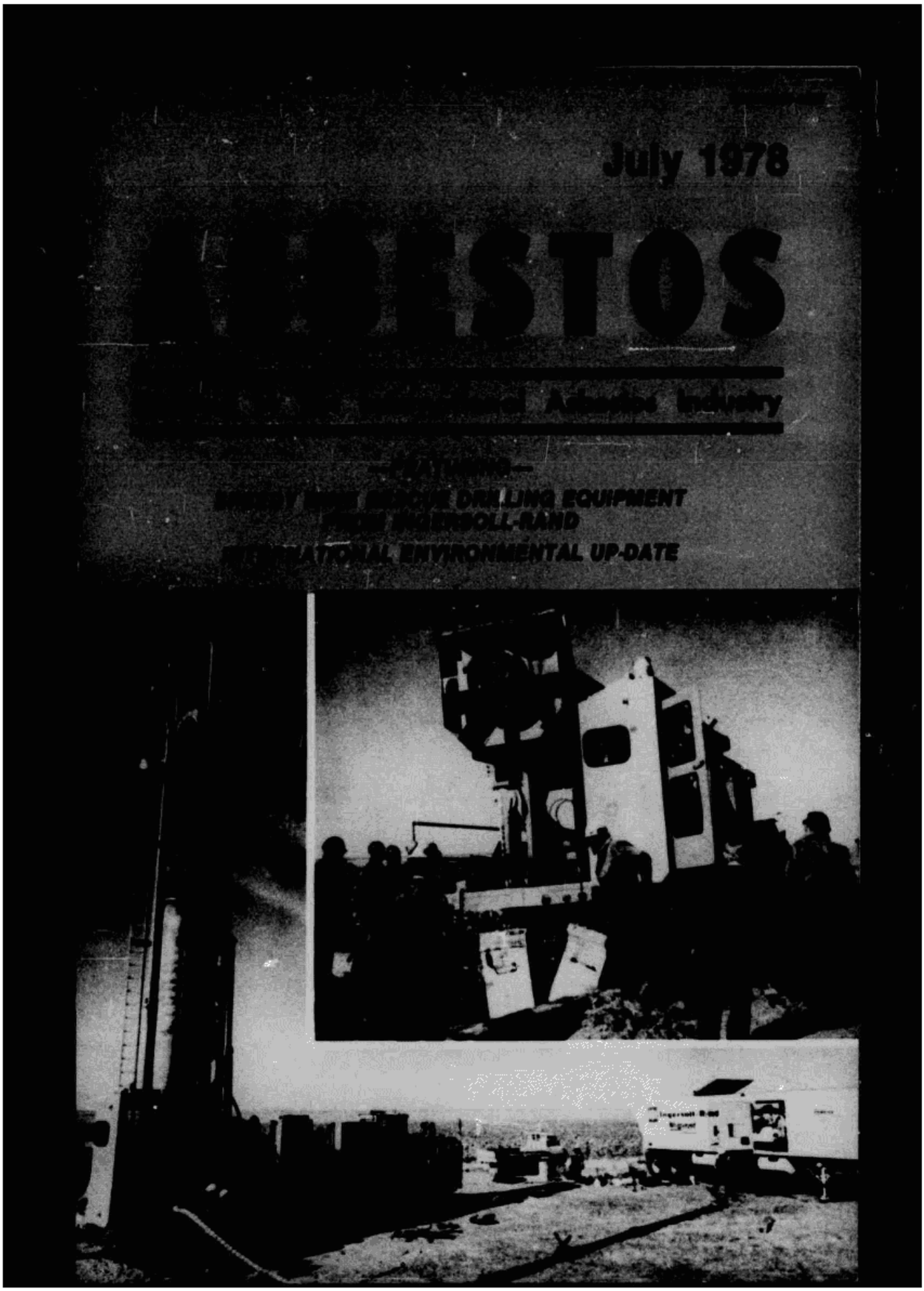

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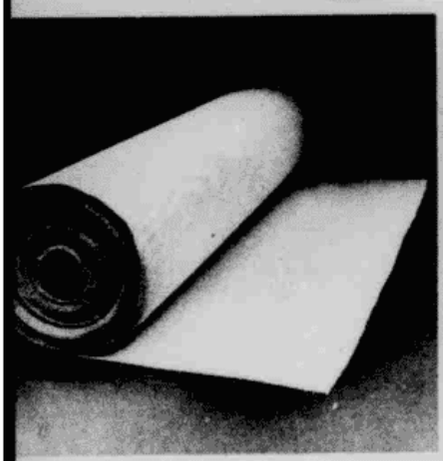
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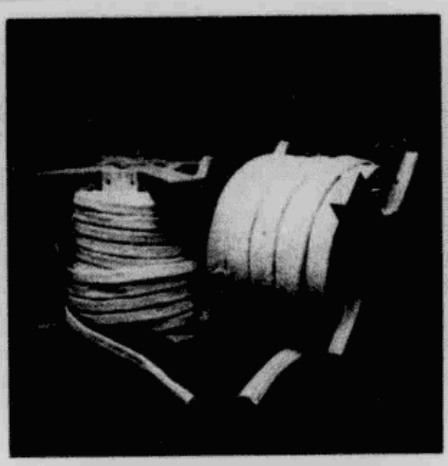
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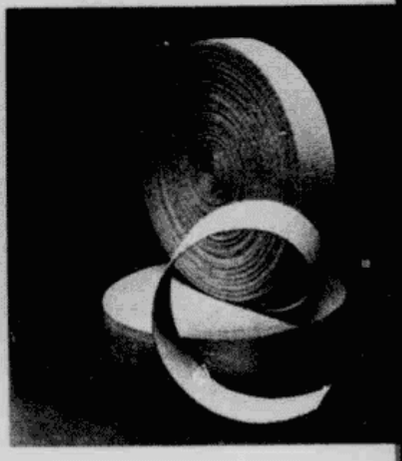
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ASBESTOS

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CONTENTS

INNOVATIONS IN THE MINING INDUSTRY 4
THE COVER 4
QUEBEC OFFICIAL DISCUSSES ASBESTOS POLICY 10
ATI HONORS BRINK & LECLERC 12
MARKET CONDITIONS: GENERAL BUSINESS 14
ASBESTOS FIBER 15
THE INTERNATIONAL ENVIRONMENTAL MAZE 16
PRODUCTION—IMPORTS—EXPORTS 30
1977 ANNUAL REPORTS: CAPE INDUSTRIES; H. K. PORTER; SUPRADUR MANUFACTURING 34
ASBESTOS STOCK QUOTATIONS 40
MEN ON THE MOVE 42
P. E. LECLERC RETIRES FROM ASBESTOS CORPORATION 44
ASSOCIATIONS ELECT NEW OFFICERS 44
BIRTHDAY GREETINGS 46
VALUABLE LITERATURE 48
NEW ASBESTOS PATENTS 50
CALENDAR OF EVENTS 52
REMEMBER WHEN? 54

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INNOVATIONS IN THE MINING INDUSTRY

FASTEST MINE RESCUE DRILLING

About a year ago an entire new era in underground mine rescue technology was opened at a coal mine near Grootvlei, about 75 miles southeast of Johannesburg, Republic of South Africa. There, what is probably the world's most advanced mine rescue drill was tested and proven better than originally expected. For eight days, emergency rescue crews of *Colliery Training College* (an institution of the *Chamber of Mines of South Africa*), assisted by the *Ingersoll-Rand Company*, bored two deep holes from the surface in unprecedented speed through what is known as dolerite or diabase, an unusually hard igneous rock (60,000 psi compressive strength) which has frustrated all previous efforts to drill through it rapidly. One of the holes was a small probe hole; the other a human-sized rescue shaft.

The probe hole was drilled some 640 feet in just 24 hours, using an Ingersoll-Rand T-4W Drillmaster equipped with an I-R downhole percussion drill 6½" in diameter. Probe holes are needed in underground emergencies to locate trapped miners and to provide a means to sustain them with supplies of air, water, food, blankets and medical supplies until they can be reached and evacuated.

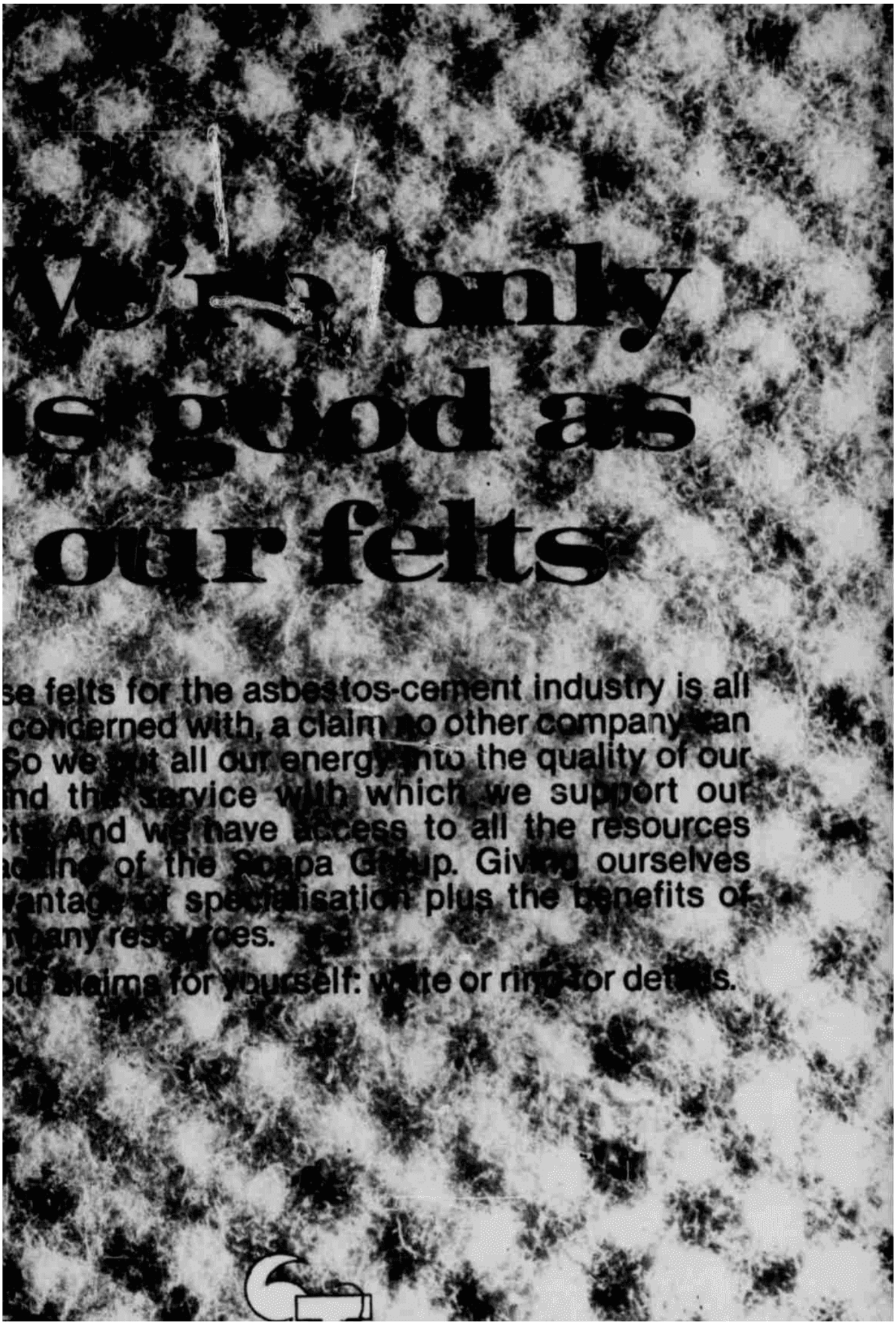
Following the probe the large rescue shaft was completed to a depth of 700 feet in five days of drilling around-the-clock. Two crews, working twelve-hour shifts, operated the I-R T5-DH Drillmaster—a deep-hole mobile drill rig with 140,000-pound static pullback power. On the rig was mounted the world's largest downhole drill, the I-R DHD-130. This combination achieved penetration rates averaging 17.2 feet per hour overall. Final. shaft diameter was 25" after the first 60 feet of material was drilled at 30" diameter through overburden and lined with steel casing to preserve hole integrity.

In the tests the role of Ingersoll-Rand was more than an equipment developer-manufacturer. In addition to providing drills,

---

THE COVER: *Photograph At Left*—The Ingersoll-Rand T5-DH Drillmaster and DHD-130 Superdrill which drilled, according to the Chamber of Mines of South Africa, the "largest and fastest hole ever to such a depth (700'), through such hard rock." On-board air supply was supplemented by the world's largest portable compressor (at right), the Ingersoll-Rand Spiro-Flo DXL-5000-S which has a capacity of 5000 cfm at 125 psig. *Photograph At Right*—View of the T5-DH Drillmaster with tower down shows button bit of the DHD-130 downhole drill at South African mine rescue tests. Assembly around bit is part of "blooey box" arrangement for directing cuttings and water rising out of the hole to one side of the drill.

