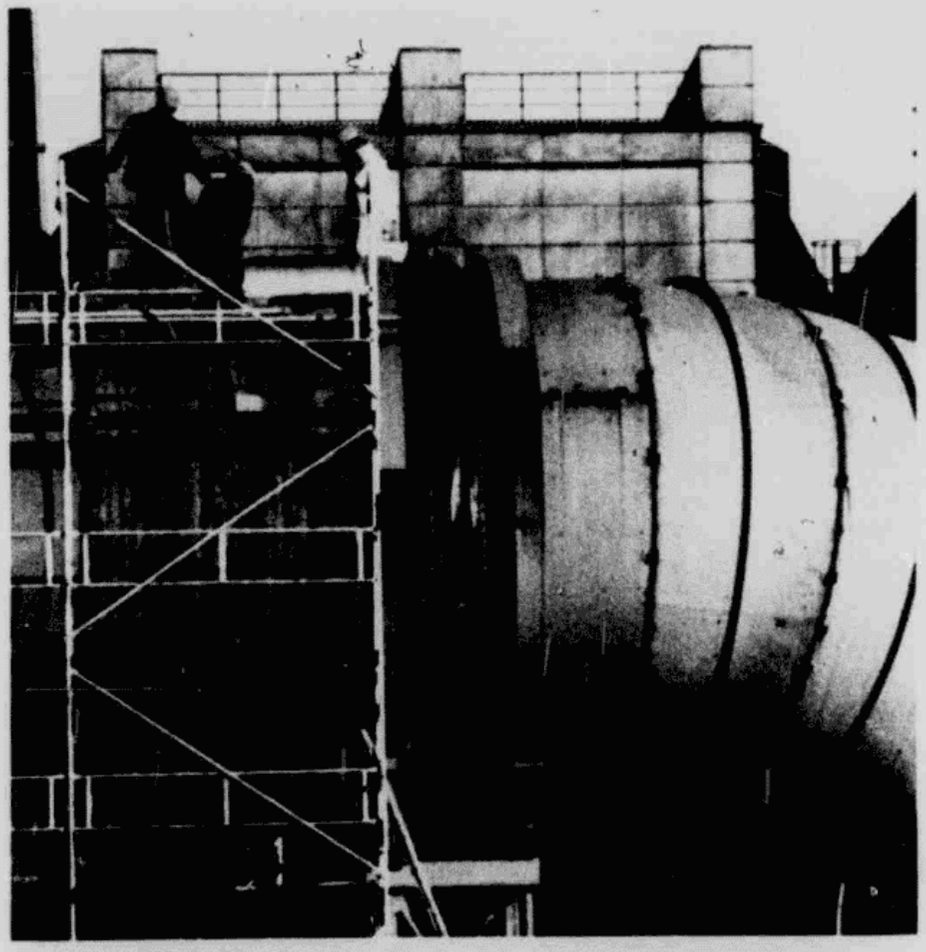
THE MINING METHOD USED AT POMFRET

The pillar and stall mining procedure is used at Pomfret with pillars cut initially 3m by 3m and 6m apart. This technique, together with the conditions of width and dip of the reef, lends itself to a high degree of mechanization. The pillar and stall mining commences directly from the reef drives, so a minimum of stope preparation is required. In the 2A incline shaft area, hand-held jackhammers have been replaced by jumbo drilling rigs. The holes drilled are charged with 40% ammon dynamite with capped fuses which are ignited by a medium-burning igniter cord. Until recently ore was transported by means of one-ton coco pans and small battery locos which carried the ore from boxholes to shafts through footwall haulages. Now use is made of ten-ton, haul-dump units which are loaded at the face and convey the ore along the footwall of the reef horizon directly to the shaft boxes. This eliminates the need for the development of costly footwall haulages. The older shafts at Pomfret have been equipped with conventional apparatus. The new 2A incline shaft, however, is equipped with a 380m long conveyor (tail pulley to head pulley) traveling at 1.25 meters per second to transport the ore out of the mine to the primary bins of the sorting plant.

ORE RESERVES

The establishment of the new mill complex, in addition to the existing mill, enables Pomfret to offer a full range of grades to meet the specific requirements of customers. Pomfret is uniquely fortunate in having very substantial high-grade deposits of Blue asbestos at shallow depths. The new mill has been built with the knowledge that reserves are more than adequate to justify an in-

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vestment of this magnitude. Quite apart from these reserves, a recently completed exploration program has proved sufficient high-grade reserves on another property to justify the establishment of a completely new operation comparable in size and economics to the Pomfret mine.

ABOUT CAPE ASBESTOS

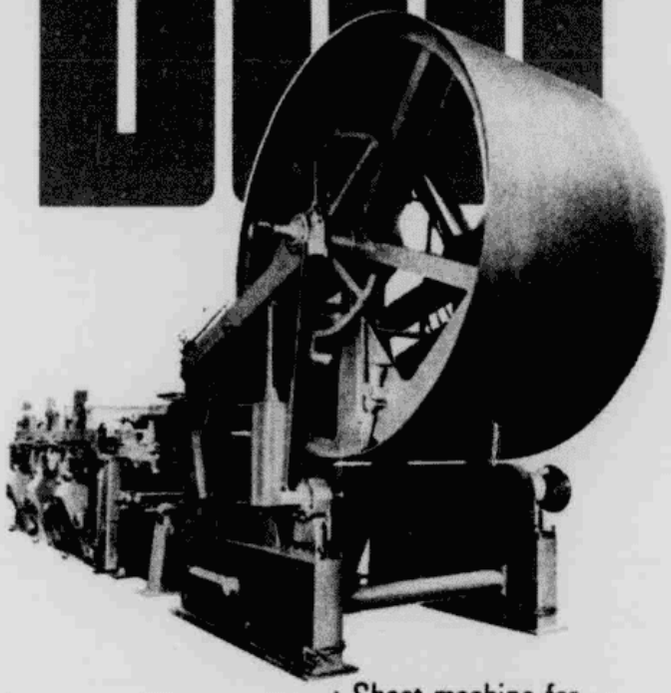
Cape Asbestos S.A. was registered in South Africa in 1893 and is a wholly-owned subsidiary of *Cape Industries Ltd.*, a company incorporated in the United Kingdom. CIL is 67% owned by *Charter Consolidated Ltd.*, which, in turn, is an associated company in the U.K. of *Anglo American Corporation of South Africa Ltd.* Cape Asbestos is a holding company for three asbestos mining operations and is the largest amphibole asbestos producer in the world. The Blue asbestos fibers produced at Pomfret are used mainly in the production of asbestos-cement pipes and sheets. Another Blue mining facility is situated at Koegas on the banks of the Orange River. This operation, which has an annual capacity of 20,000 tonnes, was the first Blue asbestos mine in the Cape Group and has been producing for 85 years. However, the depletion of ore reserves and uneconomic mining conditions have resulted in a current phasing-out process and the Koegas Mine is being closed this year—although the reduced production of Cape's Blue asbestos has been more than replaced by the expanded Pomfret mine. Cape Asbestos also produces the fawn amphibole Amosite at its Penge mine in the Northeastern Transvaal. It has an annual production capacity of 90,000 tonnes and is the largest mine in the Cape Asbestos Group. Amosite is used in the manufacture of asbestos-cement pipes and sheets and of low-density, fire-resistant boards and insulation materials. Cape Asbestos S.A. reports that its policy of continued exploration has secured sufficient fiber deposits to meet all foreseeable demand.

—NEXT ISSUE—
MINING REVIEW, 1978

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OTHER NOTABLE MINING EVENTS

QUEBEC FORMS NEW CORPORATION

On October 19, *The Hon. Yves Berube*, Quebec Minister of Natural Resources, announced the decision had been reached by the Provincial Government to set up a head office in Thetford Mines for the new *Societe Nationale de l'Amiante*, thereby rendering the National Asbestos Corporation (English translation) operational. The SNA, which, in actuality, has been in existence since its creation under Quebec's Bill 70, enacted early this year, gives an industrial function to the Quebec Asbestos Policy, the recently-formed Asbestos Bureau being the ministerial segment. The Asbestos Bureau will be responsible for setting up a Research and Development Institute and for negotiating agreements with companies. However, responsibility for its industrial projects has been transferred to the new corporation. A temporary, seven-member Council of Administrators of SNA has been named, with *Daniel Perlstein* serving as President. Mr. Perlstein had been in charge of the Asbestos Bureau. Additional facilities to be set up for the new corporation are a Government Relations Office in Quebec City and a Financial and Marketing Office in Montreal.

As its first project, under a $4.7-million budget granted by the Quebec Government, the new corporation is in the process of renovating an existing plant in the Province for the ultimate production of asbestos paper. The new facility is to be operational by February 1979, initially producing 20,000 tons of material per year and having a total annual capacity of 40,000 tons. *Papiers Cascades Ltee*, a private producer of asbestos felts, will become Manager of the plant and *Donald Roy*, Press Secretary for Mr. Berube, advises that an asbestos fiber producer would be welcomed as a participant in the new venture. All the asbestos paper produced at the plant is to be sold to *Domco Industries Ltd.*, a major linoleum producer. The asbestos paper will be about 85% asbestos and will use 32,000 tons of Quebec asbestos—an increase of 80% over current usage within the Province, states Mr. Roy.

As a matter of record, if or when *Asbestos Corporation Ltd.* is acquired by the Province of Quebec, it will become a subsidiary of the new corporation, making SNA, in fact, a holding company. Discussions are continuing between agents for the Quebec Government and *General Dynamics Corporation* toward Quebec's acquisition of GD's 54.6% holding in Asbestos Corporation and it has been learned that an agreement, satisfactory to all parties

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concerned, is anticipated "in a matter of days." One of the biggest obstacles, we suspect, is a meeting of the minds as to a suitable purchase price per share. At mid-year it was reported the Quebec Government would offer something in the neighborhood of $40.00 per share. However, unconfirmed reports indicate that recently-made assessments point to $68.00 per share (by Kidder, Peabody and Company for the Quebec Government) and $108.00 per share (by David S. Robertson and Associates and its fiscal agent, Lazard Freres, for General Dynamics).

QUEBEC & QAMA DISCUSS ASBESTOS RESEARCH

Minister Berube met September 29 with delegates of the Quebec Asbestos Mining Association to discuss the possibilities and means of developing asbestos research in the Province. During a telephone interview with Paul A. Filteau, Executive Vice President for QAMA, it was learned the Association has suggested to the Provincial Government that the project cover new technologies, health aspects and product safety. It was also proposed that a standard evaluation office be established to test the safety of pertinent products to the consumer. Reportedly the Quebec Government suggested the asbestos mining companies in Quebec contribute 1% of their gross sales to the project. Our calculations indicate this could result in some $5-million per year. A second meeting has been held and talks are continuing.

BERUBE TO TOUR EUROPE

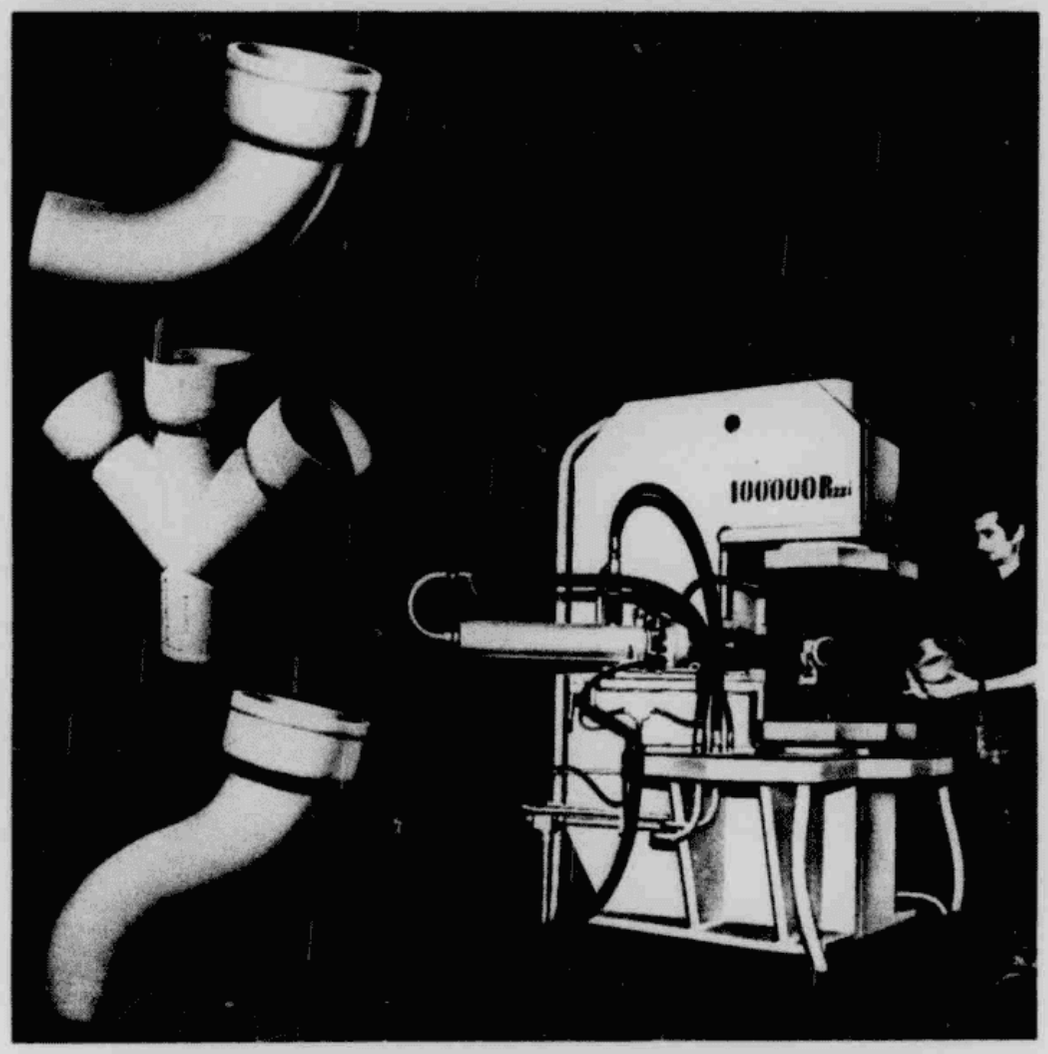
The Hon. Berube has embarked on a three-week trip to several countries in Europe, primarily to establish a good relationship between the Quebec Government and the international industrial community. He plans to explain the Quebec point of view, to invite new asbestos business into the Province of Quebec and to gather information on the asbestos-health situation and other common problems. Mr. Berube expects to visit with asbestos fiber users and an asbestos association in Bonn, West Germany, and to tour an asbestos research center in that city. He says the industrialists with whom he will meet have a combined business worth of some $50-million. He also anticipates meeting with the Chambre Syndicale de l'Amiante in Paris, France, and with the Asbestos International Association in Brussels, Belgium. Although unofficial as of the writing of this information, Mr. Berube will endeavor to discuss economic and health problems with the European Economic Community.