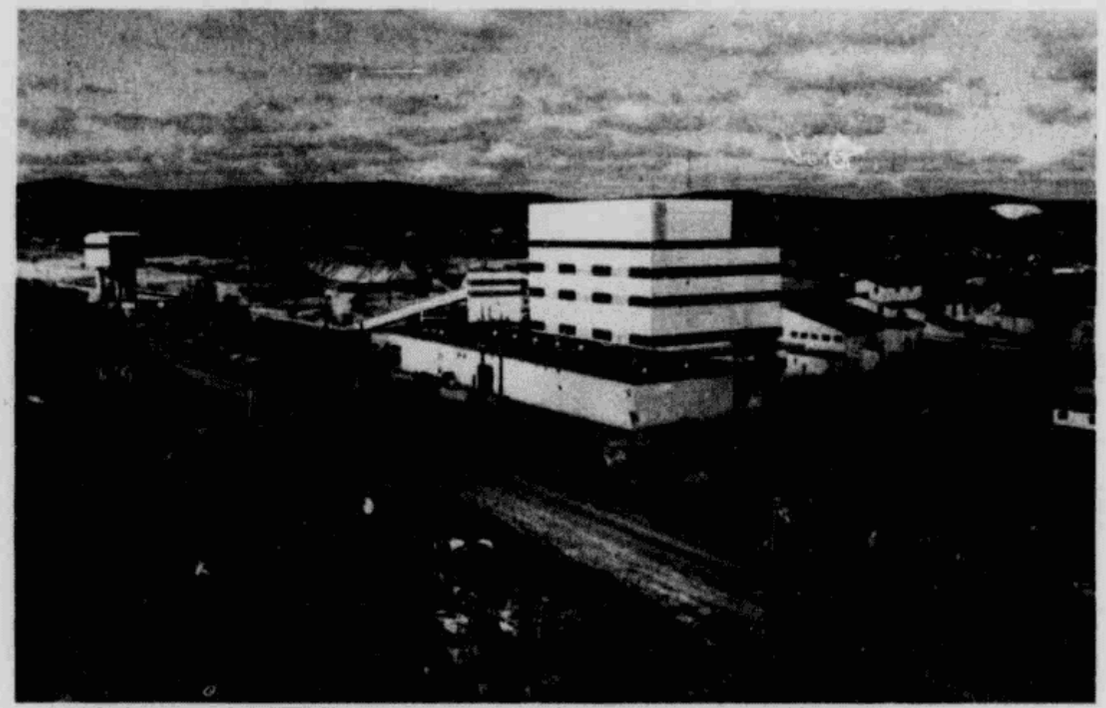
Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 4 of 62
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asbestosclaims.law/library/12711/4



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asbestosclaims.law/library/12711/5

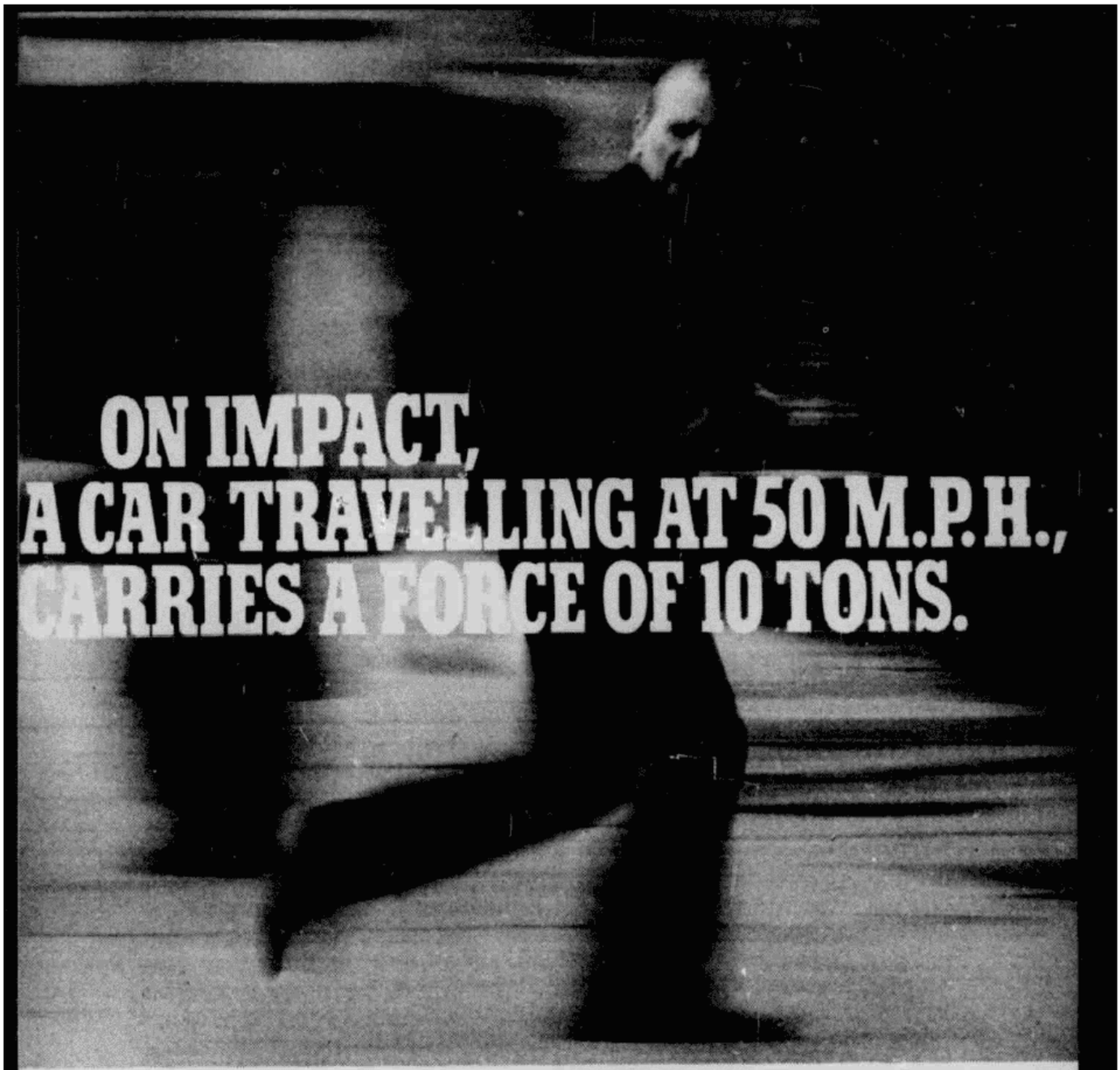
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mountings, drill pipe and bits, portable compressor and numerous tools and accessories, Ingersoll-Rand was retained as technical consultant on the rescue equipment project and was responsible for instructing and training the drilling crews of the College.

The successful tests mark an end to an arduous 17-year search by the Chamber of Mines for a large-diameter drill which was sufficiently effective to bore at reasonably rapid rates through a 350-foot-thick zone of tough, hard rock. The benefit? Miners can now be reached in reasonable time if trapped alive in a mine emergency.

NEW FIRE DETECTOR

Better protection from loss by fire in mining and other industries is possible with a new automatic fire detection and actuation device from *The Ansul Company*, Marinette, Wisconsin. The device—known as SCAD, for Self Contained Actuation and Detection—will withstand grinding abuse in a fixed hazard location or on heavy vehicular equipment. SCAD has just four components and is sufficiently versatile and reliable to be adapted to almost any fire hazard situation, according to the company. Among its more important advantages are that it needs no outside power source, it will operate at temperature extremes and it can be completely tested and recycled in three minutes. Basically the apparatus consists of pressurized tubing with an actuation mechanism at one end and a pressure make-up instrument at the other end. The fourth component is a warning module which shows a light when pressure in the tubing has fallen below a certain level. The tubing, which is effective over a maximum length of 750 feet, is run through the fire hazard area. If fire occurs, the tubing will melt at 355°F, relieving pressure inside the device and allowing it to activate the fire suppression system.

FANS FOR MINE VENTILATION

"Axial-Flow Fans for Primary Mine Ventilation" is the title of a new brochure issued by *TLT-Babcock, Inc.*, Akron, Ohio, which describes the technology, operating efficiency and features of the company's variable-pitch, axial-flow fans. The fans are suitable for high-volume applications. By changing the blade angle, either hydraulically or mechanically, fan output and pressure head can be varied without the necessity for large dampers to throttle

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the outlet pressure. The shape of the constant efficiency curves is relatively parallel to the mine resistance curve so that high efficiency can be maintained, resulting in the fan requiring substantially lower power than a comparable centrifugal fan at all loads. Hydraulic blade pitch adjustment permits all blades to be positioned simultaneously during operation to maintain efficiency at a high level.

RESIN TREATMENT RESISTS ROCK ABRASION

A series of new friction and abrasion-reducing metal treatments called Impreglon®, from *Mobion International, Inc.*, Shakopee, Minnesota, is reportedly reducing wear of mining and production equipment caused by handling rock and stone. The treatments are based on a unique process of preparing the metal substrate, making it porous and receptive to subsequent application of fluoropolymer-based resins. The resins are then cured at elevated temperature and locked onto the surface of the metal in such a way that the resin surface will not chip or peel. Low friction, excellent release, corrosion and chemical resistance, high-temperature stability and abrasion resistance are some of the advantages of the treatments. Impreglon is effective in reducing abrasion when used on excavating equiprnent, chutes, crushing and grinding machinery and on such moving parts as bearings, rollers and drives on conveyor belts and engines and axles of hauling equipment.

TAPE SEISMOGRAPH FOR MINERS

Dallas Instruments, Inc., Dallas, Texas, has introduced a battery-powered, tape-recording seismograph, Model BT-4B, which, says the company, will help the user comply with Federal surface mining regulations and with State and local blasting rulings. The seismograph is a four-channel instrumentation cassette tape recording system (record only) designed to field record three channels of seismic data and one channel of air over-pressure signals, while simultaneously presenting a visual display of the peak velocity sensed by any of the three component velocity sensors (pick-ups). A panel-mounted meter reads directly in inches per second of peak velocity and allows the operator to know immediately the level of vibration that has been recorded. An optional feature permits display on the meter of the peak air over-pressure signal.

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QUEBEC OFFICIAL DISCUSSES POLICY

The intentions and plans of the Province of Quebec, under its new Asbestos Policy, were the topic of a speech by The Hon. Yves Berube, Quebec Minister of Natural Resources, presented at a recent gathering of members of the Asbestos Textile Institute, Inc. The two precise goals of the Provincial Government are to increase the amount of asbestos processed in Quebec and to be "present" in the asbestos mining industry.

To accomplish these aims the Province has established an Asbestos Bureau, responsible for examining, with private mining companies in Quebec, various asbestos processing possibilities which might be successfully implemented in the region. Mr. Berube expects that in a time span of 18 months, several projects will have been developed or that, at least, an irreversible cooperative effort will have begun toward a greater amount of asbestos products being produced locally. The Government has also reached the decision to make an offer to General Dynamics Corporation for its shares (about 54%) in Asbestos Corporation Ltd.; but, stressed Mr. Berube, it will be an offer to buy at an agreed price and in no way is it a move toward nationalization.

Further, the Provincial Government has created Societe Nationale de l'Amiante (National Asbestos Corporation), a state-owned corporation endowed with a capital of $250-million. Its objective is to operate asbestos mines, to sell fiber and to invest in asbestos-based products plants. Also, in the Fall of 1978 an Asbestos Research and Development Institute will be set up to develop new asbestos-containing products and to measure and limit asbestos fiber emissions from existing or new products. The Minister expressed the hope that private producers in Quebec will join in this endeavor.

It is not the Province's intent to in any way disturb Quebec's existing export markets, said Mr. Berube. Idealistically, the long-term objective is to process 20% of the fiber produced in Quebec; or, to put it another way, to export 80% of local fiber output.

The Province hopes that many manufacturers will consider relocating their plants in Quebec and has offered substantial assistance to interested companies, either with feasibility studies or at the investment level.