While in France, Mr. Berube will be presented with a scientific award for some ten years of research he had done prior to becom-

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ing the Quebec Minister of Natural Resources. The research was mainly concerned with flotation techniques and was performed in the United States, Quebec and France. The gold medal, the first to be awarded to a Quebec citizen, will be presented by the Societe pour l'Encouragement de la Recherche Scientifique.

CASSIAR OFFICIALLY CLOSES CLINTON MINE

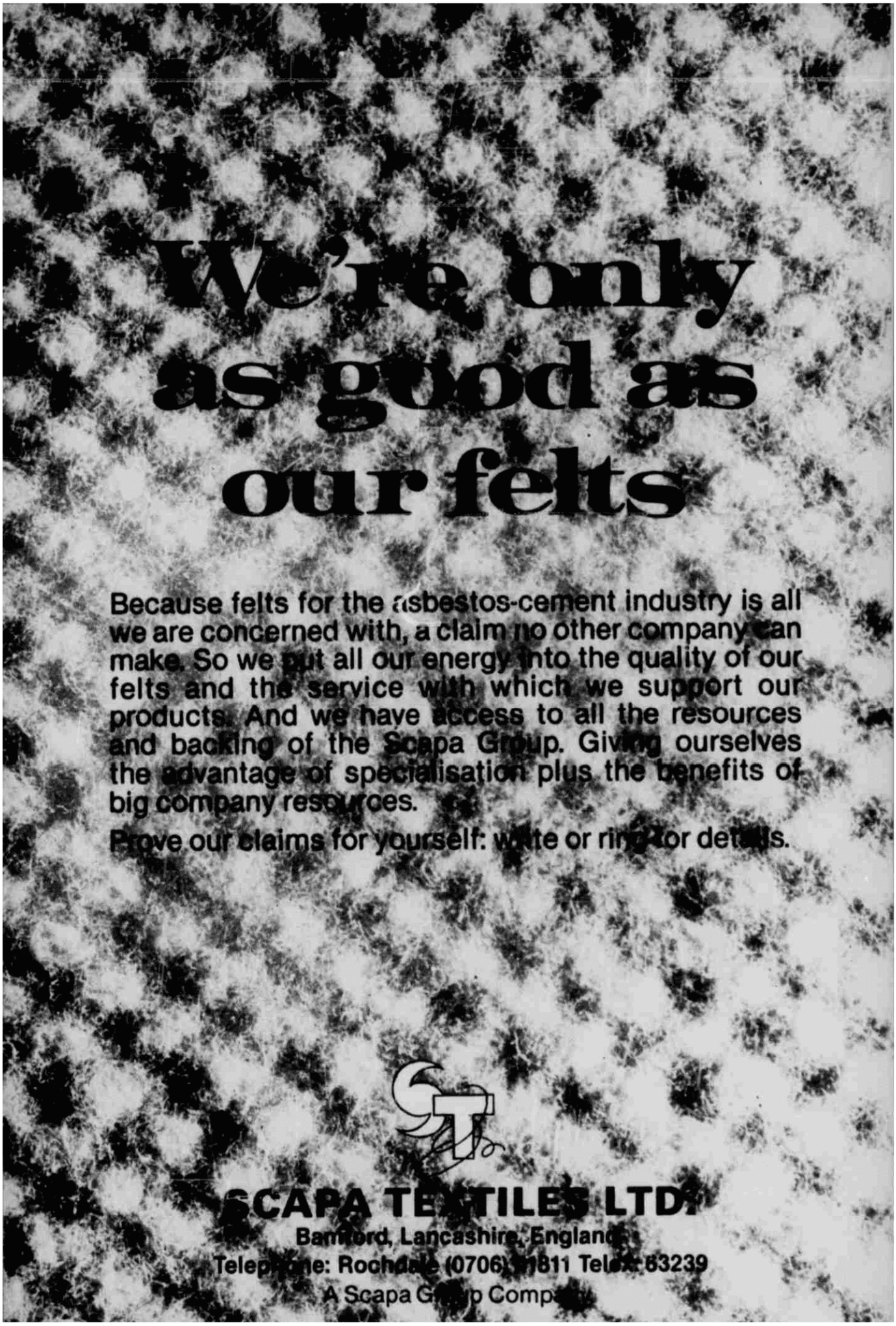
As of August 1978, *Cassiar Asbestos Corporation Ltd.* officially ceased operations of its asbestos mine and mill at Clinton Creek, in the Yukon Territory, Canada's most westerly mining community. The mine had been in production for a little over ten years, the property having been acquired by option in 1957. Following nine years of exploration and development, actual construction of the mine and its community commenced in 1966. Official production started April 1, 1968. During its life span, the mine produced 1,033,699 tons of asbestos fiber, valued at about C$295-million. The main orebody, which was 80 to 250 feet wide, 800 feet deep and 2,000 feet long, contained good quality ore with a recoverable factor of 5½% of Chrysotile fiber. Two additional but smaller pits produced ore of similar quality. Since its inception, the Clinton Mine has removed four tons of waste for every ton of ore it produced. The mine was closed because the supply of ore had been exhausted.

Clinton Creek is located 59 miles from Dawson Creek, an active Yukon town of Klondike gold rush fame, and 400 miles northwest of Whitehorse, the capital of the Yukon. The community contained some 450 people. A comprehensive job replacement program was instituted by Cassiar Asbestos in cooperation with government agencies. Combined with a severance allowance plan, the program has assisted personnel whose employment was terminated as a result of closure of the mine. Many specially skilled or qualified employees have accepted employment at the Cassiar Asbestos Mine at Cassiar, British Columbia.

Selected pieces of mining equipment formerly in use at Clinton Creek have been earmarked for removal and eventual installation at the Cassiar operation. Surplus apparatus has been sold by auction at the mine site.

The closing of the Clinton Mine also resulted in the shutting down of Cassiar's Transport Division based at Whitehorse. During the life of the mine, the Transport Division's tractor-trailer trucks traveled approximately 28-million miles carrying fiber from Clinton Creek to the railhead at Whitehorse. From there it was shipped by rail to Skagway, Alaska, and on to Vancouver by White Pass & Yukon Route container ships.

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LAKE ASBESTOS BECOMES LAC D'AMIANTE

Lake Asbestos of Quebec Ltd. has changed its name to *Lac d'Amiante du Quebec, Ltee,* effective November 1, 1978. *Michael J. Messel,* President of LAQ, stated the change of name is an important symbolic step in the history of the company and is in line with LAQ's basic commitment to its employees in the Province of Quebec. Founded in 1952, LAQ is Canada's second largest asbestos fiber producer—mining, milling and selling the material from two mines located in the Thetford Mines area of Quebec. The company is a subsidiary of *ASARCO Incorporated,* New York City.

BELL ASBESTOS EXPANDS

As part of its underground expansion and improvement program, *Bell Asbestos Mines Ltd.,* Thetford Mines, Quebec, temporarily halted production in July to begin two weeks of significant work on its No. 3 shaft. It was reported by *Marcel Dorais,* President of Bell Asbestos Mines, that the work was necessary to meet the projected 28% increase in production as of January 1979. He said the company must maintain a steady ore reserve and anticipate mining a new section of its orebody.

Production at the Bell Mine, presently 16,500 tons of raw ore per week, is to reach 22,500 tons in January. Annual asbestos fiber production capacity will be increased from the current 58,000 tons to 72,000 tons.

Bell Asbestos has spent over $28-million to modernize its facilities since it began the program in 1966. A considerable portion of the expenditure has been to improve health conditions at the work site. Part of the project is an increase in ventilation capacity. Once the new ventilators are installed, capacity will increase from 90,000 cfm to 150,000 cfm.

The company also recently began constructing a new office building to house its administration and engineering departments. The exterior of the building will be asbestos cement and bricks—to demonstrate the numerous possibilities, both aesthetically and practically, offered by asbestos cement materials. [QAMA Bulletin]

EXPLORATION AT ABITIBI

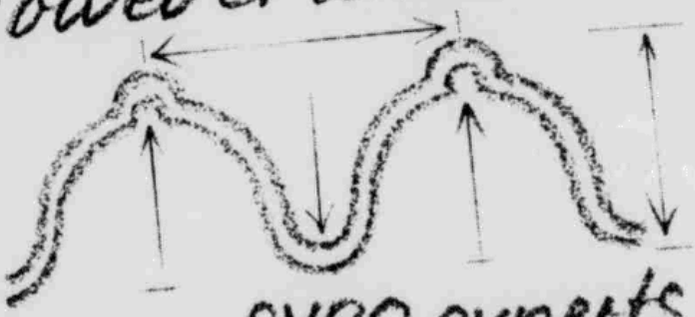
Recent news reports indicate that new exploration is underway at the Abitibi asbestos project near Amos, in northwestern Quebec. It appears unlikely, at present, that the Quebec Govern-

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ment will decide to participate in developing the property, although this situation may change once a final decision is made on whether or not the Provincial Government will acquire controlling interest in Asbestos Corporation Ltd. It is understood that talks continue between *Brinco Ltd.* and other companies, including *ASARCO Incorporated*, an original prospective partner in development of the site. Development will probably be accomplished by a consortium led by Brinco, which holds 60.4% of *Abitibi Asbestos Mining Co. Ltd.* Cost estimates have risen to well over C$400-million for mine development and a milling plant. Proven and probable ore reserves in three orebodies have been determined sufficient for 40 years of production at a peak annual rate of 250,000 tons of fiber.

KILBORN SUBMITS DAFFODIL REPORT

Great Northern Pulp & Paper Group Ltd., Toronto, has received a report from *Kilborn Ltd.* on its Daffodil asbestos property located in Deloro Township, Cochrane District, Ontario. Kilborn has recommended drilling to 1,500 feet in order to prove reserves in the 37-million to 50-million ton range. The engineering/consulting firm estimates a value of $12.94 per ton, in place, representing a recovery of 4.03% fiber. The first phase of the project would cost some $65,000. Now that the report has been received, says *T. D. Howes*, President of Great Northern, the company is confident it can soon arrange financing.

ASBESTOS FIBER MARKET

Demand for Group 7 asbestos shorts continues to exceed supply in spite of the fact that the miners at Carey-Canadian Mines Ltd., East Broughton, Quebec, have returned to work. The roof coating and flooring businesses remain strong and account for the good demand in the United States for Group 7. Unofficial figures indicate Canadian shipments of asbestos for the first half of this year to be 701,512 short tons vs. 805,111 tons for the corresponding period in 1977. A lack of improvement remains for sales of asbestos cement grades as overseas customers who primarily consume these grades continue to reduce their inventories of fiber and of finished products.

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MARKET CONDITIONS

GENERAL BUSINESS

While general business was good in September there were several faint signs that the widely predicted slowdown might be getting under way. Orders for durable goods dropped slightly in September and new car sales were off by 2.1% in the first weeks of October. One automaker was closing two of his five assembly plants for one week to control dealers' inventories.

Inflation continued to hold the spotlight as consumer prices rose 0.8% in September. Mr. Carter made public his latest plan to control inflation, consisting of specific guidelines for voluntary limits on price and wage increases by business and labor and some suggested curtailment in government hiring, spending and regulation. While business and labor leaders have publicly expressed a willingness to *try* the plan as an alternative to mandatory controls, there is much underlying skepticism as to its basic soundness and practicality.

We are inclined to agree with those who feel that no plan, including mandatory controls, can succeed in halting and eventually reducing inflation unless its centerpiece is the re-establishment of fiscal and monetary responsibility on the part of government. Since politicians in general, from the President on down, appear unwilling to acknowledge this truth or to put it into practice, it seems likely that high rates of inflation will persist until, one day, they will wreck the entire economy. The fact that foreigners have little faith in the ability or willingness of this Country to properly manage its government or its economy is evidenced by the drop in value of the dollar which has been hitting new lows vis-a-vis the stronger foreign countries.

As this is written, Mr. Carter has announced a program of U.S. intervention in foreign exchange markets to prop up the dollar. At the same time the Federal Reserve increased its discount rate by a full percentage point to 9½% and several large banks increased their prime rates to 11%. This set off an historically unprecedented rally in the stock market after the precipitous decline of late October and the dollar showed renewed strength in extremely active trading.

These moves indicate the Administration is coming to grips with reality in its fight on inflation. While we may run a risk of recession in the short run, the chances of improving the longer range picture have been enhanced by these actions.

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HOUSING & CONSTRUCTION

SEPTEMBER 1978—A surge of commercial and industrial building coupled with a heavy cutback in electric utility projects left the month's $13.8-billion total of contracts for new construction unchanged from September 1977. The seasonally adjusted Dodge Index (1967 = 100) recorded 300 in September, 4% ahead of 289 in August and 286 in July.

Contracts in September for *nonresidential building* came to $4.6-billion, a 29% gain over the same month a year ago. Commercial building was up 52%, with particular strength in offices. Several major petrochemical facilities helped raise industrial construction contract value by 60% in September. . . . *Residential* building contract value, at $6.3-billion, was 12% higher than last year. . . . A 36% decline to $2.9-billion in contracting for *nonbuilding* construction in September was almost entirely due to the absence of electric power projects. Highway contracting was steady and sewer and water projects were up sharply.