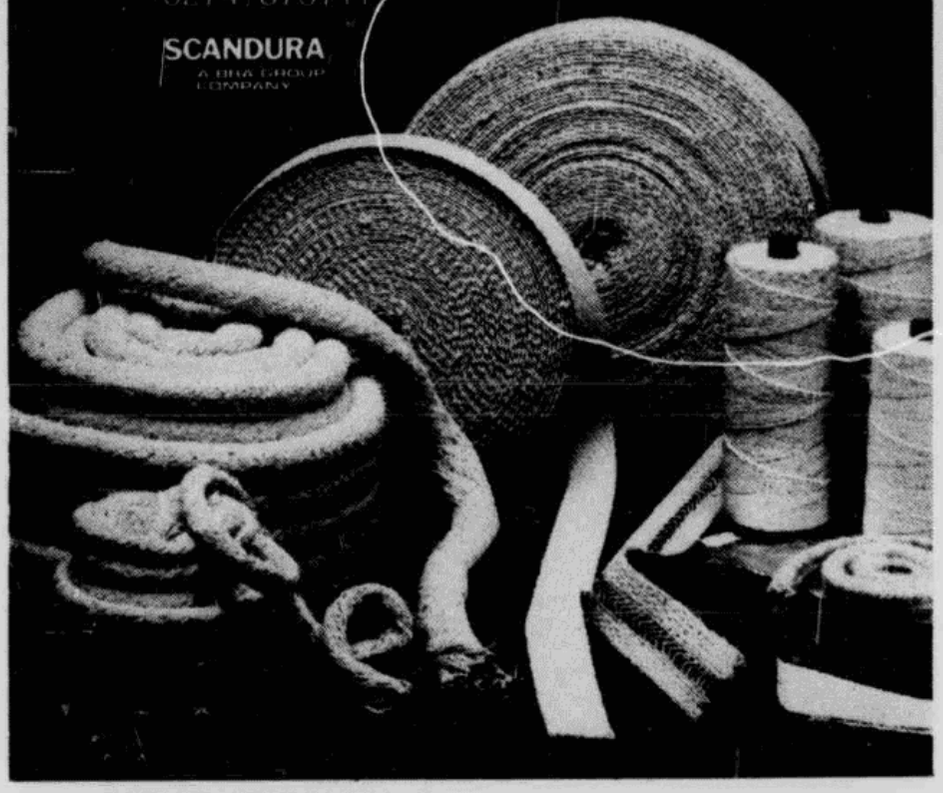
Concerning the Government's position on the asbestos-health situation, it deems it necessary that processing, utilization and demolition of asbestos-containing materials should be so organized as to eliminate any fiber emission into the environment. Quebec supports the asbestos exposure limitation in working

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ACL Doc 12711 · Page 12 of 62
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areas of "two fibers per cubic centimeter of air, longer than five microns." Mr. Berube is convinced that proper precautionary measures and the observance of strict governmental regulations will contribute toward the restoration of confidence in the use of asbestos, an essential product.

In closing, the Minister gave a case in point as proof of Quebec's optimism for the future of asbestos. He reported that several weeks ago, with the help of some major Canadian firms, technical and economic studies were begun on the extensive utilization of asbestos textiles in the electro-chemical industry, believing the future holds promise for the application of asbestos textiles in electricity and in hydrogen-producing cells.

ATI HONORS TWO MEMBERS

At its recent meeting in Quebec City, the Asbestos Textile Institute, Inc., presented awards to two of its members of long standing for their many years of contributory service to the organization and to the industry. The members so honored were *G. F. A. Brink*, retired Vice President-Research and Environment for Asbestos Corporation Ltd., and *P. E. Leclerc*, who will retire August 1 of this year as Sales Director-Region #1 for Asbestos Corporation. Together these gentlemen have served the industry for over 90 years.



In the photograph above, from left to right, are: Elva and Gay Brink; Michael J. Scanlan, President of ATI; and Alice and Paul Leclerc.

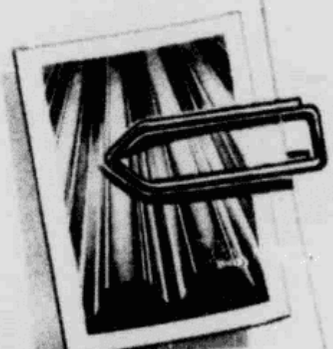
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MARKET CONDITIONS

GENERAL BUSINESS

Latest figures indicate an appreciable slowing in business activity near the end of the second quarter. Industrial production increased 0.6% in May, a sharp reduction from the strong growth in March and April. Housing starts have declined as have permits for new construction, leading several analysts to conclude the housing boom has passed its peak for the current cycle. It is now widely predicted that an overall slowdown in the economy during the second half of the year will result in real GNP growth of between 3% and 4% for calendar 1978.

Inflation continues at a rate of about 7% and seems to be accelerating in the absence of any innovative steps to control it. While some very large corporations have tried to comply with the President's request by placing a lid on salary increases for certain groups of executives, almost no one seriously believes such token gestures can have any appreciable dampening effect on inflation. The proposal to limit pay increases for federal employees is likewise a feeble gesture when what is really required is a substantial cut in the number of government employees at federal, state and local levels and a reduction in the stream of regulations which are exerting constant upward pressure on the costs of living and the costs of doing business.

The Federal Reserve is continuing its efforts to fight inflation by pursuing a relatively tight monetary policy. While growth of the money supply has not yet come down to the targeted rate, interest rates have been climbing and, in June, the prime rate at most large banks had risen to 8¾%. Rates on both short and long term bonds are trending upward but are expected to peak before year-end at levels which will not cause a credit squeeze. Predicting interest rates has been a notoriously inexact art and we would not be inclined to wager on the accuracy of this forecast.

The overwhelming approval in California of a high cut in property taxes may serve as a signal to all levels of government that their taxing and spending powers are not unlimited. While the action is subject to some criticism on the grounds it used an axe where a scalpel was called for, the fact remains that the entrenched bureaucracy is being forced to listen to the great, usually silent, majority instead of the highly organized pressure groups whose demands have, in many cases, become almost unbearably excessive. It is interesting to note that a number of states were already considering similar moves to limit government taxing and spending and these movements have gained momentum as a

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result of the California vote. Of even more interest is the reaction of many Congressmen who, in this election year, have suddenly awakened to the virtues of fiscal responsibility. While the California vote was directed toward reducing one particularly irritating tax, it can be interpreted, in a broad sense, as a vote against inflation in general. If Congress and state legislatures read it this way, we will have made a giant step forward in the fight against inflation.

ASBESTOS FIBER

Demand for Group 7 asbestos fiber presently exceeds supply due to the prolonged strike at Carey-Canadian Mines Ltd. This demand should continue strong for the remainder of 1978.

Unofficial figures show Canadian shipments of asbestos for the first quarter of 1978 to be 341,577 short tons vs. 398,000 tons for the same period last year.

Sales of asbestos cement grades are not expected to improve until overseas customers reduce their inventories of fiber and of finished products.

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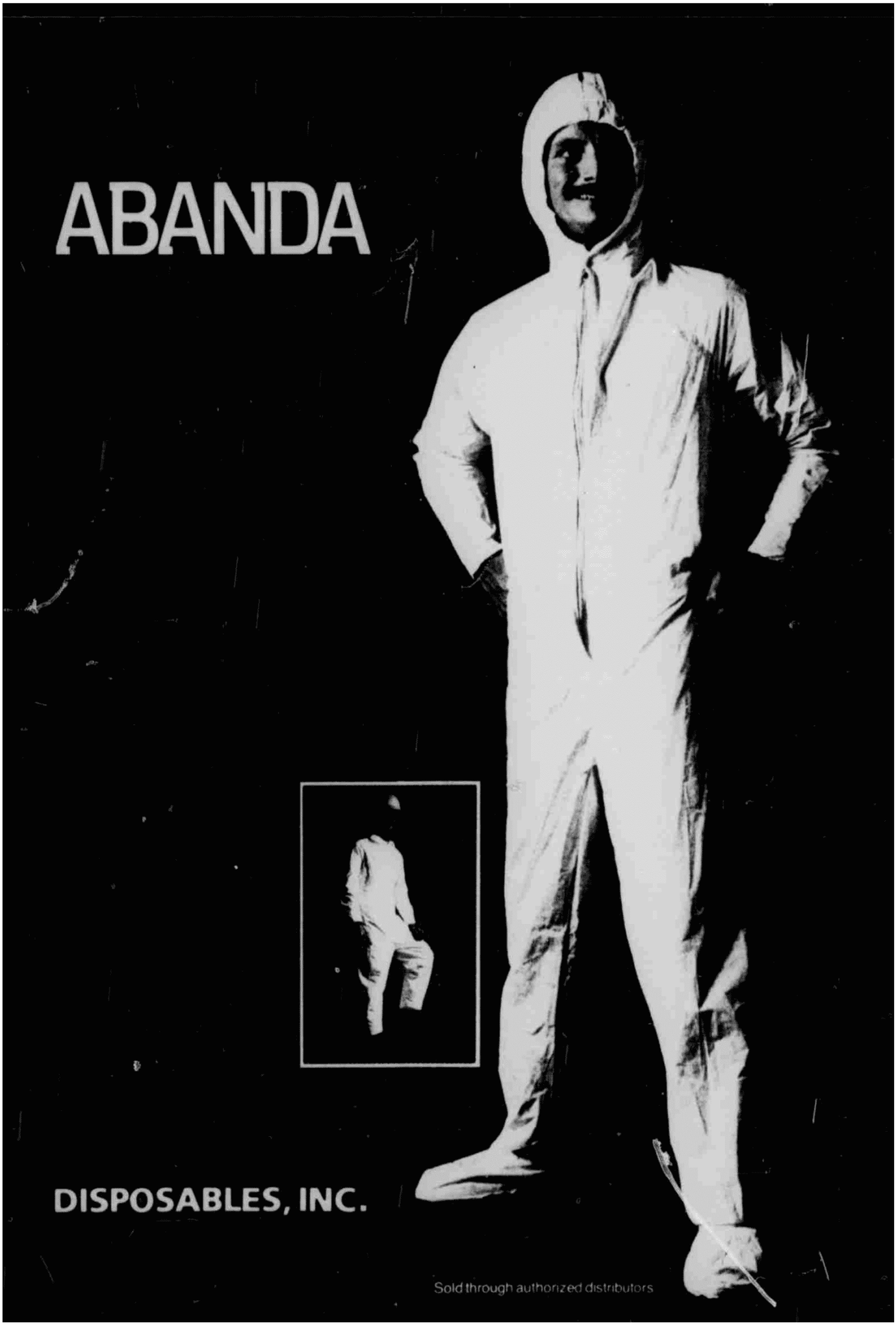
THE INTERNATIONAL ENVIRONMENTAL MAZE

OSHA GENERIC CANCER POLICY HEARINGS

Hearings began in May on the *proposal of the U.S. Occupational Safety and Health Administration on the "Identification, Classification and Regulation of Toxic Substances Posing A Potential Occupational Carcinogenic Risk"* (See ASBESTOS, February 1978, page 24, and March 1978, page 4). Among the many testifiers were 17 prominent toxicologists and medical scientists, testifying on behalf of the *American Industrial Health Council* — an organization of over 90 companies and 60 national trade associations working with OSHA to develop a rational and practical standard for regulating carcinogens in the workplace. In summarizing AIHC's basic position, *Paul F. Oreffice, President of Dow Chemical Company,* said the Council and its member companies "recognize fully the need for regulation and understand their obligation to their employees. . . . However, let us not establish a policy which arbitrarily selects only limited portions of animal data and rejects other relevant data. Let us not embark on poor science by mandating only partial answers when sound scientific evaluation is within our grasp. . . . The OSHA proposal could automatically trigger a massive compliance program without any consideration of the relative hazard posed by the substance or its conditions of use. . . . We are in no way suggesting that we should trade lives for dollars. . . . While we must assure a safe workplace, we must adopt regulations which are not wasteful."

Following are just a few of the comments submitted at the hearings. *Dr. George Claus, noted toxicologist, Faculty of Rutgers Medical School*— It seems apparent that the testing procedures accepted as adequate for classification in the OSHA proposal will, in most instances, not be relevant to human exposure to industrial chemicals suspected to be carcinogenic. . . . *Dr. Johannes Clemmesen, Chief Pathologist, Finsen Institute, Danish State Hospital for Cancer Treatment*—If tobacco smoking is eliminated from the calculations, there does not appear to be an epidemic of cancer in Denmark or in America. Environmentally related causes of cancer are those principally associated with life style, i.e., tobacco, diet, alcohol and sunshine. Industrial chemicals have nowhere been demonstrated as a significant causative agent in the overall cancer incidence. OSHA's proposal to ignore negative epidemiology (human experience) where there are positive animal data is an unsound approach. . . . *Dr. Leonard J. Goldwater, Faculties of Duke University and the University of North Carolina*—The threshold concept holds that there is a specific dosage

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 18 of 62
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level for each substance below which no measurable effect occurs. There is no substance which cannot cause harm at large doses nor cannot be safely tolerated at small doses. . . . *Dr. James H. Jandl, Professor of Medicine, Harvard Medical School*—There is no epidemic of cancer in the United States, as OSHA alleges. With the exception of lung cancer in men and women, due in great part to cigarette smoking, cancer is actually decreasing. OSHA should provide evidence to support its repeated assertions of an escalation in U.S. cancer deaths and should demonstrate convincingly that most of the deaths are preventable.

Paul Deisler, Vice President of Shell Oil Company, said that meeting the controversial new workplace-carcinogen standards proposed by OSHA could cost consumers and business billions of dollars and could add at least 1% to the U.S. rate of inflation. These estimates are based on a study conducted for AIHC by Foster D. Snell, Inc., a division of Booz, Allen and Hamilton, Inc., on the likely economic effects of compliance with the OSHA proposal. The Council feels that a significant portion of the projected expenditures are unjustified.

On discussing the OSHA proposal, AIHC reports it *will apply* not only to companies which produce chemicals but also to the firms which use such substances in processing, manufacturing, packaging or distribution—in short, *to almost all of U.S. industry.* Other federal agencies are considering patterning their regulation of cancer-causing agents after OSHA's final standard, so the OSHA proposal takes on heightened significance.

Back in February the Council delivered to OSHA modifications to its proposal in the form of an *Alternative Plan*, prepared by a team of scientific, medical, engineering and regulatory experts who studied the OSHA proposal intensely and who developed a point-by-point summary of suggested changes. The Plan calls for cooperation among government, industry and labor in developing scientifically valid methods to identify and control cancer-causing substances which could pose hazards to employees. Significantly the Plan suggests the formation of a scientific classification panel, to be selected by the National Academy of Sciences, which would properly identify carcinogens.

EPA AMENDMENTS & RULINGS

The *U.S. Environmental Protection Agency* issued new rules which toughen the restrictions on asbestos spraying operations and asbestos removal from buildings during renovation and demolition. The ruling, published in the Federal Register of June 19, 1978, and effective that date, *amends the National Emission*

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 20 of 62
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Standard for Asbestos set by EPA on April 6, 1973. The original standard covered only those demolition and renovation operations involving asbestos-containing insulation and fireproofing materials. It also prohibited the spray application of these same materials if they contained more than 1% asbestos. The amendments extend the coverage of the demolition and renovation requirements to all friable asbestos-containing materials (those which, when dry, can be crumbled, pulverized or reduced to powder, by hand pressure). The amendments also extend the coverage of the spraying requirements to any material which contains more than 1% asbestos, except those in which the fibers are encapsulated with a bituminous or resinous binder and which are not friable after drying. EPA Deputy Administrator Barbara Blum reported the amendments are not expected to have a significant adverse economic impact.

CPSC WILL STAY & CLASSIFY

The Carter Administration has decided to keep the *U.S. Consumer Product Safety Commission* in being for three more years, but it wants Congress to amend the Consumer Product Safety Act to transfer from CPSC to the EPA the responsibility for scientific research needed to permit proper regulation of hazardous substances in consumer products. [AIA/NA News & Notes]

CPSC has published, on an interim basis, and is soliciting comments on, its general policy and procedure concerning the classification, evaluation and regulation of substances that, if present in consumer products, pose a risk of cancer to consumers. The interim policy and procedure have been in effect since June 13, 1978. Written comments should be submitted by October 11, 1978. Under *Subpart E—Regulatory Treatment of Products Containing Category A Substances*, the Commission will not permit known carcinogens to be intentionally added to consumer products if they can be absorbed, inhaled or ingested into the human system, unless elimination of the carcinogen would result in unacceptable economic and social costs, in which case CPSC will require reduction of the substance to the lowest attainable level until reasonable substitutes are identified. [FR 6/13/78; CFR 16, Part 1040]

TRANSPORTING HAZARDOUS WASTES

The Materials Transportation Bureau, U.S. Department of Transportation, has proposed to amend its *Hazardous Materials*

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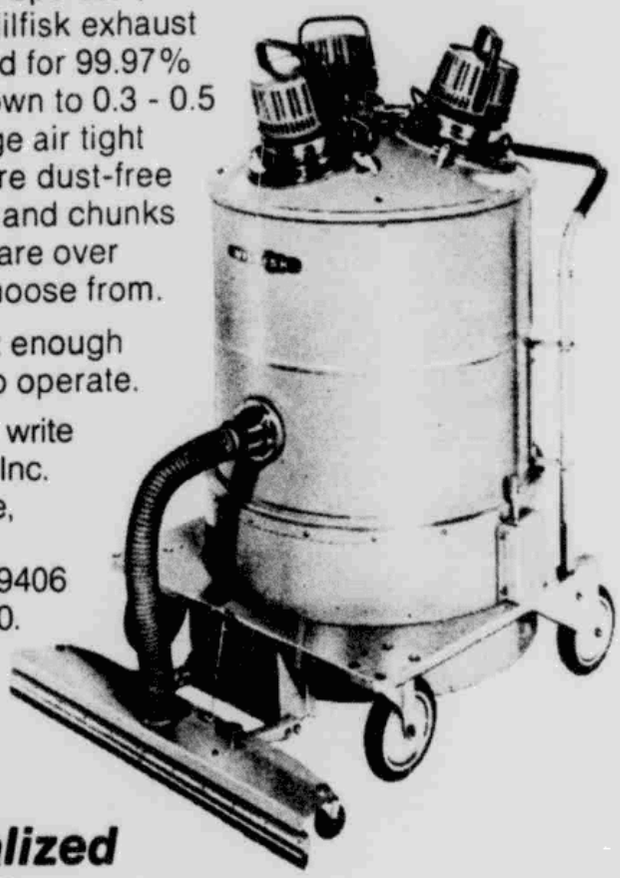
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Clean air standards being what they are, you may not be meeting them even with a central dust collector. And this year, standards are being tightened even further.

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In addition special Nilfisk exhaust filters can be installed for 99.97% average retention down to 0.3 - 0.5 microns. Heavy gauge air tight container liners insure dust-free disposal of fine dust and chunks of debris. And there are over 50 attachments to choose from.

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NILFISK GA 73.
The decentralized dust collector.

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Regulations to specifically address the transportation of hazardous waste materials. The proposed rules would place minor recordkeeping requirements on shippers and transporters of hazardous wastes, would prohibit transportation and delivery to improper treatment, storage or disposal sites and would apply to materials listed in the Hazardous Materials Table when shipped as waste as well as some waste materials not now designated as hazardous by DOT. [FR 5/25/78; CFR 49, Parts 171-177]

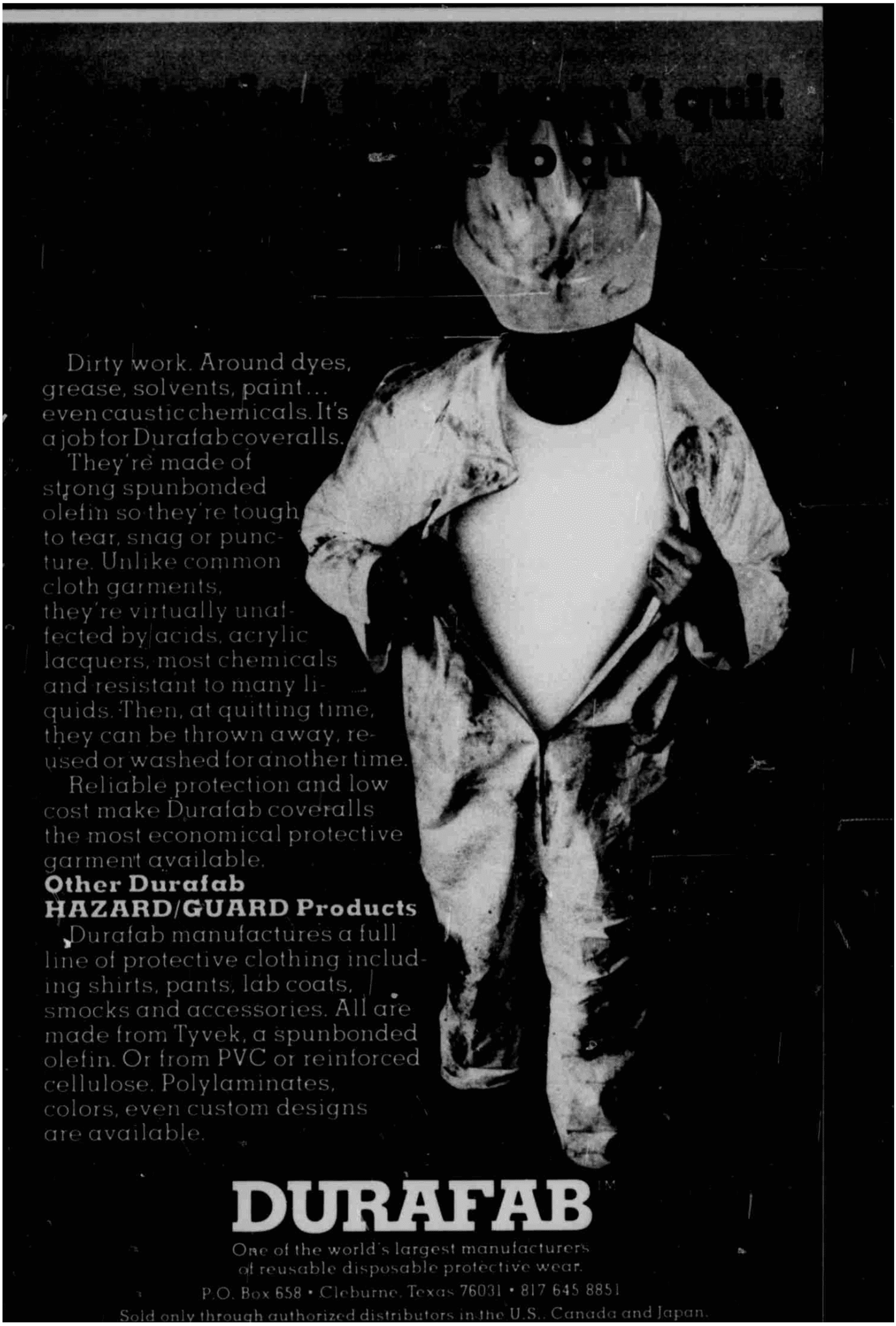
HELP FOR PAST SHIPYARD WORKERS

Former shipyard workers may obtain information about the risks from exposure to asbestos by writing to: Asbestos, *National Cancer Institute,* Bethesda, Maryland 20014—or by telephoning the following toll-free number: (800) 638-6694.

STATE-SIDE HAPPENINGS

California—Two State Senators have introduced a compromise Bill (SB 1591) on the long-debated issue of a *ban on the spraying of certain asbestos-containing products.* The Bill would provide a one-year extension to July 1, 1979, for spraying such asbestos-containing products as Portland cement plaster and certain other encapsulated asbestos products during which time the Cal/OSHA Standards Board could decide on the ultimate allowable uses of sprayed-on, asbestos-containing materials. . . . *The Western Institute for Occupational/Environmental Sciences, Inc.,* Berkeley, has begun a study in Northern California in an attempt to locate former and current workers being exposed to asbestos during handling. A register of workers will be maintained, lung X-rays will be taken and cases will be monitored to determine the incidence of cancer among them. . . . *The California Department of Health* has commended the *Golden Gate Bridge, Highway and Transportation District* for protecting those of its mechanics who work with asbestos lining while performing brake and clutch maintenance and repairs on buses. . . . About one-third of the employees who have worked at the *Long Beach Naval Shipyard* at least 17 years have contracted asbestosis. The official report says the workers had "abnormal findings consistent with inhalation of asbestos fiber." The U.S. Navy tested 6,640 current workers at the facility and found 16% of them had abnormal chest X-rays, indicating asbestosis. However, over 5,300 of the workers had been employed less than 12 years and the percentage of abnormal X-rays increased in proportion to length of employment. . . . Many

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residents of *San Diego* may be able to breathe easier, according to a news report in The San Diego Union. Local medical authorities feel the health danger to millions of workers who breathed asbestos into their lungs before the dust and fibers were cited as a potential danger may not be as serious as first thought. Industry, labor and government officials say that modern regulations and safety measures have reduced the asbestos threat even more. Dr. Kenneth M. Moser, head of the Division of Pulmonary Medicine, UCSD School of Medicine, said he and colleagues have not seen any surge in the disease in recent years.

Connecticut—A program to combat lung cancer among asbestos workers in the State was included in a request to the *National Cancer Institute* for a five-year, $8-million federal grant for a state-wide cancer control project. The overall application calls for a focus on cancer of the lung, breast and colon-rectum. That portion of the *program dealing with asbestos* requests a five-year federal grant of $145,739 to fund asbestos worker screening clinics and projects to stop smoking in industries across the State. Connecticut would put up $145,669 as its share of the first year cost of the project.