FIRST NINE MONTHS 1978—At the end of nine months, the total value of contracts for all construction initiated in 1978 was $121.1-billion, up 12% from the same period a year earlier. The breakdown, by category, is $33.6-billion for nonresidential building, up 31%; $56.5-billion for residential building, up 21%; $31.1-billion for nonbuilding construction, down 13%. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

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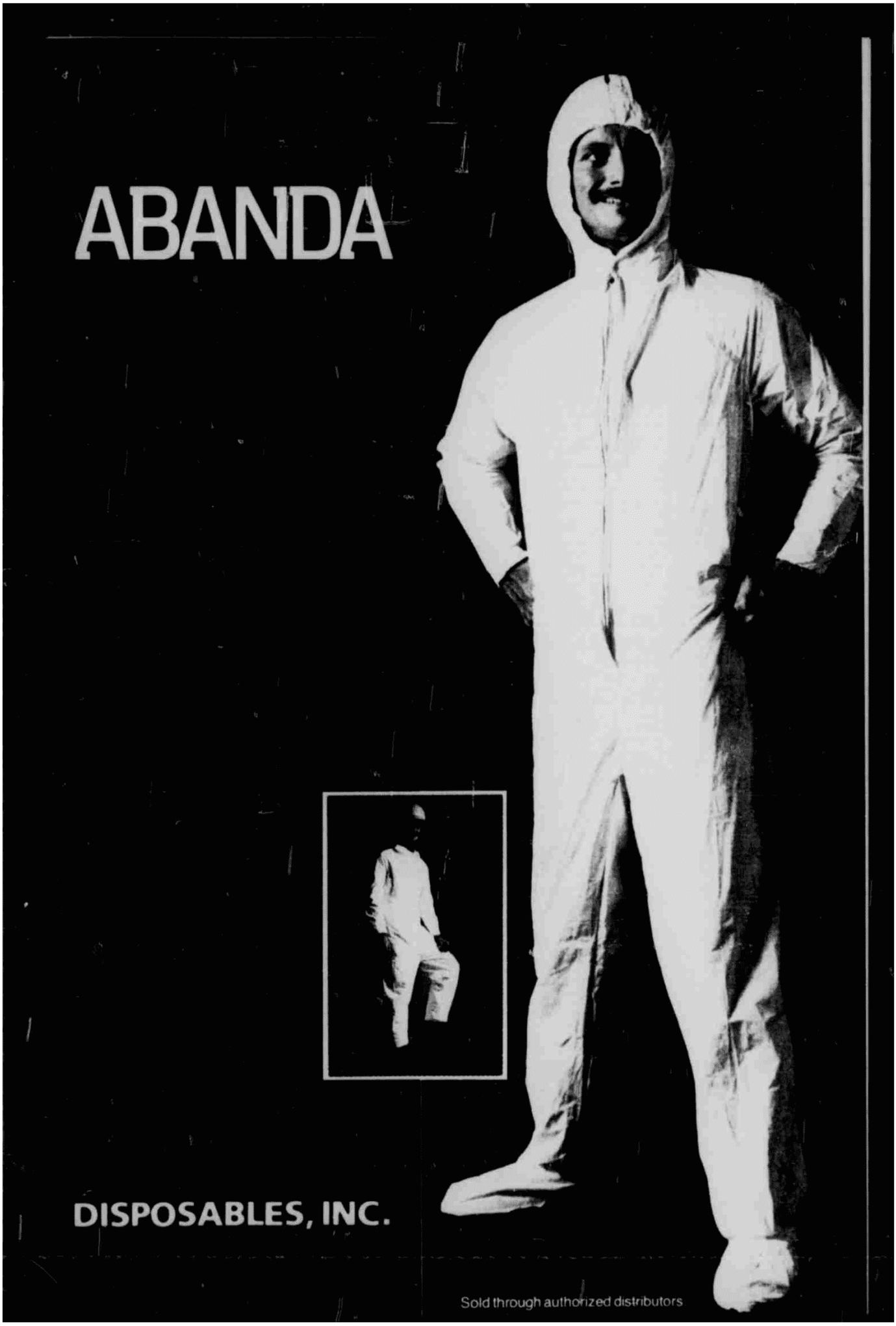
HEW DATA RECEIVES OPPOSITION

"At least 20% of all cancer in the United States—and perhaps more—may be work-related, said Joseph A. Califano, Jr., Secretary of the U.S. Department of Health, Education and Welfare at the AFL-CIO National Conference on Occupational Safety and Health, September 11, 1978. The statement was based on a new study by scientists at the National Cancer Institute, the National Institute of Environmental Health Sciences and the National Institute for Occupational Safety and Health. Several exceptions to Mr. Califano's remarks and to a major portion of the scientific report (Estimates Paper) have been taken by the American Industrial Health Council (AIHC), an organization representing 115 companies and 60 trade associations. While recognizing that occupationally-related cancers do occur and that this incidence must be reduced, says AIHC, scientific evidence does not support the contention that the magnitude of the problem even approaches the projections made in the Estimates Paper. Concerning the projections for asbestos-related disease and deaths, for instance, AIHC reports that data available from the Third National Cancer Survey and from the SEER Program (Surveillance, Epidemiology and End Results) of the National Cancer Institute belie the projections of an asbestos epidemic which are contained in the Estimates Paper. If the Paper is correct, said the Council, the U.S. should at present be experiencing a marked increase of mesothelioma. Using the methodology set out in the Paper itself, one would project a present-day mesothelioma incidence of at least 5,000 to 9,000 annually (using some very conservative assumptions) and possibly as high as 10,000 or more. In fact, SEER data indicate the national annual incidence is about 950. [A photocopy of each of the following documents is available from ASBESTOS Magazine, at 20¢ per page: Mr. Califano's remarks before the AFL-CIO (27 pages); The Estimates Paper (51 pages); and AIHC's response to the Estimates Paper (23 pages).]

COMMISSION REVIEWS CONSUMER PRODUCTS

The U.S. Consumer Product Safety Commission (CPSC) is continuing to review asbestos in consumer products following its ban of consumer patching compounds and artificial emberizing materials containing respirable, free-form asbestos. A study of asbestos use in consumer products was completed for CPSC in April by A. T. Kearney, Inc. and the Commission has subsequently

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ranked products identified in the Kearney report according to the likelihood of asbestos fiber being released under foreseeable use conditions. Of the products identified by Kearney, just three are of significant concern to CPSC: potter's clay, dry-mix texture paint and bulk asbestos. CPSC acknowledges that preliminary results of the survey indicate that no intentionally added asbestos is being used at present in potter's clay, but it is recommending the development of a regulation banning the sale to consumers of bulk asbestos fiber and dry-mix texture paints containing asbestos.

The latest related CPSC contract has been awarded to Battelle Columbus Laboratories to further study dry-mix textured paints; bulk asbestos fiber; asbestos-cement products; millboard products; lumber-related products (plywood patch or filler and composition board); and asbestos-containing, sprayed-on, decorative acoustical or thermal insulation products. The timetable for completion of the Battelle study is staggered, with the final segment due February 1, 1979.

Meanwhile, the Commission is considering ways to inform consumers how to prevent exposure to asbestos from ceilings and other structural surfaces and is recommending an investigation into the feasibility of developing the analytical capability for asbestos fiber identification; determining fiber release from specific products or product categories; and defining asbestos "contamination" levels in the presently banned patching compounds. [Asbestos Information Association/North America]

OSHA MEANDERINGS

The U.S. Occupational Safety and Health Administration (OSHA) issued its final ruling, effective November 24, 1978, revoking certain General Industry Safety and Health Standards codified in 29 CFR, Part 1910. OSHA believes the action will better effectuate the purposes of the Occupational Safety and Health Act by allowing the Administration to concentrate its enforcement resources on hazards which have greater significance and impact on exposed employees. The revoked standards make up 10% of the wording of all OSHA safety standards. [10/24/78 FR, pages 49725-67]

On July 21, 1978, OSHA published a proposed rule on access to employee exposure and medical records [See September 1978 ASBESTOS, page 16]. Based on the widespread interest expressed in the proposal, OSHA will hold informal public hearings on the proposed rule, as follows: December 5 in Washington, D. C.; December 12 in Chicago, Illinois; and December 15 in San Francisco, California. [10/6/78 FR, pages 46322-23]. . . . The

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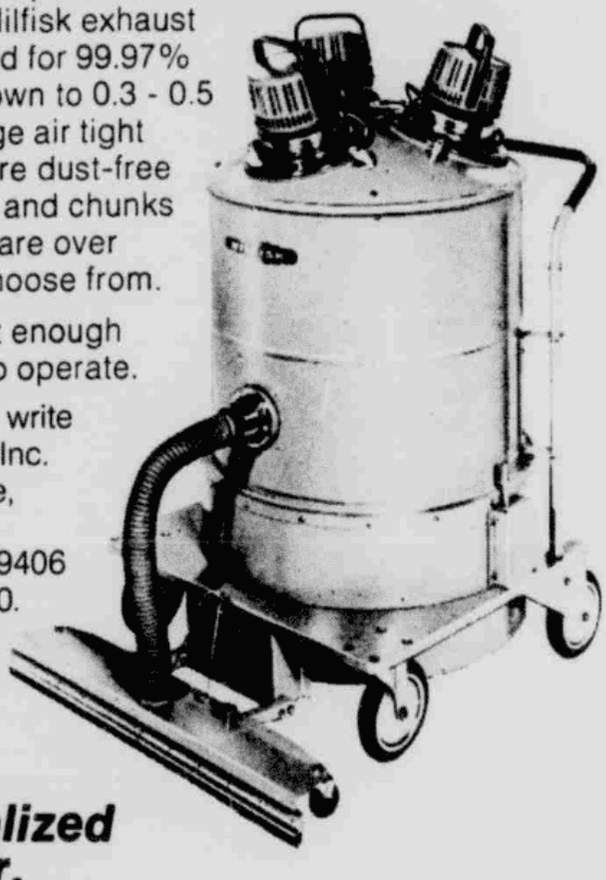
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American Occupational Medical Association (AOMA) has issued a strong protest against the OSHA proposal, contending that workplace medical records often contain highly personal data such as records of emotional and mental illnesses and drug, alcohol and family problems. Since this personal data may be subject to exposure under the OSHA proposal, workers' rights to privacy might well be abused, says Alan A. McLean, M.D., President of the Association. AOMA further maintains it is conceivable that opening workplace medical records would place serious constraints on the communication between occupational health professionals and their employee-patients. [American Industrial Hygiene Association Journal]

In post-hearing comments filed with OSHA, the Manufacturing Chemists Association (MCA) charged that OSHA exceeded its authority in issuing the much-debated carcinogen regulation proposal (the generic cancer policy). According to MCA, any regulation considered for a specific chemical must make provision for a risk-benefit analysis. Further, the Association contends OSHA has neither the authority nor the expertise to determine, as it proposes to do, questions of suitable substitutes for regulated substances. [Chemical & Engineering News]

LABOR DEPARTMENT AWARDS CONTRACTS

In September the U.S. Department of Labor awarded contracts worth over $1.75-million for a comprehensive study of workers' compensation for occupational diseases, primarily work-related respiratory and pulmonary problems. Of interest is the largest contract in the study—$498,801 awarded to Dr. I. J. Selikoff of the Mount Sinai Medical Center for a statistical analysis of disease incidence rates among asbestos workers, projections of worker disability and mortality and economic impact. The experience of disabled workers with compensation, social security and other sources of financial support will be examined.

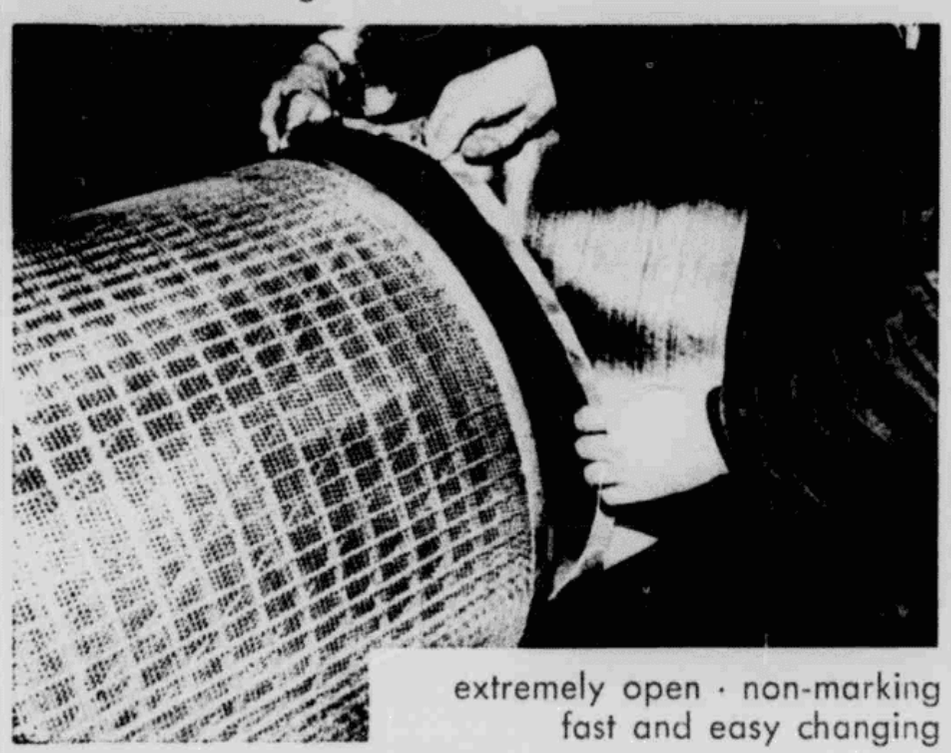
NIOSH NEWS

Dr. Anthony Robbins, former Executive Director of the Colorado Department of Health, has been selected to serve as Director of the National Institute for Occupational Safety and Health (NIOSH), a move which is fully endorsed by the AFL-CIO. Dr. Robbins, 37, succeeds Dr. John F. Finklea who resigned in January after three years as the NIOSH Director.

NIOSH has solicited information concerning the priority for development of recommended health standards for the mining industry. From a list of specific hazards (which includes asbestos),

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six materials will be selected for development of a recommended standard during Fiscal year 1979. Development of a standard for hazards other than those specified will be considered, based upon data provided by the public concerning the extent of exposure, health effects and known environmental concentrations or levels. [10/3/78 FR, pages 45646-47]

EPA WITHDRAWS & PROPOSES

The U.S. Environmental Protection Agency (EPA) has withdrawn its interpretation of the variance clause of its Best Practicable Technology (BPT) National Effluent Guidelines Regulations under the Clean Water Act. Now a plant may secure a BPT variance by showing that its own compliance costs with the national guideline limitation would be *x* times greater than the compliance costs of the plants EPA considered in setting the national BPT limitation. [10/26/78 FR, page 50042]

On August 21, 1978, EPA proposed a rule which would extensively revise existing regulations governing the National Pollution Discharge Elimination System, a program which is applicable to every manufacturer who discharges wastewater. The comment period for the proposd rulings has been extended to November 20, 1978. Also extended to November 20 is the due date for response to EPA's proposed requirements for spill prevention control and countermeasure plans to prevent discharges of hazardous substances from certain facilities and to the proposed criteria and standards for imposing best management practices for ancillary industrial activities. [10/13/78 FR, pages 47213-14]

EPA will hold a public meeting November 27, 1978, in Washington, D. C., and has extended the comment period to December 7, 1978, to receive reactions to its proposed rules, published August 23, 1978, implementing the "Best Conventional Pollutant Control Technology" portion of the Clean Water Act. [10/27/78 FR, pages 50226-27]

TOXIC SUBSTANCES CONTROL ACT

EPA has published its Policy For Reporting For the Revised Inventory Draft Report Form, requesting comments by December 8, 1978. The inventory reporting regulations, promulgated under the authority of the Toxic Substances Control Act (TSCA), govern the reporting of chemical substances to create an Inventory of chemical substances manufactured, imported or processed in the United States for a commercial purpose. In early 1979 EPA will publish an Initial Inventory of Chemical Substances made or im-

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ported for a commercial purpose since January 1, 1975. Following publication of the Initial Inventory, there will be a special, 210-day period during which processors and certain importers of chemical substances will have an opportunity to add substances to the Inventory in order to ensure compliance with TSCA. This second phase will result in publication of a Revised Inventory sometime in 1980 [10/24/78 FR, pages 49687-92]

EPA is requesting comments by December 20, 1978, on its Proposed Approach To Implementing the TSCA. In its appeal, EPA outlines the current method of implementing the Act, stating the present approach has evolved over the past several months and will continually become more sophisticated as the agency gains experience and develops a comprehensive strategy. [10/26/78 FR, pages 50139-47]

MINE SAFETY & HEALTH

The U.S. Mine Safety and Health Administration (MSHA) issued a final ruling effective October 13, 1978, to implement Section 115, paragraphs (a), (b) and (c), of the Mine Safety and Health act of 1977 (Mine Act). The ruling sets forth the requirements for obtaining approval of training programs and specifying the kinds of training which must be provided to miners. The rules are intended to ensure that miners will be effectively trained in matters affecting their health and safety, with the ultimate goal of reducing the frequency and severity of injuries in U.S. mines. [10/13/78 FR, pages 47453-68]

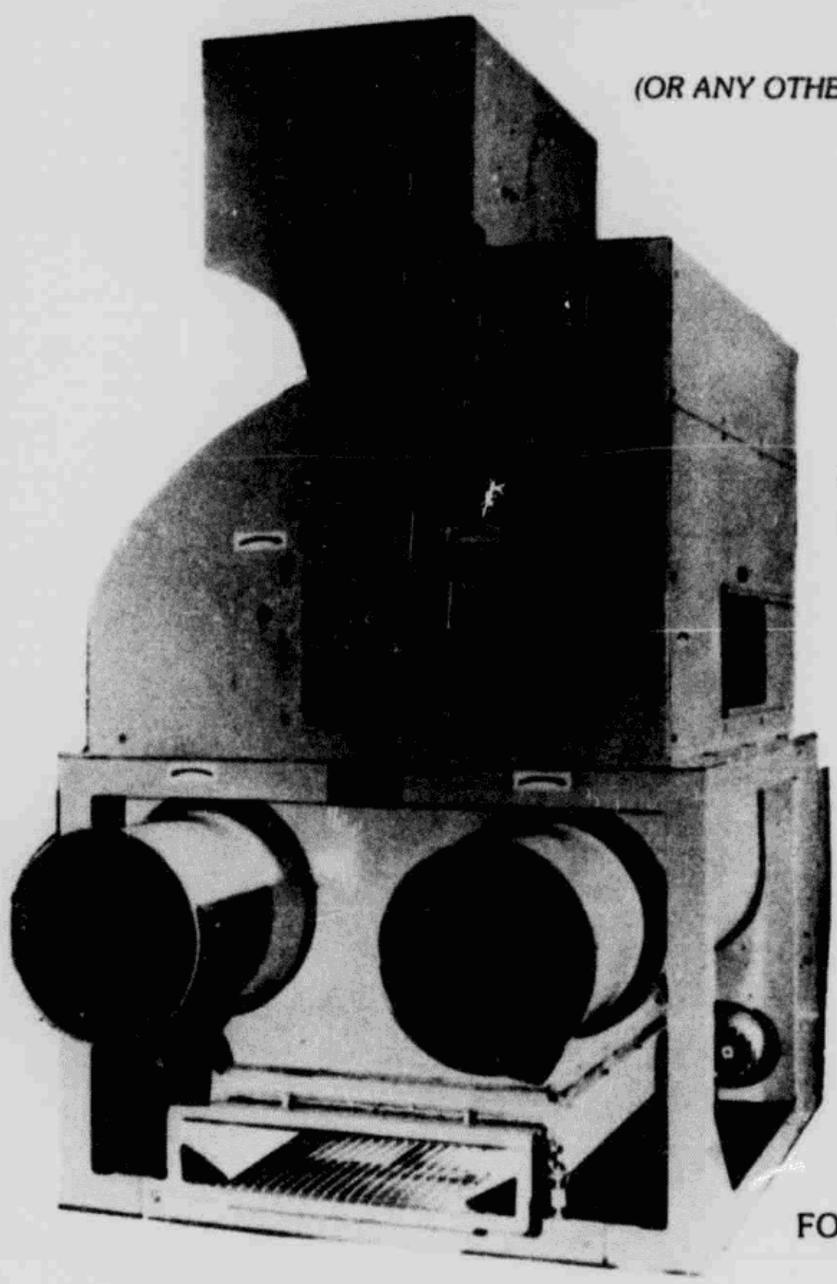
In its summary of An Advanced Notice of Proposed Rulemaking affecting independent contractors, MSHA stated the Secretary of Labor is considering a regulation which will set criteria and procedures by which certain independent contractors performing services or construction at mines will be identified by MSHA as operators. When so identified, independent contractors would generally be held solely responsible for their violations of the Mine Act. Comments on the draft proposed rule are due December 15, 1978. [10/31/78 FR, page 50716]

The Federal Mine Safety and Health Review Commission is mandated by the Mine Act to prescribe rules of procedure for reviewing pertinent cases. The Review Commission has now issued its Proposed Rules of Procedure by which interested parties may participate in the review proceedings. The proposed rules are intended to afford simple procedures, to dispense with unnecessary papers and to be brief. Written views and data may be filed until November 30, 1978. [10/31/78 FR, pages 50712-16]

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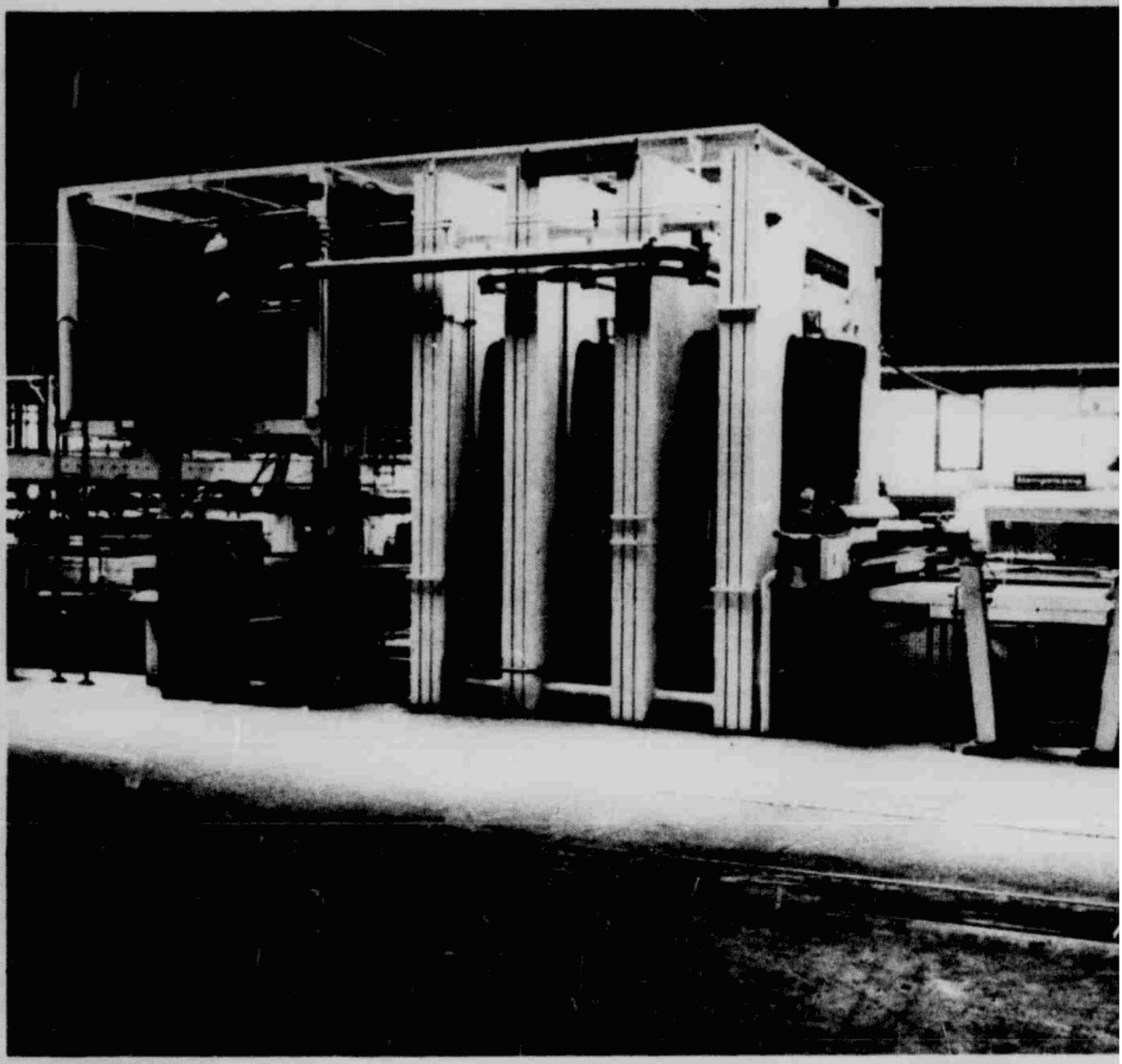
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ASBESTOSIS / A PERSONAL VIEW—By W. J. Smither, Cape Industries Ltd., London, England; Community Health 1975 (6 pages).

PREVENTION OF CHEMICAL CARCINOGENESIS BY VITAMIN A AND ITS SYNTHETIC ANALOGS (RETINOIDS)—By Michael B. Sporn, et al., National Cancer Institute, Bethesda, Maryland; Federation Proceedings 1976 (8 pages).

APPROACHES TO PREVENTION OF EPITHELIAL CANCER DURING THE PRENEOPLASTIC PERIOD—By Michael B. Sporn, National Cancer Institute, Bethesda, Maryland; Cancer Research 1976 (4 pages).

ASBESTOS CANCERS AS AN EXAMPLE OF THE PROBLEM OF COMPARATIVE RISKS—By J. C. Gilson, Llandough Hospital, Penarth, Glamorgan, Wales; INSERM 1976 (9 pages).

THE FACTS ABOUT THE DANGERS OF ASBESTOS IN THE HOME—Woman's Own, a United Kingdom publication (1 page).

RETINOIDS AND CARCINOGENESIS—By Michael B. Sporn, National Cancer Institute, Bethesda, Maryland; Nutrition Reviews 1977 (6 pages).

IMPACT OF SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS ON MEDICAL PRACTICE IN INDUSTRY—By Morton Corn, former U.S. Assistant Secretary of Labor for Occupational Safety and Health; Occupational Medicine Seminar 1977 (24 pages).

MEDICAL ASPECTS OF OCCUPATIONAL EXPOSURE TO ASBESTOS—By Hilton C. Lewinsohn, Raybestos-Manhattan, Inc., Trumbull, Connecticut; FMSI Annual Meeting 1977 (30 pages).

CANCER MORTALITY IN RELATION TO ASBESTOS IN MUNICIPAL WATER SUPPLIES—By Donald T. Wigle, Bureau of Epidemiology, Health and Welfare, Ottawa, Ontario; Archives of Environmental Health 1977 (6 pages).

THERAPEUTIC APPROACHES IN MALIGNANT MESOTHELIOMA—By Sewa S. Legha, National Cancer Institute, Bethesda, Maryland; Cancer Treatment Reviews 1977 (11 pages).

HLA ANTIGENS IN ASBESTOSIS—By Henryk Matej, et al., Polish Academy of Sciences and Medical Academy, Warsaw, Poland; Archivum Immunologiae et Therapiae Experimentalis 1977 (3 pages).

MESOTHELIOMA AND ASBESTOS IN THE PROVINCE OF QUEBEC 1969-1972—By Gilles P. Theriault and Liliane Grand-Bois, Laval University, Quebec City, Quebec; Archives of Environmental Health 1978 (5 pages).

ASBESTOS ASSOCIATED DISEASE IN UNITED STATES SHIPYARDS—By Irving J. Selikoff of Mount Sinai School of Medicine and E. Cuyler Hammond of American Cancer Society, Inc.; CA—A Cancer Journal for Clinicians 1978 (7 pages).

THE RIGHT TO KNOW—By Harold J. Magnuson, University of Michigan; Archives of Environmental Health 1977 (5 pages).

RISKS OF ENVIRONMENTAL EXPOSURE TO ASBESTOS—British Medical Journal 1978 (1 page).

EXPOSURE TO ASBESTOS DUST—British Medical Journal 1976 (1 page).