Oregon—The *Northwest Food Processors Association* reports that Oregon compliance officials are leading the nation with a proposed standard for mandatory pulmonary function testing. The purpose of the proposed rule is to establish minimum pulmonary health appraisals for employees who as a normal or expected part of their employment would be required to use any type of respiratory device. [National Safety Council]

Southeastern Virginia—The region around *Tidewater* has been designated by the U.S. government as one of *15 areas in the United States* where asbestos-related diseases are most likely to occur, according to a spokesman for the *National Cancer Institute.* These areas have been targeted for a federally-funded publicity campaign beginning this summer to warn workers of the potential hazards of exposure to asbestos. The other 14 target areas, selected because of the heavy concentration of shipbuilding activities there, are: New York City; Philadelphia, Pennsylvania; Baltimore, Maryland; Charleston, South Carolina; Jacksonville, Florida; New Orleans, Louisiana; Houston, Texas; Detroit, Michigan; San Diego, Los Angeles and San Francisco, California; Seattle and Tacoma, Washington; and Hawaii.

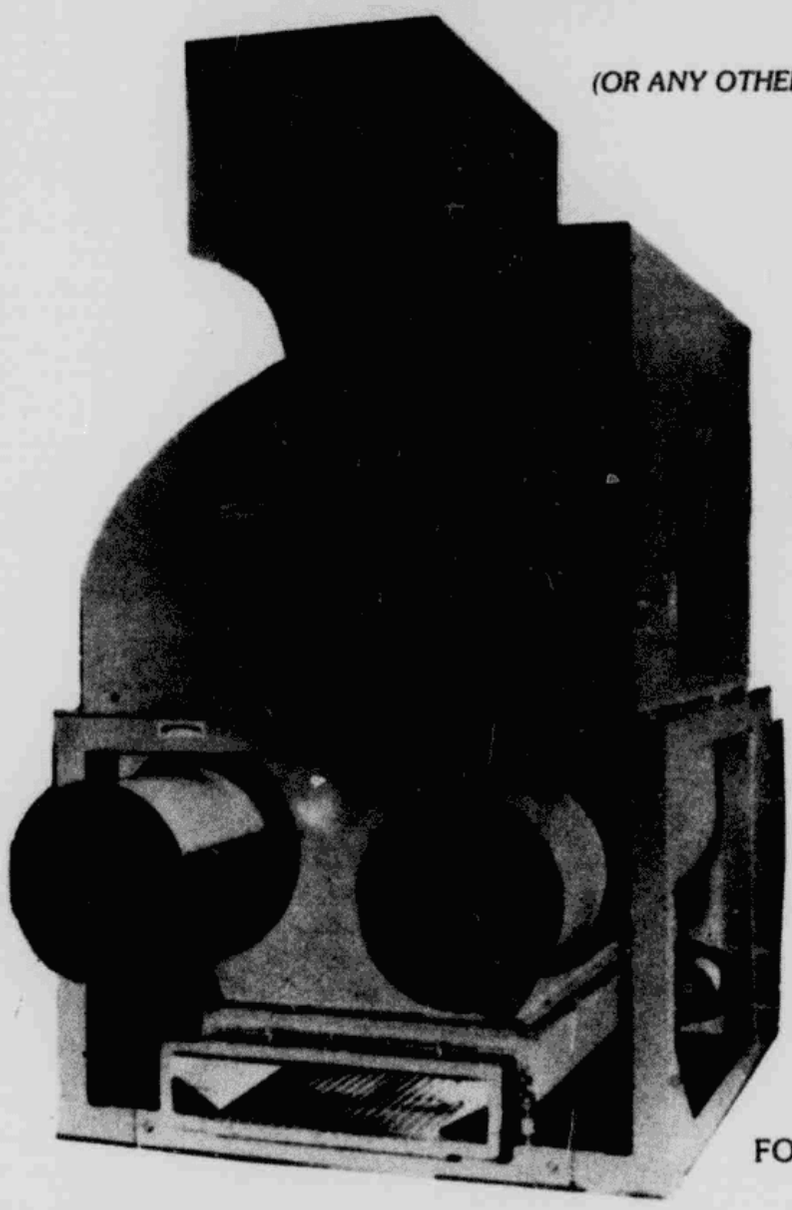
A BIT ABOUT CANADA

A bill before Parliament proposes the establishment of a *Canadian Center for Occupational Health and Safety.* The Center would be a self-governing body with responsibility for the setting up of an

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integrated information system on all aspects of occupational health and safety, dissemination of authoritative information and stimulation of research. Cost to operate the new organization would be $1-million the first year, increasing annually to about $8.5-million. The proposed legislation empowers the Center to publish data openly and requires it to both hear and account for its action or reaction to briefs and representations. [Canadian Mining Journal]

The Industrial Hygiene Association was recently formed in the Province of Quebec by a group of specialists working in industry, the trade unions, government and universities. Among the main objectives of the organization are the promotion of study and control of factors affecting the health and well-being of workers and the establishment of an information exchange program between all specialists interested in the various aspects of industrial hygiene. Particular attention is to be paid to legislation on occupational hygiene with the intent of making a critical evaluation of content and presenting recommendations when deemed necessary. Also, research will be encouraged in all specialties related to industrial hygiene. Among the 25 founding committee members is Marc Trudeau, Research Consultant for the Quebec Asbestos Mining Association.

DOWN UNDER, IN AUSTRALIA

Medical research workers in Australia have launched an international search to obtain a record of the *incidence of asbestos-related disease* among former workers at the Blue asbestos mine at Wittenoon, about 1,000 miles northwest of Perth. The mine was operated as a subsidiary of the *Colonial Sugar Refinery Company* from 1943 until it was closed in 1966. The researchers will examine the electoral rolls and death registers of all Australian States and seek the assistance of the Department of Immigration to determine how many of the workers have returned to Europe. . . . It appears likely that asbestos products made in *New South Wales* will have to carry *health warning labels*. Talks have begun between officials of the State Health Commission, James Hardie and Coy. Pty. Ltd. and the Asbestos Association of Australia.

SOUTH AFRICAN SYMPOSIUM PROCEEDINGS

Last October, international experts on asbestos and health met in Johannesburg for an *Asbestos Symposium* sponsored jointly by the South African Government and the asbestos mining and manufacturing interests in that Country. The event focused on

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dose-response relationship for various asbestos-related diseases, on various types of the fiber and on the value and relationship of methods for asbestos dust measurement. The Proceedings are now available and include the papers presented at the nine sessions, a foreword and preface, a list of participants and a study of variations in the radiological assessment of pneumoconiosis. Inquiries pertaining to the Symposium or the Proceedings should be directed to: The Secretary of Mines, Department of Mines, Private Bag X59, Pretoria, Republic of South Africa.

U.K. RECOMMENDATIONS

The Health and Safety Executive of the United Kingdom and Mr. Albert Booth, U.K. Employment Secretary, are considering recommendations by the *Government Advisory Committee on Asbestos* which would restrict the use of asbestos for purposes of insulation. They call for a complete ban on the spraying of asbestos and use of the mineral in thermal and acoustical insulation. Also recommended is the formation of a Code of Practice for all companies which handle asbestos. [Mining Journal]

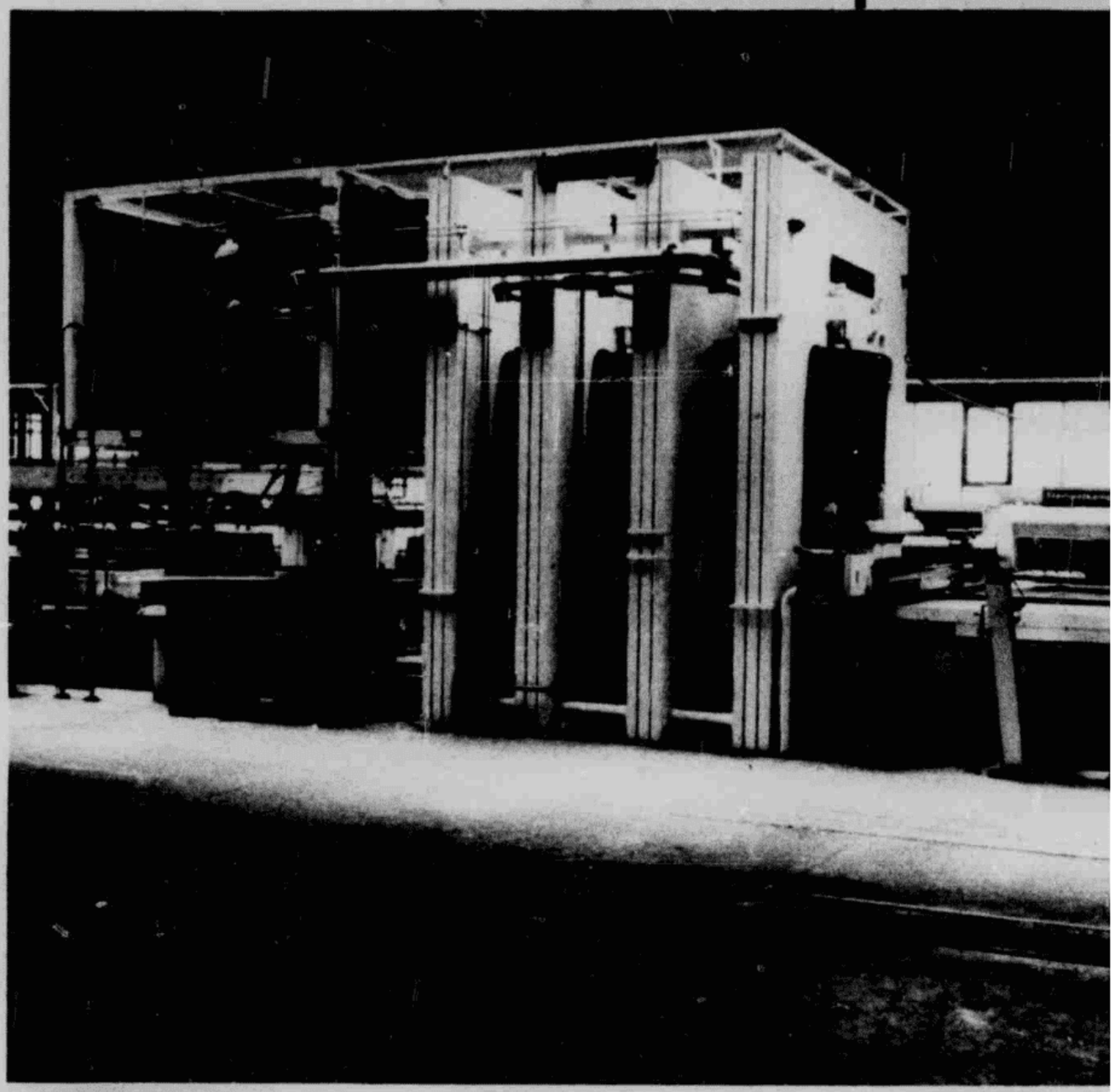
WORLDLY MATTERS

Air Chief Marshall Sir Neville Stack KCB, CVO, CBE, AFC, was named Director General of the *Asbestos International Association* effective July 1, 1978, following the retirement of *Alex A. Cross* who had been serving since 1976 as the Association's first Director General. Sir Neville retired from the Royal Air Force in January 1978 after a distinguished career which included appointments as Deputy Captain of the Queen's Flight, Commandant of RAF College, U.K. Permanent Military Deputy at CENTRO in Ankara, AOC-in-C RAF Training Command and Air ADC to The Queen. . . . The second bi-annual *General Meeting and Conference* of the Asbestos International Association will be held in London October 25-26, 1978. . . . The Association has delegated a panel of experts to gather all available data on the *international incidence of asbestos-related disease.* The mandate to the panel centers on: the collection of all available information on the biological effects of asbestos in all countries where the mineral is used, differentiating between the types of activities and products; the critical analysis of the criteria used for diagnosis in each of the countries involved; and the collation of all available data on the incidence of cancer, particularly lung cancer, having no link with asbestos. [QAMA Bulletin]

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PRODUCTION—IMPORTS—EXPORTS

AUSTRALIAN IMPORTS & EXPORTS

For the *Nine Months Ended March 1978*, Australia *imported* 44,042 metric tons of asbestos valued at A$20,346,132, behind the same period a year earlier 6516 tons and $349,168. The breakdown by variety of asbestos for the latest nine months is: Chrysotile, 18,268 tons (down 24,298 tons), $8.6-million; Amosite, 12,805 tons (down 414 tons), $5.9-million; Other, 12,969 tons (up 1196 tons), $5.8-million. Total asbestos imports for the nine-month period to March 1976 were 39,077 tons valued at $12.8-million. For the like period to March 1975, imports reached 38,116 tons valued at $7.4-million. . . . *Exports* of all types of asbestos for the *Nine Months Ended March 1978* totaled 26,059 tons valued at $17,512,358 compared with 21,949 tons valued at $6.9-million to March 1977, 26,967 tons valued at $8.3-million to March 1976 and 11,892 tons valued at $19.1-million to March 1975. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 106,171 short tons in *April 1978* compared with 135,164 tons for the fourth month of 1977. The cumulative total for *January-April 1978* was 446,190 tons: 381,779 tons from Quebec plants and 64,411 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first four months of 1977 was 533,164 tons: 421,815 tons from plants in Quebec and 111,349 tons from plants in the other four Provinces. . . . Beginning January 1978, these figures include concentrate shipped from Asbestos Hill. [Statistics Canada]