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PRODUCTION—IMPORTS—EXPORTS

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 182,317 short tons in *August 1978* compared with 155,260 tons for the eighth month of 1977. The cumulative total for *January-August 1978* was 988,208 tons: 830,251 tons from Quebec plants and 157,957 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first eight months of 1977 was 1,089,990 tons: 878,070 tons from plants in Quebec and 211,920 tons from plants in the other four Provinces. . . . Beginning January 1978, these figures include concentrate shipped from Asbestos Hill. [Statistics Canada]

CANADA PRODUCT IMPORTS

Canada imported C$13,151,000 worth of asbestos-containing products in *January-June 1978* compared with $11,165,000 in the like 1977 half-year. A breakdown for the latest six months is: vinyl-asbestos floor and wall tiles—$110,000 (65,081 square yards); asbestos cloth, dryer felts and sheets—$1,848,000; asbestos packing—$1,012,000 (503,653 pounds); asbestos brake linings—$3,299,000; asbestos clutch facings—$752,000; asbestos-cement shingles and siding—$25,000; asbestos-cement boards and sheets—$319,000; other asbestos building materials—$3,749,000; other basic asbestos products—$2,037,000. . . . Imports of unmanufactured asbestos totaled 507 tons valued at $317,000 for the first half of 1978 compared with 2,314 tons valued at $692,000 in the comparable period in 1977. In the latest six-month period, 339 tons valued at $183,000 were imported from the Republic of South Africa and 168 tons valued at $134,000 were imported from the United States. [Statistics Canada]

SOUTH AFRICAN OUTPUT & EXPORTS

Production of asbestos for the *Year 1977* totaled 380,164 metric tonnes, 10,324 tonnes more than in the year 1976. The breakdown for 1978 is: 200,966 tonnes of Cape Crocidolite (up 22,555 tonnes); 111,575 tonnes of Chrysotile (up 550 tonnes); 66,983 tonnes of Amosite (down 11,915 tonnes); 550 tonnes of Anthophyllite (down 956 tonnes); 90 tonnes of Transvaal Crocidolite (up 90 tonnes). . . . *Exports* for the *Year 1977* were valued at R133,395,038, up R21,477,279 over the year 1976. By variety of asbestos, the values for 1977 were: Cape Crocidolite—R90,417,430 (up R16,151,904); Chrysotile—R19,494,034 (up R5,147,090); Amosite—R23,459,480 (up R275,181); Anthophyllite—R24,094 (down R96,896). No Transvaal Crocidolite was exported from South Africa in either 1977 or 1976. [Department of Mines, Braamfontein]

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: — **JULY 1978**

Amosite, Canada	s.tons	20	$	13,842
Republic of South Africa	s.tons	192		110,238
Crocidolite (Blue), South Africa	s.tons	1,871		1,088,803
Chrysotile Crudes	s.tons	..		..
Chrysotile Spinning Fibers, Canada	s.tons	949		940,752
Chrysotile, Other, Canada	s.tons	41,404		11,291,188
Mexico	s.tons	6		1,265
South Africa	s.tons	38		22,644
Other Crudes & Fibers, Canada	s.tons	3,309		680,762
India	s.tons	5		10,800
Italy	s.tons	2		3,581
South Africa	s.tons	40		26,764
		47,836	$	14,190,639

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	661,778	$	1,115,563
A-C pipes, tubes & fittings	Lb	1,824,990		204,147
Other asbestos-cement articles	Lb	1,044,374		275,234
Other asbestos articles		..		591,536
			$	2,186,480

UNMANUFACTURED ASBESTOS: — **AUGUST 1978**

Amosite	s.tons	..	$	..
Crocidolite (Blue), Canada	s.tons	80		54,216
South Africa	s.tons	2,100		1,291,405
Chrysotile Crudes, Italy	s.tons	17		3,064
South Africa	s.tons	576		364,356
Chrysotile Spinning Fibers, Canada	s.tons	144		114,114
South Africa	s.tons	55		40,662
Chrysotile, Other, Canada	s.tons	52,570		10,934,753
Mexico	s.tons	69		1,238
South Africa	s.tons	20		13,842
Other Crudes & Fibers, Canada	s.tons	2,148		423,557
Italy	s.tons	39		7,003
South Africa	s.tons	77		38,558
		57,895		13,287,768

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	698,565	$	1,198,340
A-C pipes, tubes & fittings	Lb	1,881,634		210,655
Other asbestos-cement articles	Lb	2,050,406		523,544
Other asbestos articles		..		561,534
			$	2,494,073

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U.S. IMPORTS—CONTINUED

JANUARY-AUGUST 1978

UNMANUFACTURED ASBESTOS:

Amosite, Canada	s.tons	20	$ 13,842
South Africa	s.tons	962	509,649
Crodicolite (Blue), Canada	s.tons	80	54,216
South Africa	s.tons	11,601	7,088,236
Chrysotile Crudes, Canada	s.tons	20	13,842
Italy	s.tons	17	3,064
South Africa	s.tons	1,296	822,534
Chrysotile Spinning Fibers, Canada	s.tons	5,100	4,341,258
South Africa	s.tons	55	40,662
Chrysotile, Other, Canada	s.tons	358,947	85,361,392
Mexico	s.tons	150	8,101
South Africa	s.tons	357	237,859
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	12,074	2,516,069
India	s.tons	24	14,939
Italy	s.tons	41	10,584
South Africa	s.tons	1,042	676,954
USSR	s.tons	1,113	324,447
		392,947	$102,066,226

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	6,753,046	$ 11,119,743
A-C pipes, tubes & fittings	Lb	15,014,387	1,730,028
Other asbestos-cement articles	Lb	14,427,437	3,203,756
Other asbestos articles		..	5,107,931
			$ 21,161,458

January-August 1977: U.S. imports of unmanufactured asbestos totaled 405,863 short tons, valued at $99,928,250; imports of manufactured asbestos products were valued at $22,429,923.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

JULY 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	4,162	$ 735,678
Asbestos Sand & Refuse	s.tons	918	252,703
		5,080	$ 988,381

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	931,026	$ 554,027
Asbestos-Cement shingles & clapboard	Lb	1,275,159	277,029
Other asbestos-cement articles	Lb	6,355,924	1,211,903
Asbestos gaskets	Lb	74,112	311,164
Asbestos packing & seals	Lb	542,632	881,889
Asbestos insulation		..	569,025

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U.S. EXPORTS—CONTINUED

Brake linings & disc brake pads	..	4,721,951
Clutch facings & linings	..	602,729
Other asbestos articles	..	1,710,858
		$ 10,840,575

AUGUST 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	2,121	$ 832,104
Asbestos Sand & Refuse	s.tons	1,587	368,253
		3,708	$ 1,200,357

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	357,630	$ 559,708
Asbestos-Cement shingles & clapboard	Lb	1,532,268	336,199
Other asbestos-cement articles	Lb	2,072,634	805,643
Asbestos gaskets	Lb	54,754	179,387
Asbestos packing & seals	Lb	202,227	796,509
Asbestos insulation	..	..	276,897
Brake linings & disc brake pads	..	..	3,203,262
Clutch facings & linings	..	..	822,361
Other asbestos articles	..	..	1,873,214
			$ 8,853,180

JANUARY-AUGUST 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	17,891	$ 5,606,172
Asbestos Sand & Refuse	s.tons	14,040	3,048,866
		31,931	$ 8,655,038

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	6,559,779	$ 4,938,455
Asbestos-Cement shingles & clapboard	Lb	16,641,386	3,762,374
Other asbestos-cement articles	Lb	19,378,027	6,696,112
Asbestos gaskets	Lb	2,821,515	2,380,833
Asbestos packing & seals	Lb	4,285,798	7,518,014
Asbestos insulation	..	..	3,725,322
Brake linings & disc brake pads	..	..	27,653,409
Clutch facings & linings	..	..	7,484,305
Other asbestos articles	..	..	15,159,305
			$ 79,318,129

January-August 1977: U.S. exports of unmanufactured asbestos reached 25,385 short tons, valued at $8,019,549; exports of manufactured asbestos products were valued at $53,669,453.

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EXPORTS FROM CANADA

From: Statistics Canada

MAY 1978

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	521	10,660	11,602
Eastern Europe	..	1,015	4,559	520
Middle East	..	30	368	218
Africa	..	..	..	100
Asia	..	303	7,728	7,964
Oceania	..	..	2,822	18
So. & Cen. America & Antilles	..	76	7,598	4,829
United States	..	706	10,493	35,319
	..	2,651	44,228	60,570

The total amount of unmanufactured asbestos exported in *May 1978* was 107,449 short tons, valued at C$39,576,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 684,000
Asbestos brake linings & facings	262,000
Asbestos-Cement building materials	843,000
Other basic asbestos products	503,000
	$ 2,292,000

JUNE 1978

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	787	23,403	13,608
Eastern Europe	..	120	2,052	..
Middle East	..	50	..	63
Africa	..	..	400	220
Asia	..	182	8,950	8,228
Oceania	..	8	4,862	9
So. & Cen. America & Antilles	..	120	12,241	2,462
United States	..	899	14,613	36,901
	..	2,166	66,521	61,491

The total amount of unmanufactured asbestos exported in *June 1978* was 130,178 short tons, valued at $53,032,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 320,000
Asbestos brake linings & facings	310,000
Asbestos-Cement building materials	737,000
Other basic asbestos products	368,000
	$ 1,735,000

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JANUARY-JUNE 1978

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	3,196	99,053	71,405
Eastern Europe	..	2,320	19,182	1,512
Middle East	..	80	5,908	1,665
Africa	..	6	3,110	540
Asia	..	1,410	45,636	54,187
Oceania	..	10	21,414	1,255
So. & Cen. America & Antilles	..	684	51,757	21,946
United States	..	4,066	66,959	223,170
	..	11,772	313,019	375,680

The total amount of unmanufactured asbestos exported in *January-June 1978* was 700,471 short tons, valued at $258,908,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 1,905,000
Asbestos brake linings & facings	1,601,000
Asbestos-Cement building materials	6,152,000
Other basic asbestos products	2,882,000
	$12,540,000

January-June 1977: Canadian exports of unmanufactured asbestos totaled 809,641 short tons, valued at $277,197,000; exports of manufactured asbestos products were valued at $10,774,000.

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ARIZONA

Per Ton of 2000 Lbs., F.O.B. Globe, Arizona
As of July 1, 1976 — *U.S. Dollars*

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

QUEBEC

Per Ton of 2000 Lbs., F.O.B. Mine
As of January 1, 1978 — *Canadian Dollars*

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

CASSIAR

Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.
As of January 1, 1978 — *Canadian Dollars*

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

VERMONT

Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont
As of January 1, 1978 — *U.S. Dollars*

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

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1978 SEMI-ANNUAL REPORTS

CAPE INDUSTRIES LTD.

Cape Industries Ltd. has reported that Group turnover for the first six months of 1978 amounted to £87.4-million compared with £77.2-million for the corresponding period in 1977. Contributions to the latest turnover figure were 57% by the Building and Insulation Division, 30% by the Automotive and Engineering Division and 13% by the Mining Division. Profit before tax was £5.6-million against £6.7-million. The lower profit figure follows the trend in 1977 when the latter half of the year produced only £5.1-million, having been severely affected by the decline in demand for asbestos fiber. While fiber demand has not shown any marked improvement and profit is correspondingly low, shipments are expected to show an upward trend. Combined with the effects of steps taken to contain expenditure at the mines, an improvement should be reflected in the results for the second half-year 1978. In the United Kingdom, the Building and Insulation Division continued to trade successfully and profits were well ahead of last year. The Automotive and Engineering Division suffered from a lack of demand for its products in the U.K. and from some interruptions in production because of labor problems. The interim dividend will be increased 10% to 3.1948 pence per share, payable January 3, 1979, to shareholders on record November 3, 1978.

GAF CORPORATION

It was reported by *GAF Corporation* that earnings from continuing operations for the first half of 1978 were $13-million or 84¢ per share on sales of $521.7-million, compared with first half 1977 earnings of $13.6-million or 89¢ per share on sales of $457-million. During the latest six-month period, GAF's three worldwide sales groups showed sales increases, i.e., Chemical sales were $122.2-million, Photo & Repro achieved sales of $147.3-million and Building Materials had $252.2-million in sales. Based on recent stock prices of GAF shares (about $14.00 for common stock and $18.00 for preferred), dividend yield was 4.6% for common and 6.7% for preferred. The company's common and preferred stock is owned by 69,675 shareholders of record. An analysis of stockholdings shows there are 21,659 individual male stockholders, 20,101 joint tenancies and 16,945 female holders. . . . GAF completed the sale of its felts and filters business on August 1, 1978, to The American Felt and Filter Company for approximately $10-million. The sale included major assets of plants located at Glenville and Staffordville, Connecticut; Newburgh, New York; Warren, Michigan; and Westerly, Rhode Island.

TURNER & NEWALL LTD.

Although some improvement in demand was evident toward the end of the first six months of 1978, *Turner & Newall Ltd.* reported that Group profit before taxation, at £21.5-million, was £1.7-million less than in the

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same period a year earlier. Group sales totaled £194-million to companies in the United Kingdom, up 20%; $22-million to other European firms, up 93%; $88-million to other overseas companies, up 68%; $32-million within the T&N Group, up 9%; and $271-million to third parties, up 39%. Profit after taxation reached $12-million, down 21% from the corresponding period in 1977. Companies manufacturing construction materials overseas, particularly in Nigeria, earned lower trading profits in comparison with last year and profits of the mining companies were below those in the first half of 1977, reflecting the current weakness in the asbestos fiber market. Automotive components' results improved, and there are signs that demand for most of the Group's U.K. products is slowly on the upswing. Although conditions are very difficult in Nigeria, prospects are promising in the United States and satisfactory elsewhere in the world. . . . The T&N Board declared an interim dividend of 4.5 pence net per unit of stock, payable November 24, 1978, to stockholders on the register October 27, 1978. The Directors expect to recommend total dividends of 11.5 pence net per stock unit for the year ending December 31, 1978.

ASBESTOS STOCK QUOTATIONS

Close—October 17, 1978

Abitibi Asbestos	C$.85
Advocate Mines	C$3.00
Armstrong Cork	19½
Armst. Cork (pfd 3.75)	45½
Asarco	15⅝
Asbestos Corporation	C$47.50
Bendix	39⅜
Bendix (pfd 3)	80
Carlisle	26⅞
Cassiar Asbestos	C$10.00
CertainTeed	21
Charter Conso.	pence 152
Colt Industries	36⅝
Colt Ind. (pfd 1.60)	29¾
Colt Ind. (pfd 4.25)	80½
Conwest	C$5.50
Flintkote	31
F-kote (pfd-B 2.25)	40½
GAF Corporation	13
GAF (pfd 1.20)	18⅛
Gulf & Western	13¾
G&W (pfd 2.50)	32½
G&W (pfd 3.87)	69¾
G&W (pfd 5.75)	70
IC Industries	26¾
IC Ind (pfd 3.50)	46⅝
Jim Walter Corporation	31⅝
Jim Walter (pfd1)	10¾
Jim Walter (pfd 1.60)	33¼
Johns-Manville	31½
Kennecott Copper	26¼
Lear Siegler	20¼
Lear Siegler (pfd 2.25)	50
Maremont	24
McAdam Mining	C$.285
National Gypsum	18¼
Pathfinder	C$.37
Porter (pfd 5.50)	79
Raybestos-Manhattan	33½
Rio Algom	C$37.00
Supradur	Bid 5; Asked 5¾
Union Carbide	39¼
Woodsreef Minerals	C$.43

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MEN ON THE MOVE

ASSOCIATION OF ENGINEERS & ARCHITECTS IN ISRAEL

Uriel Stock, a construction engineer, was elected Chairman of the Association of Engineers & Architects in Israel, succeeding the late *Elhanan Pelles*. *Shimon Powsner*, an architect, was named Honorary Treasurer.

COMBUSTION ENGINEERING, INC.

John E. Watson was appointed Director of the C-E Process Equipment Development Laboratory, succeeding *Michael T. Charters*, deceased. Mr. Watson joined C-E Bauer in 1975. . . . *Clinton H. Gilkey* succeeded Mr. Watson as Vice President-Engineering for C-E Bauer. He joined C-E in 1965 as an engineer.

THE INSTITUTION OF MINING AND METALLURGY

Dr. D. A. Temple was elected President of The Institution of Mining and Metallurgy for the 1979-80 session, in succession to *Professor R. N. Pryor*. Dr. Temple is Chief Executive of Imperial Smelting Processes Ltd. and a Director of RTZ Consultants Ltd.

LAWLOR DISTRIBUTORS, INC.

Lawlor Distributors, Inc., announced the appointment of *William Ibsen* to its staff. Prior to joining the firm, Mr. Ibsen was associated with the Columbian Division of Cities Service Company. Lawlor Distributors serves the coatings, plastic and rubber industries and represents Lake Asbestos of Quebec Ltd. in the State of Ohio.

H. K. PORTER COMPANY, INC.

Walter Max Sleeth has been named General Manager for Friction Products, Thermoid Division, H. K. Porter Company, Inc. He had been Division President of the Royal Brake Products Division of L.S.I. . . . *Richard H. Hartman* is now General Sales Manager for Friction Products. He will be based at the Amco Works at Huntington, Indiana. Past associations were with Lucas Industries, Chrysler Corporation, Tenneco, Inc., and General Motors. . . . *Donald R. Himes* was appointed Sales Representative, Chanute Works, Kansas. He was formerly with Acme Hamilton Manufacturing Company and U.S.A. Chemicals. . . . *George M. Chorosiewski*, previously with Acme Hamilton, was named Sales Representative for Aeroduct flexible ducting products, Northeastern Region.

SUPRADUR MANUFACTURING CORPORATION

William J. Mercer was honored by Supradur Manufacturing Corporation at a retirement party in September 1978. He had represented the company in the sale of its mineral fiber roofing and siding in the Pennsylvania and Southern New Jersey territories for nearly 30 years. The area previously covered by Mr. Mercer is now served by *Martin Musumeci* in Eastern Pennsylvania and by *William Haff* in Southern New Jersey.

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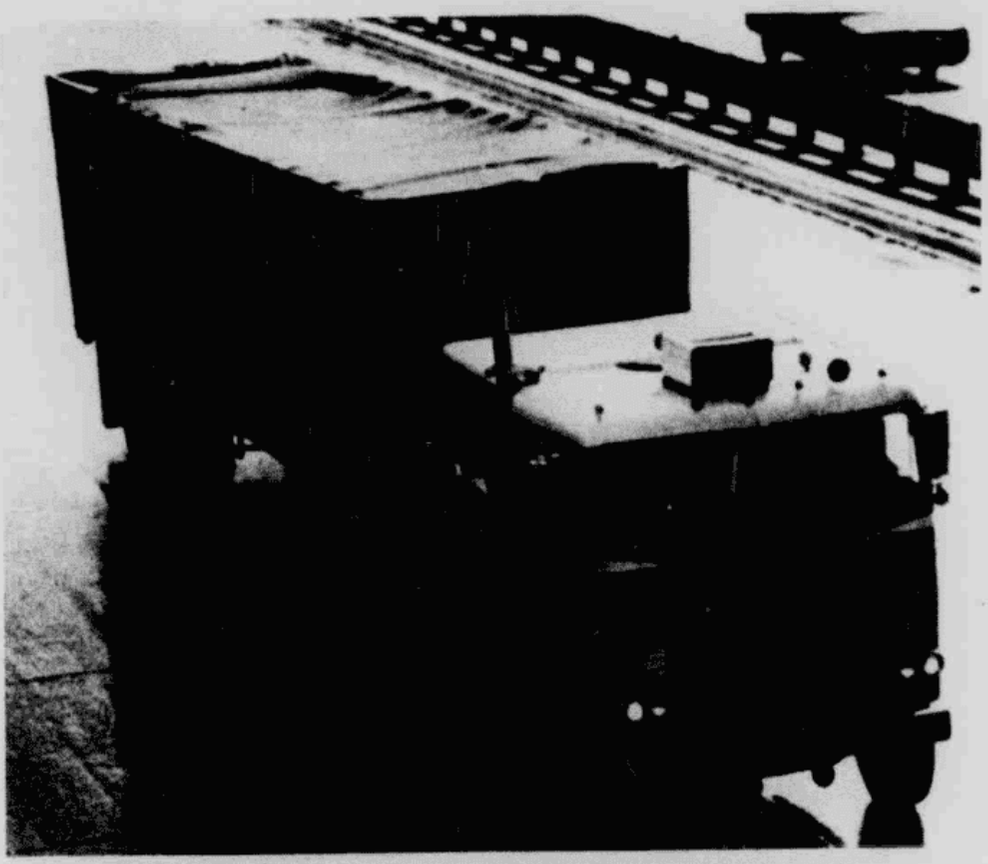
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BIRTHDAY GREETINGS to . . .

Morris J. Baty, a Director, BBA Group Ltd., Cleckheaton, West Yorkshire, England, December 15.
Faustin J. Solon, Jr., Vice President-Corporate Relations, Johns-Manville Corporation, Denver, Colorado, December 18.
S. Kuchinski, General Mill Foreman, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, December 20.
Dr. Stephen Holmes, Consultant, TBA Industrial Products Ltd., Rochdale, Lancashire, England, December 23.
A. W. G. Gibb, General Traffic Manager, Asbestos Corporation Ltd., Montreal, Quebec, December 25.
J. C. McKendry, Jr., Vice President, Niagara Insulations Company, Buffalo, New York, December 27.
J. B. Reid, Chairman, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, December 27.
William J. Barkell, Vice President-Sales, A & M Insulation Company, Chicago, Illinois, December 28.
P. Osborne, Managing Director, Don International Ltd., Manchester, England, December 28.
William B. Hoffman, Vice President-Manufacturing, Gold Bond Building Products, National Gypsum Company, Buffalo, New York, December 29.
F. P. Parkes, Chief Executive, Automotive and Engineering Division and a Director, Cape Industries Ltd., London, England, December 29.
Noel W. Hendry, General Manager, Mining Division, Johns-Manville Corporation, Denver, Colorado, January 2.
Joseph A. Munder, Jr., Mid-West Regional Manager, Carey-Canadian Mines Ltd., Plano, Illinois, January 2.
William H. Price, President, Garlock of Canada Ltd., Toronto, Ontario, January 2.
Hugh R. Snyder, President, Brinco Ltd., Mississauga, Ontario, January 2.
Octave Mousseau, Vice President and Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, January 3.
Edmund M. Fenner, Director-Technical Relations, Environmental Affairs Department, Johns-Manville Corporation, Denver, Colorado, January 4.
N. Venkataraman, Managing Director, Hindustan Ferodo Ltd., Ghatkopar, Bombay, India, January 4.
Charles L. Horst, Plant Manager, Norristown Plant, Nicolet Inc., Ambler, Pennsylvania, January 5.
Maurice E. Taschereau, President and Chief Executive Officer, Asbestos Corporation Ltd., Montreal, Quebec, January 5.
Lawrence B. Row, Vice President-Materials and Sales Services, RM Friction Materials Company, Trumbull, Connecticut, January 7.
A. P. Higgins, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, January 10.
Alan R. Dennis, Vice President and Fibre Division Controller, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, January 11.
J. A. Kerns, Sales Manager, Original Equipment Division, RM Friction Materials Company, Trumbull, Connecticut, January 12.
Alexander Smith, Vice President-Sales, Southern Asbestos Company, Charlotte, North Carolina, January 13.

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VALUABLE LITERATURE

ORDERS FOR THE FOLLOWING BOOKS MAY BE PLACED THROUGH ASBESTOS MAGAZINE, UNLESS OTHERWISE NOTED. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY NOVEMBER 1978 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

WASHINGTON INFORMATION WORKBOOK—Directs the reader to major Federal departments and agencies and identifies the prime information sources available to the reader; shows there is an abundance of data obtainable to aid in decision making and that the information is free or costs little; covers sources on Capitol Hill and at Statistical Center, the U.S. Library of Congress and the Departments of Agriculture, Commerce, Labor, Interior, Transportation and the Treasury; relates where to secure information for investigating companies, industries and technologies; provides hints for using the Freedom of Information Act and for selling to the government. [$35.00; 170 pages; Washington Researchers; order through ASBESTOS]

NOISE CONTROL IN THE WORKPLACE—Comprehensive guide to such aspects of the noise problem as noise control techniques and emerging technologies, health laws and regulations and cost implications and penalties; the seven chapters and appendix of the manual are concerned with noise levels (acceptability criteria and measuring), developing a noise control program, practical methods for solving noise problems including selected industrial case histories, significant legal opinion involving industrial noise, selecting and using a consultant, federal regulation of workplace noise and the economic impact of noise control. [$18.75 per copy; The Center for Compliance Information; order through ASBESTOS]

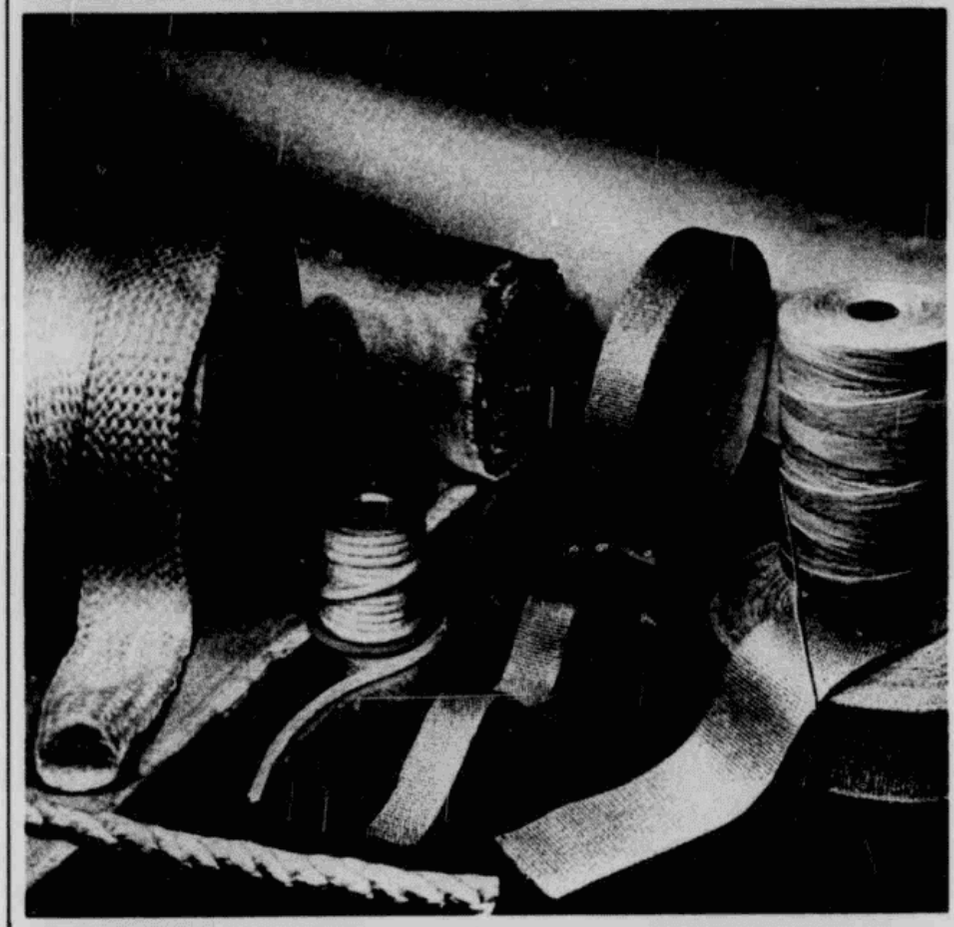
MINING IN CANADA/FACTS & FIGURES, 1978—Presents a broad overview of the entire Canadian mineral industry including those sectors represented nationally by associations; contains statistical summaries by Province and by mineral class, i.e., metals, non-metals, structural materials and fossil fuels; covers exploration, production and exports, mining communities, employment, transportation, research and development, taxes and environmental control. [Free copies available in English or French; 59 pages; order from The Mining Association of Canada, 20 Toronto Street, Toronto, Ontario M5C 2C2, Canada]

NICA 1978 MEMBERSHIP DIRECTORY—Listing of the nearly 500 members of the National Insulation Contractors Association; these members compose a major part of the multi-million dollar industry which produces and installs thermal insulation in industrial and commercial facilities; the scope of the members' current contracts includes air pollution facilities, ships, factories, office buildings, commercial complexes, food processing facilities, hospitals, government building, petrochemical plants and fossil and nuclear power plants. [Single copies available free from NICA, 1120 19th Street N.W., Washington, D. C. 20036]

SOURCEBOOK ON THE ENVIRONMENT—Guide to literature edited by K. A. Hammond, G. Macinko and W. B. Fairchild; provides an objective and detailed guide to environmental studies; 26 specialists have compiled and critically annotated commentaries on the sources, treating a broad spectrum of crucial issues ranging from resource scarcity to the environmental

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impact of urbanization. [$22.00 per copy; 614 pages; The University of Chicago Press; order through ASBESTOS]

METRIC EDITORIAL GUIDE, 3RD EDITION—Updated and expanded to include the latest metric practice recommendations for representing SI metric symbols and terms with a typewriter, conversion and rounding and acceptable units for pressure; designed to help use the metric system correctly in written materials. [$1.75 per copy; 18 pages; order from the American National Metric Council, 1625 Massachusetts Avenue N.W., Washington, D. C. 20036]

METRICATION: WHAT NEEDS TO BE DONE—Outlines how the American National Metric Council perceives its relationship with the U.S. Metric Board and how the two organizations can best work together to address the major issues of U.S. metrication; some of the issues covered in the booklet are the role of the private sector, the need to establish a consensus process for conversion planning and the necessity of anti-trust protection. [$2.50 per copy; 24 pages; order from ANMC, 1625 Massachusetts Avenue, N.W., Washington, D. C. 20036]