TAIWAN IMPORTS & EXPORTS

Taiwan, Republic of China, imported 25,343 metric tons of asbestos valued at NT$469-million during the *Year 1977*. By order of quantity, the countries of origin were the Republic of South Africa (14,031 tons), Canada (8370 tons), Japan (1980 tons), the United States, Hong Kong, the United Kingdom, Australia, Saudi Arabia and the Republic of Korea. . . . *Exports for the Year 1977* were nominal, totaling 1555 kilograms, 440 of which were shipped to Malaysia and 1115 to other countries. [Ministry of Economic Affairs, Taipei]

UNITED KINGDOM IMPORTS

Imports of asbestos crudes and fibers totaled 127,214 metric tons during the *Year 1977* compared with 144,120 tons in 1976. Canada supplied the largest quantity (87,830 tons in 1977; 98,351 tons in 1976) with the remainder originating from Swaziland, South Africa, Cyprus and Italy. [Industrial Minerals]

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 32 of 62
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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

MARCH 1978

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	403	$ 201,647
Crocidolite (Blue), South Africa	s.tons	773	469,524
Chrysotile Crudes, South Africa	s.tons	139	97,162
Chrysotile Spinning Fibers, Canada	s.tons	791	678,180
Chrysotile, Other, Canada	s.tons	49,905	11,814,570
Mexico	s.tons	41	5,249
South Africa	s.tons	80	50,328
Other Crudes & Fibers, Canada	s.tons	1,134	244,707
South Africa	s.tons	230	149,657
USSR	s.tons	1,096	316,794
		54,592	$14,027,818

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	751,059	$ 1,272,453
A-C pipes, tubes & fittings	Lb	1,473,208	168,888
Other asbestos-cement articles	Lb	1,842,273	370,440
Other asbestos articles		..	662,950
			$ 2,474,731

JANUARY-MARCH 1978

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	403	$ 201,647
Crocidolite (Blue), South Africa	s.tons	4,778	2,976,229
Chrysotile Crudes, Canada	s.tons	20	13,842
South Africa	s.tons	370	239,564
Chrysotile Spinning Fibers, Canada	s.tons	1,642	1,343,519
Chrysotile, Other, Canada	s.tons	132,448	32,160,034
Mexico	s.tons	75	5,598
South Africa	s.tons	141	90,995
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	2,310	507,836
India	s.tons	19	4,139
South Africa	s.tons	561	387,816
USSR	s.tons	1,113	324,447
		143,928	$38,284,244

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	2,832,206	$ 4,373,388
A-C pipes, tubes & fittings	Lb	5,076,824	598,879
Other asbestos-cement articles	Lb	4,859,680	1,013,747
Other asbestos articles		..	1,878,903
			$ 7,864,917

January-March 1977: U.S. imports of unmanufactured asbestos totaled 136,601 short tons, valued at $34,211,405; imports of manufactured asbestos products were valued at $7,879,462.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 33 of 62
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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

MARCH 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco . . . . s.tons	2,735	$ 971,306
Asbestos Sand & Refuse . . . . . s.tons	1,609	295,512
	4,344	$ 1,266,818

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc. . . . . Lb	401,039	$ 513,062
Asbestos-Cement shingles & clapboard . . . Lb	4,170,739	700,359
Other asbestos-cement articles . . . . . Lb	1,158,154	452,627
Asbestos gaskets . . . . . Lb	356,610	276,316
Asbestos packing & seals . . . . . Lb	401,470	911,591
Asbestos insulation	..	539,085
Brake linings & disc brake pads	..	4,749,509
Clutch facings & linings	..	1,300,469
Other asbestos articles	..	2,129,760
		$11,572,778

JANUARY-MARCH 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco . . . . s.tons	4,905	$ 1,830,304
Asbestos Sand & Refuse . . . . . s.tons	4,342	956,111
	9,247	$ 2,786,415

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc. . . . . Lb	2,146,148	$ 1,889,751
Asbestos-Cement shingles & clapboard . . . Lb	7,643,801	1,420,851
Other asbestos-cement articles . . . . . Lb	4,248,285	2,128,373
Asbestos gaskets . . . . . Lb	1,686,180	774,923
Asbestos packing & seals . . . . . Lb	2,251,350	2,898,867
Asbestos insulation	..	1,491,706
Brake linings & disc brake pads	..	8,488,484
Clutch facings & linings	..	3,139,418
Other asbestos articles	..	4,494,996
		$26,727,369

January-March 1977: U.S. exports of unmanufactured asbestos reached 9,052 short tons, valued at $2,821,514; exports of manufactured asbestos products were valued at $15,854,114.

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EXPORTS FROM CANADA

From: Statistics Canada

MARCH 1978

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	700	16,816	9,085
Eastern Europe	..	..	1,260	..
Middle East	..	..	1,610	151
Africa	..	..	503	5
Asia	..	340	7,835	10,183
Oceania	..	..	2,913	148
So. & Cen. America & Antilles	..	88	8,317	3,630
United States	..	677	11,999	34,244
	..	1,805	51,253	57,446

The total amount of unmanufactured asbestos exported in *March 1978* was 110,504 short tons, valued at $41,037,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 337,000
Asbestos brake linings & facings	300,000
Asbestos-Cement building materials	1,227,000
Other basic asbestos products	572,000
	$ 2,436,000

JANUARY-MARCH 1978

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,491	45,017	29,856
Eastern Europe	..	287	7,197	625
Middle East	..	..	3,620	1,379
Africa	..	..	2,320	20
Asia	..	710	25,087	30,611
Oceania	..	2	8,547	1,174
So. & Cen. America & Antilles	..	283	23,870	11,735
United States	..	1,833	29,966	112,121
	..	4,606	145,624	187,521

The total amount of unmanufactured asbestos exported in *January-March 1978* was 337,751 short tons, valued at $76,376,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 626,000
Asbestos brake linings & facings	720,000
Asbestos-Cement building materials	3,324,000
Other basic asbestos products	1,336,000
	$ 6,006,000

January-March 1977: Canadian exports of unmanufactured asbestos totaled 419,478 short tons, valued at $144,342,000; exports of manufactured asbestos products were valued at $4,383,000.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 35 of 62
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ANNUAL REPORTS—1977

CAPE INDUSTRIES LTD.

For the year ended December 31, 1977, Cape Industries Ltd. reported that although Group turnover increased £22.2-million over the prior year, to £155.4-million, there was a reduction of £2.3-million in profit before tax (£11.9-million) and a decrease of £2.8-million in profit after taxation and extraordinary items (£6.2-million). Earnings per ordinary share were 39.1 pence in 1977 vs. 38.9 pence in 1976. The reduction in profit was mainly attributed to Cape's mining operations in the Republic of South Africa where the weakening demand for fiber continued and deepened. . . . The company's investment program will continue in the United Kingdom and in South Africa. Total expenditure in 1977 was £14-million and an expense of £12-million on capital account is planned in 1978, £2-million of which will be in South Africa.

Acquisitions—Agreement was reached with Imperial Chemical Industries Ltd. for the purchase for cash of the cavity wall insulation business of its subsidiary, I.C.I. Insulation Service Ltd. This business has since been carried on under the name of Cape Insulation Services Ltd. . . . The loft insulation activities of J. Rhodes and Company, of Bradford, West Yorkshire, were acquired for cash and merged with the domestic insulation contracting operations of Pattison Insulations Ltd. . . . Cape Insulation Ltd. purchased for cash the assets of APA Foam Products Ltd., of Glenrothes, Fife, Scotland, manufacturers of phenolic foam insulation products. . . . Trist, Draper Ltd. made a cash purchase of the share capital of W. T. Minett (Sales) Ltd., of Coventry, England, distributors of hydraulic and pneumatic components. . . . The Scaffolding contracting assets of Qwikhire Ltd., Dublin, Ireland, were acquired for cash by Cape Insulation (Ireland) Ltd. . . . Agreement was reached with Svetab, the Swedish State Development Corporation, under which the company's minority interest in Svenska Bromsbandsfabriken AB, Langsele, Sweden, manufacturers of automotive friction materials, was increased to 90.1%. . . . A 42% interest in Fressek, S.A., of Valencia, Spain, makers of automotive friction materials, was subscribed for cash, at par.

Building & Insulation Division—Sales for this Division reached £82.8-million (up 26%) and trading profit was £5.5-million (up 19.5%). The increase in profit would have been greater had it not been for losses incurred at the industrial operations in South Africa. In spite of poor demand generally for construction materials, the growth in sales of thermal insulation products was well sustained and showed an improvement in profit and the insulation contracting services continued to increase in scope and importance to the Group. . . . Both building products companies experienced difficult market conditions. Demand for asbestos cement, the main product of Cape Universal Claddings Ltd., continued at a low level. Cape Boards and Panels Ltd. had to contend with the low demand plus the problem caused by criticisms of asbestos products, on health grounds. New products were added during the year, enabling CUCL to now offer a full range of asbestos and non-asbestos fire protection products for land and marine use, according to technical requirements.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 36 of 62
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from feasibility study to successful operation...

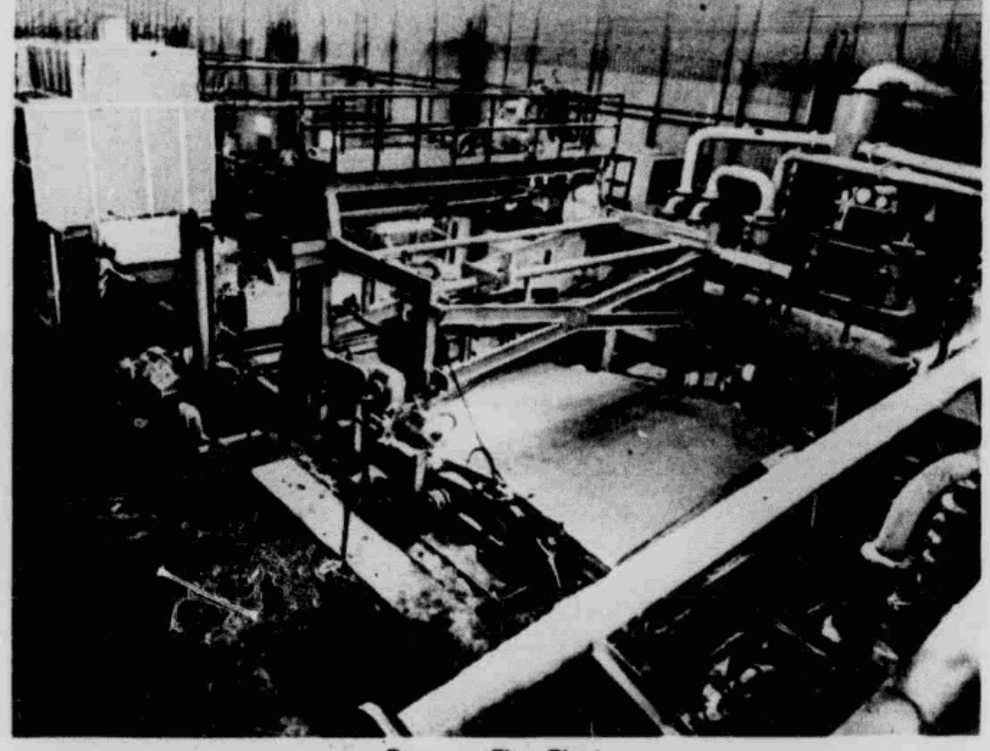
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Pressure Pipe Plant

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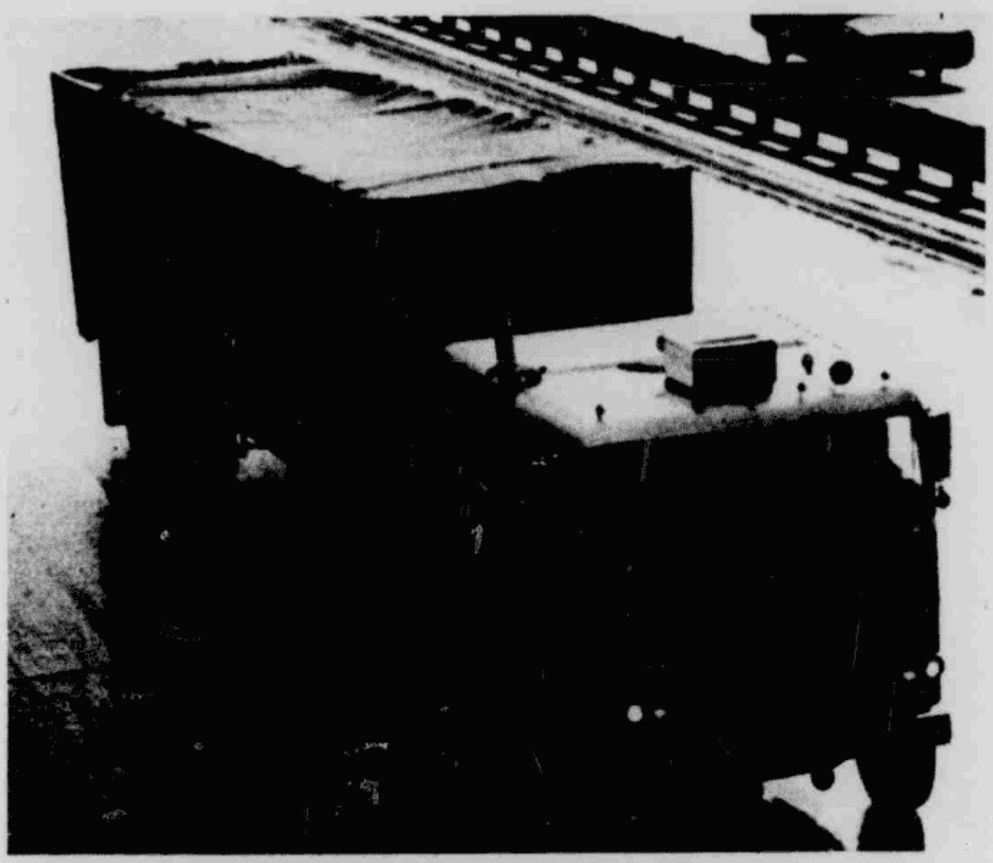
Automotive & Engineering Division—In spite of the unsettled state of the motor industry, this Division continued its steady improvement, with sales up 24% to £43.5-million and trading profit up 34% to £2.4-million. Concerning friction materials, profits for Don International Ltd. were significantly increased. Demand was satisfactory with the now-accustomed cutbacks in domestic original equipment demand offset by strong export and replacement orders. A new license agreement was signed in Hungary during the year and negotiations are at an advanced stage in other countries.