PLANNING FOR PRACTICAL METRIC PACKAGING—Provides guidelines for metric packaging and labeling; covers all aspects of metric packaging from determining rational metric sizes to providing the necessary data to consumers; reviews experiences in other countries and provides specific guidelines for manufacturers, packagers, retailers, advertisers, government agencies, consumer organizations and the media. [$1.00 per copy; order from ANMC, 1625 Massachusetts Avenue N.W., Washington, D. C. 20036]

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

CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [C$25.00 per copy; place orders with the Quebec Asbestos Mining Association, 580 Grande-Allee est, Suite 320, Quebec City, Quebec G1R 2K2, Canada]

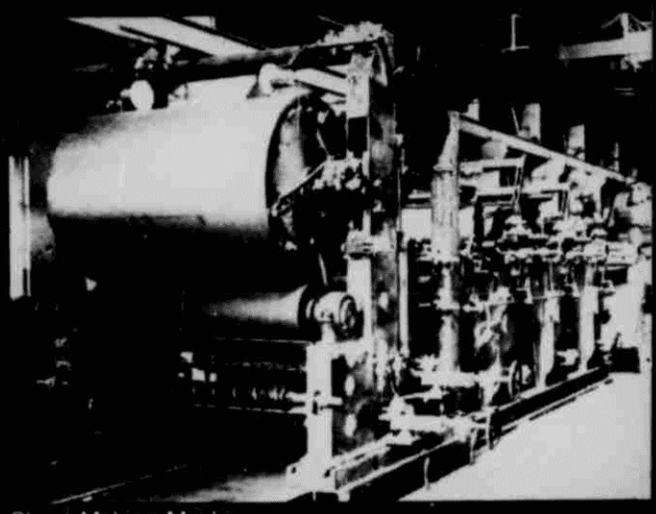
ASBESTOS/A REMARKABLE MINERAL FIBER—Reference book on asbestos by Marion S. Badollet; presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and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

Asbestos Magazine, 1978, November 1978
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Complete Plants for making ASBESTOS CEMENT PRESSURE PIPES, 4-and 5 Meter, Diameters up to 1500 mm, Maturing Kilns, Automatic Lathes and Presses

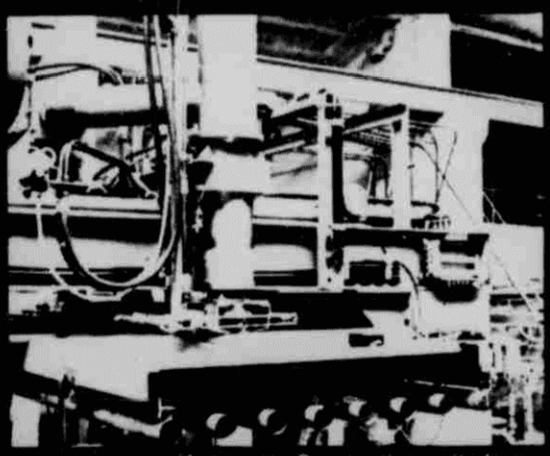
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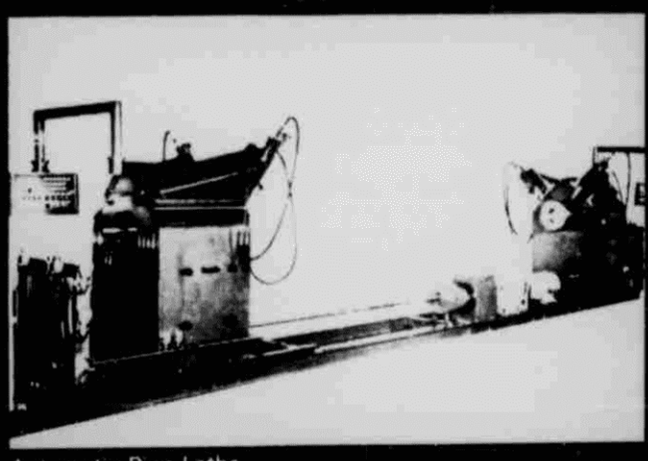


Sheet Making Machine

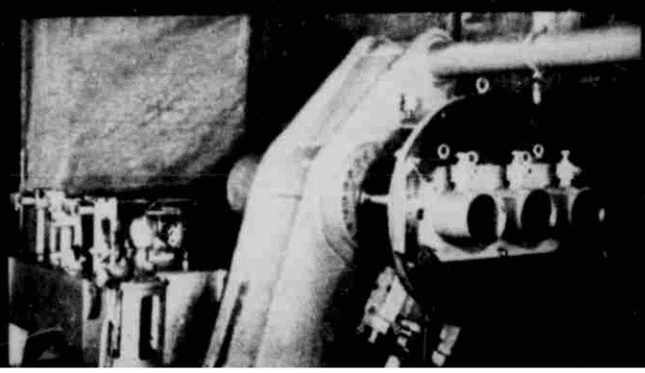
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Automatic Corrugating unit shown without it's Plastic rug



Automatic Pipe Lathe



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NEW ASBESTOS PATENTS

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

Canadian 1,032,563—In the manufacture of low-density asbestos sheets of improved water resistance, the usual aqueous slurry of Portland cement, asbestos, cellulose fibers and inorganic fillers is blended with 2%-10% by weight of an asphalt emulsion in which the asphalt phase has a softening point of at least 150°F and is dispersed in water in globules all smaller than 10 microns in e.s.d. (this patent is essentially the same as U.S. Patent No. 3,985,610 dated October 12, 1976); R. C. Pomerlin & R. M. Johnson; assigned to National Gypsum Company, June 6, 1978; 10 pages.

Canadian 1,032,894—In the manufacture of a long-lived chlorine cell diaphragm a fibrous mat of asbestos fibers and alkali metal and hydroxyl ions is heated to displace magnesium ions from the surfaces of the fibers and form an alkali metal silicate layer which upon contact with the acid anolyte forms a dense, uniform silica layer on the surfaces of the fibers (this patent is essentially the same as British Patent No. 1,490,220 dated October 26, 1977); R. T. Foster, W. B. Darlington & M. Korach; assigned to PPG Industries, Inc., June 13, 1978; 26 pages.

U.S. 4,093,533—A highly acid-resistant diaphragm for use in electrolytic chlor-alkali cells is fabricated from (1) a mixture of 33%-75% by weight of the total asbestos of Crocidolite and 25%-67% of Chrysotile and (2) polyvinylidene fluoride, polytetrafluoroethylene or comparable polymeric fluorocarbon; the slurry of mixed asbestos fibers is vacuum-drawn on the desired cathode structure; R. N. Beaver & C. W. Becker; assigned to The Dow Chemical Company, June 6, 1978; 4 pages.

U.S. 4,101,494—A tire sealing and balancing compound comprises 2%-8% of a mixure of asbestos and glass fibers, a small amount of diethylene glycol and the remainder an aqueous solution of hydrolyzed polyvinyl acetate; J. B. Kent & P. O. Augustini; assigned to Wobaco Trust Ltd., July 18, 1978; 4 pages.

U.S. 4,115,991—In the production of asbestos yarn, an aqueous dispersion of Chrysotile asbestos, a fatty acid soap and an excess of a fatty acid is flowed downwardly along with cold water to cause gelling, the gelled strand formed into a coherent strand which is not heat-redispersible and the strand heated to dry it and extract residues of the soap and fatty acid; A. N. Magnall, P. H. Taylor & F. Roberts; assigned to TBA Industrial Products Ltd., September 26, 1978; 6 pages.

MINERAL EXPLORATION, MINING AND PROCESSING PATENTS, 1977—14th Annual Edition by Oliver S. North; is a subject-classified, fully-indexed volume of abstracts of pertinent 1977 patent literature; 663 abstracts cover substantially all of the significant United States, Canadian and British patents issued in 1977 on exploration for and mining, beneficiation and concentration of metallic and nonmetallic minerals, extraction of metals from ores and refining of metals extracted from ores. [$30.00 per copy; order through ASBESTOS or from the author]

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CALENDAR OF EVENTS

ASBESTOS ASSOCIATED DISEASE WITH PARTICULAR REFERENCE TO U.S. SHIPYARDS—Course by The Mount Sinai Medical Center; New York City, *November 27-29.*

PERFORMANCE REMANUFACTURING: WASTE REDUCTION, ENERGY AND MATERIALS CONSERVATION THROUGH REMANUFACTURING—Forum sponsored by the U.S. National Bureau of Standards and the U.S. Department of Energy; NBS Laboratories, Gaithersburg, Maryland, *November 28-29.*

STATISTICALLY DESIGNED EXPERIMENTATION—Institute on process, product and material engineering, on quality and reliability engineering, and on scientific research; presented by The University of Connecticut and The American Society for Quality Control; Storrs, Connecticut, *December 3-8.*

COMMODITY REGULATION 1978—Program of the New York Law Journal; will include an in-depth examination of significant regulatory and legislative developments including the amended Commodity Exchange Act and enforcement actions by the Commodity Futures Trading Commission; Shoreham Americana Hotel, Washington, D. C., *December 4-5.*

TOXIC SUBSTANCES CONTROL AND HAZARDOUS WASTES—3rd Annual Conference and Seminar of Government Institutes, Inc.; topics will include developments in the science field and at the U.S. Environmental Protection Agency, the U.S. Occupational Safety and Health Administration and the U.S. Food and Drug Administration; also to be examined are the role of the U.S. States in enforcement and transportation problems; Shoreham Americana Hotel, Washington, D. C., *December 4-6.*

WASTE HEAT MANAGEMENT AND UTILIZATION—Seminar of the University of Miami; Miami Beach, Florida, *December 4-6.*

DESIGN ENGINEERING—International Show and Conference produced by Clapp & Poliak, Inc.; National Exhibition Centre, Birmingham, England, *December 4-8.*

DESIGN ENGINEERING—Western Show and Conference produced by Clapp & Poliak, Inc.; Convention Center, Anaheim, California, *December 5-7.*

AUDIOMETRICS IN INDUSTRY—Refresher and Training Courses for industrial technicians; Atlanta, Georgia, *December 6-7.*

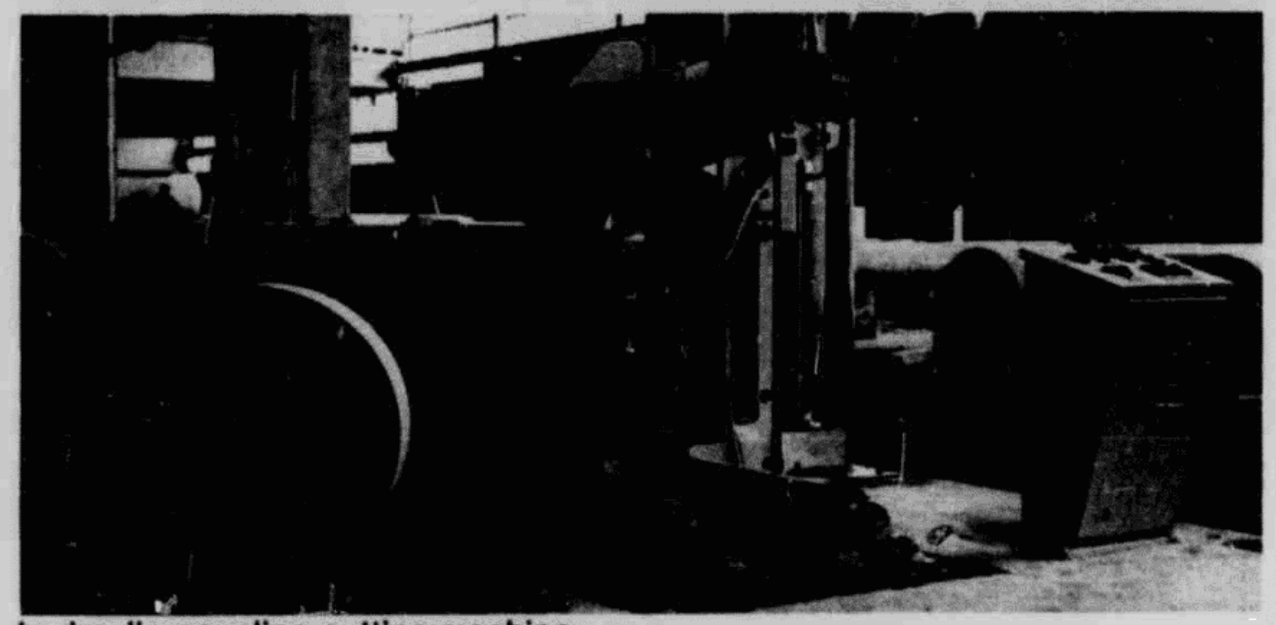
PATENT ANTITRUST—Workshop of the Practising Law Institute and the Houston Bar Association; *December 7-8* at New York City; *December 14-15* at Houston, Texas.

NAVY OCCUPATIONAL HEALTH—21st Workshop and Seminar of the U.S. Navy Environmental Health Center; Virginia Beach, Virginia, *December 8-15.*

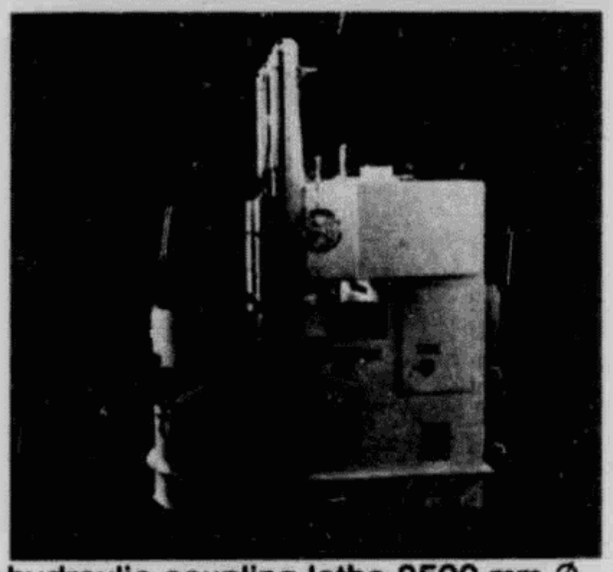
NEW CONCEPTS OF OCCUPATIONAL MEDICINE UNDER OSHA—Course for plant medical directors and physicians with part-time industrial affiliation; co-sponsored by the Industrial Health Foundation and the University of Pittsburgh School of Medicine; Orlando, Florida, *December 11-14.*

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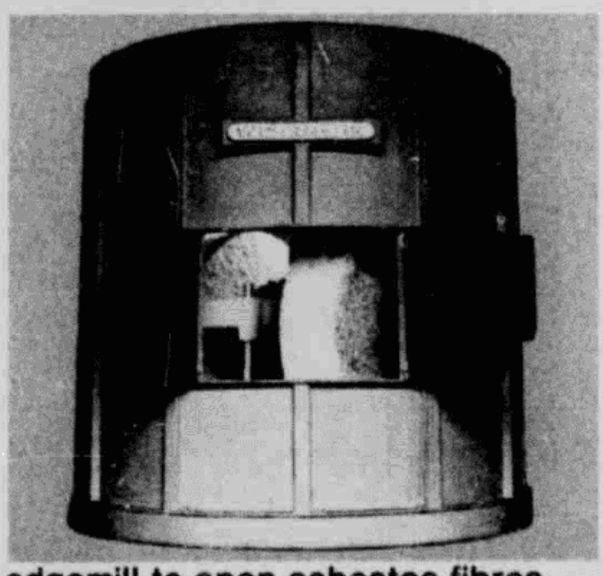
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INTRODUCTION TO INDUSTRIAL HYGIENE: A PROFESSIONAL APPROACH—Course of the Institute for Continuing Education, American Industrial Hygiene Association; *December 11-15* at Pompano Beach, Florida; *January 8-12* at Denver, Colorado; *February 19-23* at Las Vegas, Nevada.