Mining Division—In the latter part of 1977 the situation at Cape's South African mines was especially difficult when it became clear that the weak demand for fiber was due not only to the worldwide recession in the construction industry but also to a substantial degree of overstocking by customers, many of whom had under-rated the extent of the drop in demand for their asbestos-containing products. Profits were much reduced for this Division, about £600,000 of the fall being attributed to exchange rate variations. Sales decreased 9% to £31.6-million and trading profit was down 39.5% to £6-million. . . . Sales of Amosite fiber, equal to the previous year, were achieved only by holding prices firm for most grades. Despite resolute and largely successful efforts to control costs, they inevitably rose due to inflation and a lower rate of production. As a result, profit margins were reduced. As the year progressed, the rate of production became too great in relation to sales, resulting in a considerable overage in stock and necessitating a cutback in production of some magnitude. It is anticipated that activity will remain at this lower level through most of 1978. . . . At the start of the year, stocks of Crocidolite fiber were low and it was expected that the whole output of the mines would be sold. However, demand weakened and a cut in production was made in the latter half of the year. Sales were somewhat lower than in 1976 and profits were down. . . . The current state of the world market and the costs of mining have led to a further consideration of the future of the Koegas Mine. Koegas is an old facility, begun in 1892, and has become gradually more uneconomic. Its grade is low and mining conditions are difficult. The completed expansion of mining and milling facilities at the Pomfret Mine will enable future demand to be met. As a result, operations at Koegas are being reduced and it is likely that mining will cease sometime this year. . . . It is expected that sales in 1978 will be somewhat lower than last year, with profits commensurately reduced. In the long term, prospects are encouraging.

H. K. PORTER COMPANY, INC.

Consolidated net sales for 1977 for H. K. Porter Company, Inc., totaled $478.6-million compared with $356.2-million in 1976. Net income was $10.3-million or $8.20 per share compared with $8.9-million or $6.96 per share in the prior year. Cash flow from operations amounted to

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LAKE ASBESTOS

A subsidiary of ASARCO

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 39 of 62
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$25.1-million vs. $16.2-million. . . . During the year Porter spent $15.2-million for capital additions, exceeding depreciation by $945,510. Major expenditures were concentrated in Connors Steel, Fansteel and Missouri Portland Cement. . . . In 1977 the company completed the liquidation of its Canadian company, closed the Baltimore Works, became the sole stockholder of Missouri Portland and made a tender offer for additional shares of Fansteel. About 90,000 shares of Fansteel have been tendered through March 8, 1978.

Porter operates in four principal industries, i.e., metals, electrical products, industrial distribution and cement. Connors Steel had higher sales but lower profits. All units of the Electrical Division reported increased profits, due primarily to a resurgence of buying by utilities, both in the United States and abroad. Friction and hose operations and Southern Asbestos Company showed strong gains in profits.

Net assets of foreign subsidiaries were $6-million at year-end vs. $6.5-million a year earlier, net sales were $24.2-million against $22.7-million and net income was $671,271 vs. $359,101.

SUPRADUR MANUFACTURING CORPORATION

Sales in 1977 for Supradur Manufacturing Corporation totaled $23.5-million compared with $22.7-million in 1976 and net income was $566,311 vs. $913,445. Contribution to total sales by product group was 40% from siding and roofing (down 3%), 26% from precast concrete (up 8%), 23% from heating equipment (down 4%) and 11% from fabricated sheet metal products (down 1%). Operating profits in Canadian currency were reasonably close to projections and good results are again anticipated in 1978. Arrangements were made in the course of the year to begin manufacturing operations in Toronto, complementing Supradur's facilities in Montreal. . . . The precision sheet metal operation was adversely affected by cutbacks in military procurement programs. . . . Sales of heating and air conditioning products in Canada did not reach the record highs set in 1976.

Siding & Roofing—The siding and roofing segment of Supradur's business was good, particularly in the domestic market. The new line of roofing shingles introduced at the end of 1976 has been well received. Supradur is the only U.S. manufacturer of fiber-reinforced, hard roofing shingles. These attractive roofing products carry Underwriters' Laboratory Class "A" labels and are used on a wide range of buildings where fire safety and appearance are major considerations. Export sales were severely hampered in Europe by the slow recovery from the recession; however, volume did pick up in the second half of the year. Export sales and foreign operations were conducted through Suprawall Corporation, New York City; VSG Ambit Vertriebs A.G., Schann, Liechtenstein; and Hambau G.b.m.H., Grossburgwedec, Germany. A significant part of the company's volume overseas is sold to the remodeling market.

—WELCOME TO THE FOLLOWING NEW ADVERTISERS—

DISPOSABLES, INC., Manhasset, New York—page 17

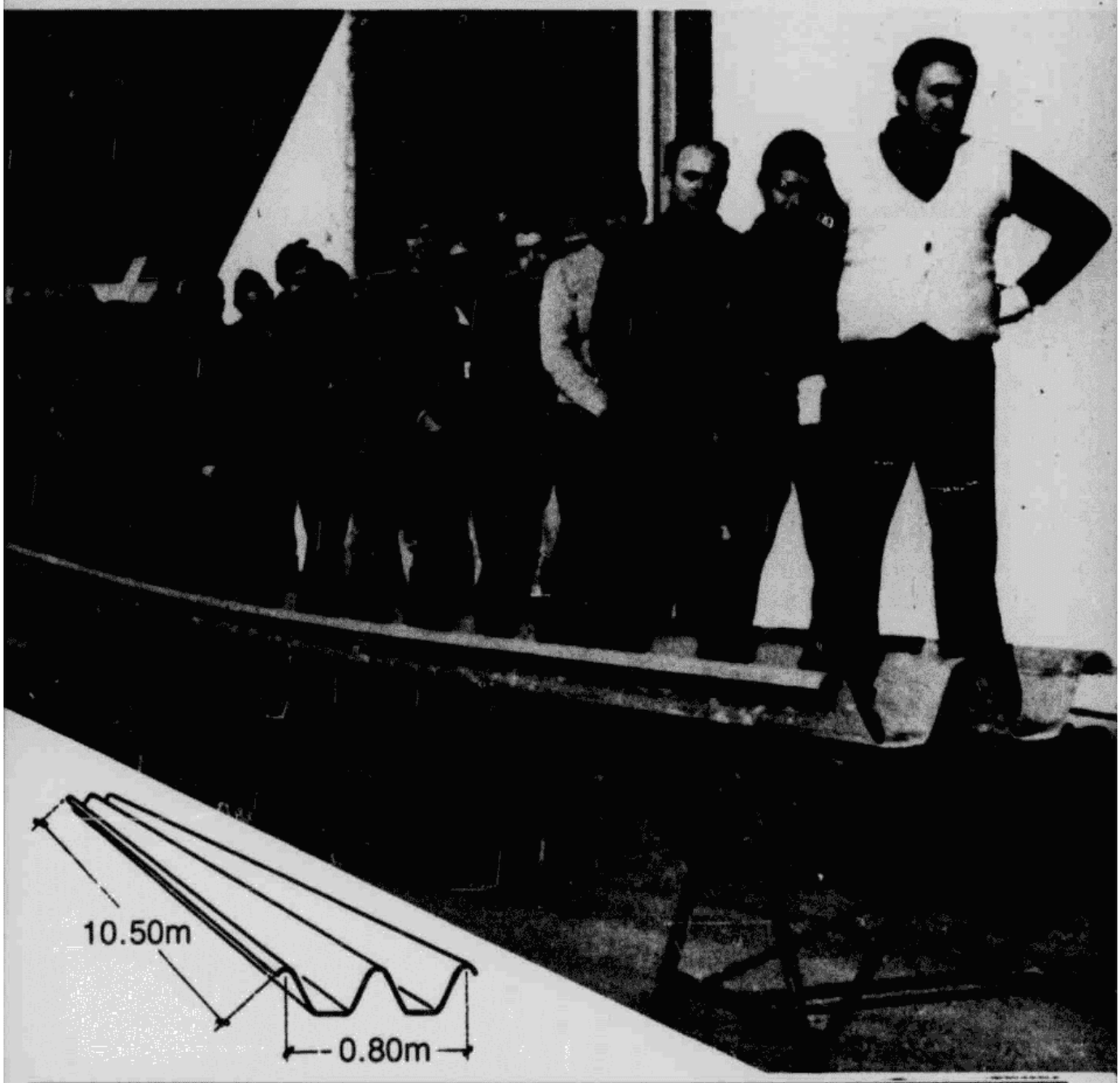
U.S. BEL-TYNE, Mountainside, New Jersey—page 25

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 40 of 62
Published by AsbestosClaims.Law
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steel
+ asbestos
+ cement

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ASBESTOS STOCK QUOTATIONS

CLOSE—JUNE 20, 1978

Abitibi Asbestos	C$.90
Advocate Mines	C$3.25
Armstrong Cork	17⅜
Armst. Cork (pfd 3.75)	46½
Asarco	15
Asbestos Corporation	C$42.75
Bendix	38⅞
Bendix (pfd 3)	78½
Carlisle	26½
Cassiar Asbestos	C$11.50
CertainTeed	20¾
Charter Conso.	pence 140
Colt Industries	53¼
Colt Ind (pfd 1.60)	28¾
Colt Ind (pfd 4.25)	81½
Conwest	C$5.875
Flintkote	26⅛
F-kote (pfd-B 2.25)	35½
GAF Corporation	13⅛
GAF (pfd 1.20)	17⅞
Gulf & Western	14½
G&W (pfd 2.50)	32⅞
G&W (pfd 3.87)	70½
G&W (pfd 5.75)	71½
IC Industries	25⅝
IC Ind (pfd 3.50)	42¾
Jim Walter Corporation	30½
Jim Walter (pfd 1)	11⅛
Jim Walter (pfd 1.60)	32⅜
Johns-Manville	30⅝
Kennecott Copper	22⅜
Lear Siegler	18¼
Lear Siegler (pfd 2.25)	44½
Maremont	21
McAdam Mining	C$.29
National Gypsum	17⅛
Pathfinder	C$.35
Porter (pfd 5.50)	75½
Raybestos-Manhattan	32¼
Rio Algom	C$31.625
Supradur	Bid 6; Asked 6½
Union Carbide	37⅞
Woodsreef Minerals	C$.52

Still Available . . . .