ECONOMIC ANALYSIS FOR MINE OPERATORS—Professional Development Seminar of McGill University; Montreal, Quebec, *December 11-14.*

ECONOMICAL DEVELOPMENT OF SUBSURFACE SPACE BY MODERN MINING TECHNIQUES—Short Course of the Mackay School of Mines; University of Nevada, Reno, Nevada, *January 8-10.*

PERSPECTIVES ON FINANCIAL DECISIONS AND RISK IN THE MINERAL INDUSTRY—Short Course of the Mackay School of Mines; University of Nevada, Reno, Nevada, *January 11-13.*

UNION-MANAGEMENT-EMPLOYEE RELATIONS IN THE MINERAL INDUSTRY—A Professional Development Seminar of McGill University; Montreal, Quebec, *January 29-31.*

MINING AND EXPLORATION—Australia's International Exhibition organized by Thomson Exhibitions; R.A.S. Showground, Sydney, Australia, *February 12-17.*

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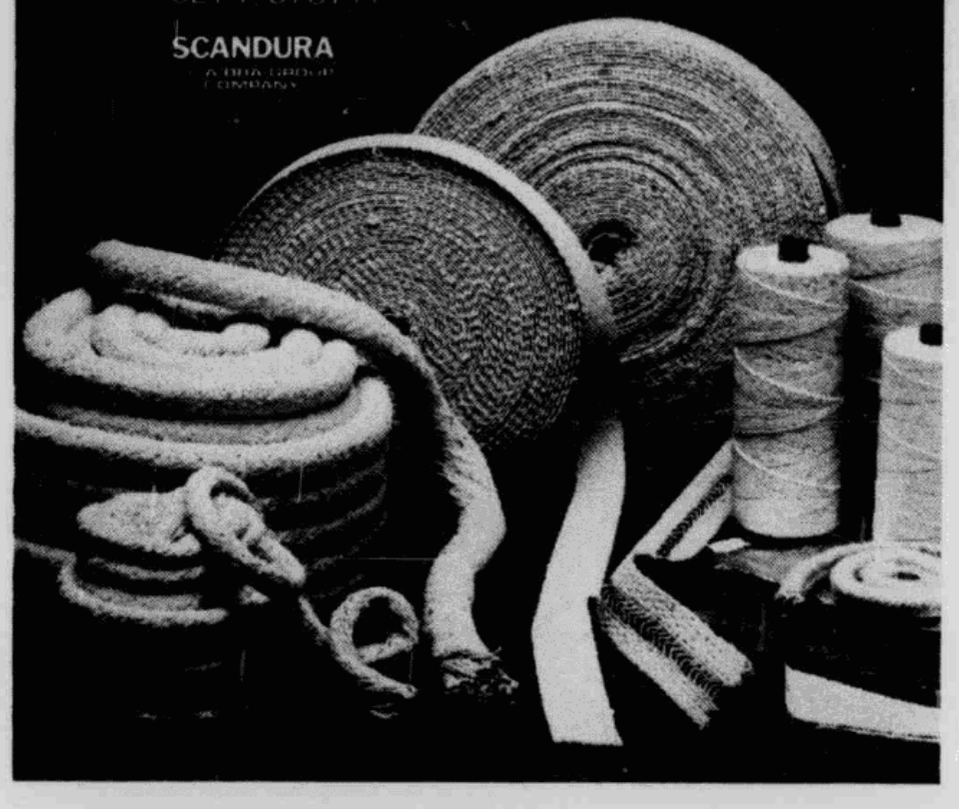
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Remember When?

(October 1928 ASBESTOS)

The lead article in this issue concerned the discovery and early history of Amosite asbestos in the Transvaal district of the Union of South Africa. It was noted that despite the surging activity in connection with asbestos mining in the area, the only serious work was being performed on the three mines then owned by The Cape Asbestos Company Ltd. which was then producing a total of from 450 to 600 tons of Amosite per month.

Several comments were made concerning the rapidly increasing production and use of molded brake linings for automotive use. Asbestos textile manufacturers expressed great concern at the potential threat to the then widely used woven linings.

Paraffine Companies, Inc., of San Francisco, California, announced its purchase of the Plant Rubber & Asbestos Works, also of that city. Paraffine was a maker of linoleum and Plant was a producer of asbestos and magnesia insulating materials and asbestos-based packings.

It was reported that the Flintkote Company, Boston, Massachusetts, had entered into a working arrangement with the Royal Dutch Shell Group covering exchange of technical information pertaining to asphalt, asphalt emulsions and asphalt shingles and roofing.

(November 1928 ASBESTOS)

New Advertiser: Societa Italo Russa Per L'Amianto.

This issue contained a lengthy discussion of the growing use of sound control in modern buildings. The use of asbestos as a component of various architectural acoustic materials, because of its acoustical and fireproofing characteristics, was noted.

Preliminary announcement was made of the amalgamation of Turner Brothers Asbestos Company and Bell's United Asbestos Company, resulting in the largest asbestos concern in the world at that time.

R. Wild, a pioneer in the asbestos textile industry in the U.S., resigned his position with the United States Asbestos Company, Manheim, Pennsylvania, and became associated with the Union Asbestos & Rubber Company, of Chicago, Illinois.

Philip Carey Mfg. Company, Cincinnati, announced it would construct, at its Lockland, Ohio, works, a boiler and power plant designed to operate at 1,800 lb. steam pressure. This would be the highest steam pressure ever used in the United States and the plant would be the largest ultra-high-pressure steam plant in the world. An additional unique feature was the fact that the prime movers were to be reciprocating engines rather than steam turbines.

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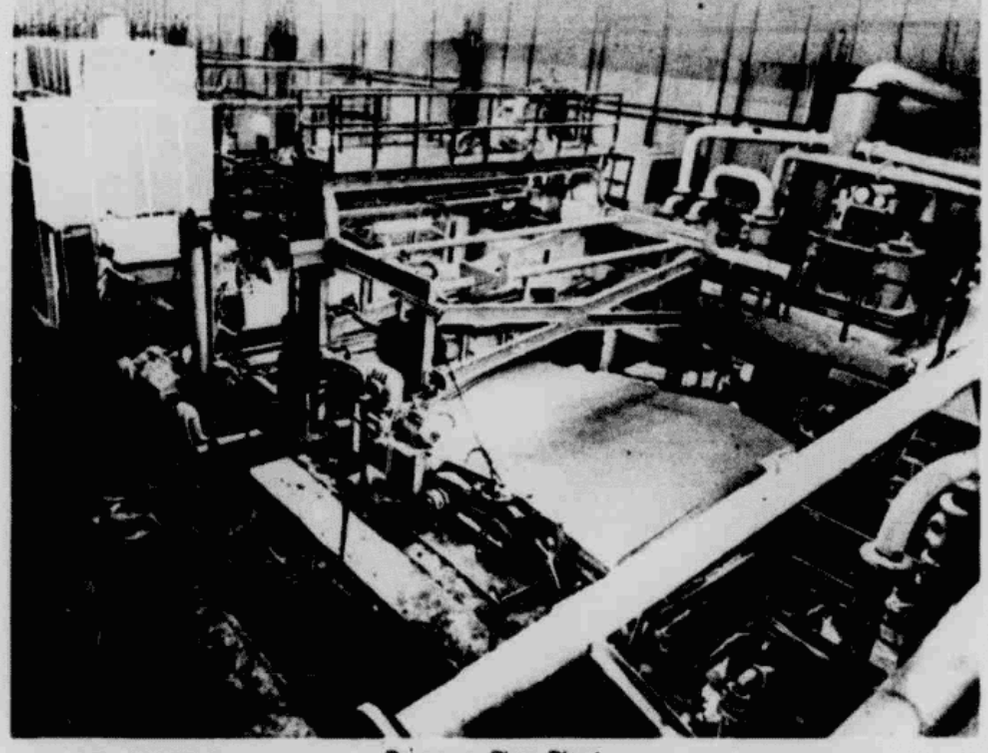
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(Required by 39 U.S.C. 3685)

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3. FREQUENCY OF ISSUE: Monthly	A. NO. OF ISSUES PUBLISHED ANNUALLY: Twelve; B. ANNUAL SUBSCRIPTION PRICE: US--$5.00

4. LOCATION OF KNOWN OFFICE OF PUBLICATION *(Street, City, County, State and ZIP Code) (Not printers)*: 131 North York Road, Willow Grove, Pennsylvania 19090

5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS *(Not printers)*:

6. NAMES AND COMPLETE ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR

PUBLISHER *(Name and Address)*: Stover Publishing Company, 131 North York Road, Willow Grove, Pennsylvania 19090

EDITOR *(Name and Address)*: D. M. Fagan, 407 Winner Road, Hatboro, Pennsylvania 19040

MANAGING EDITOR *(Name and Address)*: Same as Editor

7. OWNER *(If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stock holders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)*

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NAME	ADDRESS
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PS Form 3526 Apr. 1976 *(Page 1)* (See instructions on reverse)



We're betting $77 million on the future of Asbestos. And that's just a beginning!

A Johns-Manville 3-stage, 5-year plan to develop its facilities at Asbestos, Quebec, will insure an annual output of 700,000 short tons of asbestos over the next 20 years and an additional 20 years at an annual rate of 500,000 to 600,000 tons.

Vital as this commitment is, it is only part of what's needed to insure the future of our industry. The truth about asbestos must be told — factually, widely, and repeatedly.

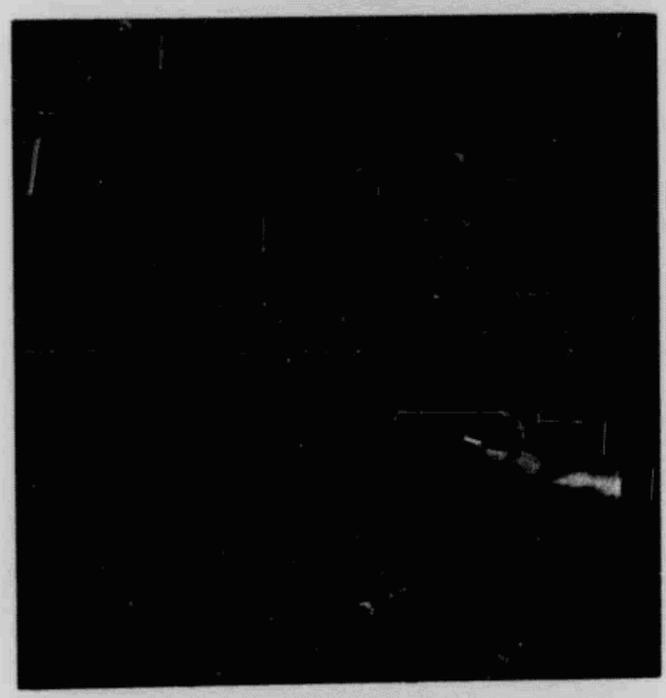
That's why we're investing heavily in a full-scale program of advertising appearing regularly in *Business Week*. The ads are full pages, in four color. And while the advertising investment is not nearly as large as that committed to our plant, it is in many ways just as important.

Do we believe in the future of asbestos? $77 million says we do.

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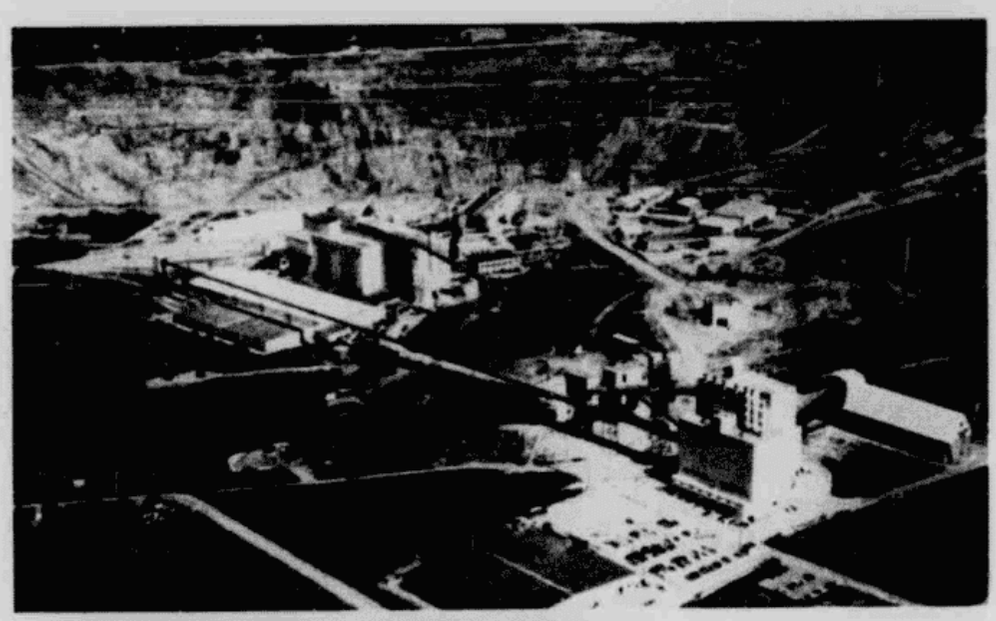
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ASBESTOS

ANNUAL INTERNATIONAL REVIEW—1978
PART I: THE ECONOMY & OTHER MATTERS
PART II: ASBESTOS MINING INDUSTRY

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