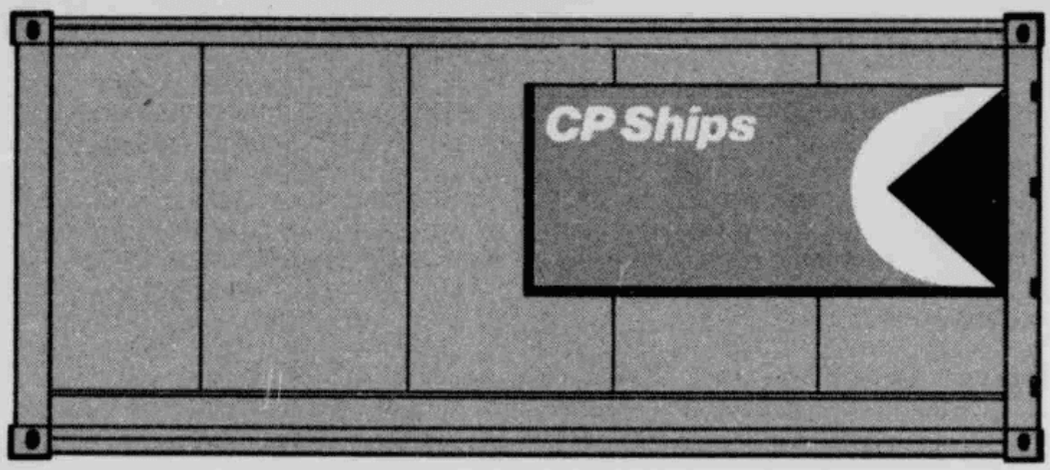
THE ASBESTOS FACTBOOK, 3RD EDITION—Compiled by the staff of ASBESTOS Magazine; written in layman's terms; offers useful information on the origin, locations and uses of asbestos; gives the chemical compositions of the various types of the mineral; contains data concerning testing methods and grades. [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. [$18.95 to the U.S., Canada and Mexico; $21.95 to all other countries; place orders with ASBESTOS Magazine]

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, July 1978
ACL Doc 12711 · Page 42 of 62
Published by AsbestosClaims.Law
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MEN ON THE MOVE

ASARCO INC.

Thomas C. Osborne was elected by the Board of Directors of Asarco Inc. as Vice President-Exploration, it was announced by *Ralph L. Hennebach,* President. Prior to joining the Southwestern Exploration Department in 1964, Mr. Osborne worked as an Exploration and Mine Geologist in Canada and Cuba, and in Mexico with what was then Asarco's Mexican Division. He was appointed Supervisor of the Canadian Exploration Division in 1966, Assistant Director of Exploration in 1971 and Director of Exploration in 1975.

CEMENT ASBESTOS PRODUCTS COMPANY

S. G. Leyshock has joined CAPCO, the Pipe Division of Asarco Inc., as Director of Engineering and New Development. Mr. Leyshock has a strong and successful career in asbestos-cement pipe engineering and production. He joined The Flintkote Company in 1961 as Electrical and Start-Up Engineer at the a-c pipe plant at Ravenna, Ohio. He then joined CertainTeed Corporation as Plant Engineer for the a-c pipe plant at St. Louis, Missouri, becoming Plant Manager in 1970. He is currently involved in updating and modifying the CAPCO pipe plant at Ragland, Alabama, and in completing the engineering for a new boiler and a new dust collector at the plant at Van Buren, Arkansas.

SOUTHERN ASBESTOS COMPANY

John J. Charles was appointed a Sales Representative for Southern Asbestos Company, responsible for customer sales and service in California, Oregon, Washington, Idaho, Nevada, Utah and Arizona. He had been associated with Globe-Albany, Environmental Chemical and Norton Plastic Components.

Arbrey P. Carrigan was named Purchasing Agent for Southern Asbestos, it was reported by *E. C. Bratt,* President. Mr. Carrigan's primary function will be total purchasing responsibility for the company. Secondarily he will assume duties in traffic management, concentrating on shipping schedules. He was formerly with Burlington Industries, Mayflower Plant, Cramerton, North Carolina.

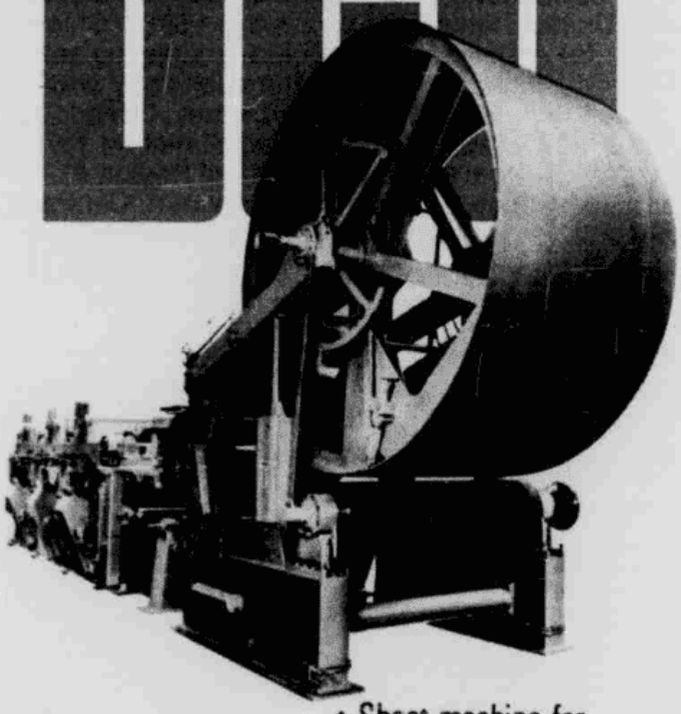
WOODSREEF MINES LTD.

Robert J. Merrill was elected to the Board of Directors of Woodsreef Mines Ltd., it was announced by *H. H. Robinson,* Managing Director. Dr. Merrill is Managing Director of Chrysotile Corporation of Australia Pty. Ltd., the wholly-owned subsidiary of WML which operates the asbestos mine at Barraba, New South Wales, Australia. He joined the Woodsreef Group in August 1977 with 28 years experience in the asbestos industry in Canada, having served as President of Carey-Canadian Mines Ltd., Quebec, from 1967 to 1973 and as President of United Asbestos Ltd., Ontario, from 1973 to 1977.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 44 of 62
Published by AsbestosClaims.Law
asbestosclaims.law/library/12711/44

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PAUL E. LECLERC—RETIRED ASBESTOS CORPORATION LTD.

After 50 years with Asbestos Corporation Ltd., *Paul E. Leclerc* will officially retire on August 1, 1978, as Sales Director, Region #1.

Mr. Leclerc joined the Corporation in 1928 as an office boy and became Record and Filing Clerk in the Sales Department in 1930. In 1939 he joined the Canadian Army, served in Northern Europe and returned in 1946 with the rank of Captain. He remained in the Reserve Army for several years, was promoted to Major and received the E.D.

Upon returning to Canada and ACL he was given the responsibility of more advanced sales work, going "on the road" and serving mainly in Canada and the United States. He relocated in 1961 in Chicago, Illinois, as District Manager for Asbestos Services Ltd., managing sales for the Corporation in Central United States until the subsidiary was abandoned in 1967. Mr. Leclerc then returned to Thetford Mines, Quebec, and continued to supervise sales in Canada and the United States. In 1973 he moved to the Sales Office in Montreal as Sales Director of Region #1, encompassing Canada, the United States, Mexico, the Caribbean, Central America and South America.

We join Asbestos Corporation Ltd. in wishing Mr. Leclerc and his wife, Alice, "many happy, worry-free years of retirement which he has so richly earned."

ASSOCIATIONS ELECT NEW OFFICERS

QUEBEC ASBESTOS MINING ASSOCIATION—M. J. Messel, President of Lake Asbestos of Quebec Ltd., was elected QAMA President for a second term. Other newly-elected officers are: Vice President—M. Dorais, President of Bell Asbestos Mines Ltd.; Treasurer—A. W. King, Controller for Carey-Canadian Mines Ltd.; and Secretary and Executive Vice President—P. A. Filteau. Additional Directors include M. Prus, President and General Manager of Carey-Canadian Mines, and J. R. M. Hutcheson, Chairman of the Board and General Manager of the Asbestos Fibre Division, Canadian Johns-Manville Co. Ltd.

NATIONAL INSULATION CONTRACTORS ASSOCIATION—The following officers were elected by NICA at its 23rd Annual Convention held earlier this year: President—E. N. Dillard, President of Insulation Services, Inc.; President Elect—J. S. Royer, President of Young Sales Corporation; Vice President—J. W. Liddell, President of A C & S, Inc.; Treasurer— D. C. Luse, President of Luse-Stevenson Company; Assistant Treasurer—O. E. Hyatt, President of Caudle-Hyatt, Inc.; and Secretary—J. T. Hunter, Chairman of the Board of Starr Davis Co., Inc.

INSTITUTION OF MINING AND METALLURGY—Dr. R. N. Pryor was appointed President Elect of the IMM. He is Professor Mining and Head of the Department of Mining and Minerals Technology, Royal School of Mines, London, England.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 46 of 62
Published by AsbestosClaims.Law
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BIRTHDAY GREETINGS to . . .

Julian P. Chilicote, Sales Manager for U.S. Export Sales, Raybestos-Manhattan, Inc., Trumbull, Connecticut, August 15.

John W. Hawkins, Director, Textile Research & Development Group, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, August 15.

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

Harry H. Robinson, Chairrnan & Managing Director, Woodsreef Mines Ltd., Barraba, New South Wales, Australia, and President, Woodsreef Minerals Ltd., Toronto, Ontario, August 16.

Robert M. Sturm, Vice President-Marketing, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, August 16.

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

Joan Holtze, Corporate Secretary, Continental Products Corporation, Chicago, Illinois, August 18.

Daniel L. Juhl, Vice President-Manufacturing, RM Friction Materials Company, Trumbull, Connecticut, August 18.

F. C. Kroft, Jr., President, Metals Division, Union Carbide Corporation, Niagara Falls, New York, August 18.

G. Oswald, Manager, Transport Division, Cassiar Asbestos Corporation Ltd., Whitehorse, Yukon Territory, August 18.

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

Robert B. Sims, Secretary & General Counsel, Raybestos-Manhattan, Inc., Trumbull, Connecticut, August 20.

James E. Fleeger, Executive Vice President & Chief Operating Officer, Standco Industries, Inc., Houston, Texas, August 21.

J. J. Ellis, Manager of Operations, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, August 23.

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

M. A. Bell, Finance Director, Turner & Newall Ltd., Manchester, Lancashire, England, August 29.

Ronald W. Godfrey, Vice President-Finance, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, August 31.

P. K. Mistry, Chairman, Hindustan Ferodo Ltd., Bombay, India, and Asbestos Cement Ltd., Delhi, India, subsidiaries of Turner & Newall Ltd., September 1.

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

Hermann R. A. Devriese, Product Research & Development Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, September 2.

Alexander J. Gillespie, Jr., Senior Vice President & General Counsel, Asarco Inc., New York City, September 2.

John D. Gillis, Manager-Marketing, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, September 2.

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

Curtis T. Mackey, Executive Vice President, National Insulation Contractors Association, Washington, D. C., September 6.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 48 of 62
Published by AsbestosClaims.Law
asbestosclaims.law/library/12711/48

J. L. Fenton, a Director, BBA Group Ltd., Cleckheaton, West Yorkshire, England, September 7.
J. L. Mitchell, Textile Consultant, Charlotte, North Carolina, September 7.
Walter H. Smith, Sales and Technical Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, September 7.
Philip M. Sullivan, Secretary, A & M Insulation Company, Chicago, Illinois, September 7.
A. H. Teare, Managing Director, Turners Building Products (Northern Ireland) Ltd., Turner & Newall Ltd., Ballyclare, Ireland, September 8.
William T. Teague, Sales Representative, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, September 8.
Robert H. Cuje, Senior Vice President, Building Materials Group, Johns-Manville, Corporation, Denver, Colorado, September 9.
P. C. Jones, Plant Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, September 9.
Frank H. Zimmerman, Corporate Director-Safety & Environmental Health, National Gypsum Company, Dallas, Texas, September 9.
Edward A. Farrell, Director of Sales, Lake Asbestos of Quebec Ltd., New York City, September 11.
Joseph Goldfield, Manager-Air Engineering, Johns-Manville Corporation, Denver, Colorado, September 11.
Bruce Klomfas, Plant Manager, Cement Asbestos Products Company, Van Buren, Arkansas, September 11.
W. P. Howard, Group Public Relations Adviser, Turner & Newall Ltd., Manchester, Lancashire, England, September 13.
Dr. Fred L. Pundsack, Executive Vice President-Operations and a Director, Johns-Manville Corporation, Denver, Colorado, September 14.

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VALUABLE LITERATURE

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ANALYTICAL CHEMISTRY AND SPECTROSCOPY—The following books were recently announced by Plenum Publishing Corporation: *Advances in X-Ray Analysis, Volume 20,* edited by H. F. McMurdie, et al., reports on diffraction and fluorescence analysis, work with highly radioactive samples, analysis at cryogenic and high temperatures and instrumentation and accessories for new applications [622 pages, $42.50]; *The Chemical Physics of Surfaces,* by S. R. Morrison, offers a unified description of behavior of solid surfaces, taking into account both chemical and electronic effects, properties and behavior [434 pages, $39.50]; *Environmental Chemistry,* edited by J. O'M. Bockis, is a definitive study of pollutants, their chemistry, social impact and methods of control [808 pages, $49.50]; *Laser Systems in Flow Measurement,* by T. S. Durrani & C. A. Greated, gives comprehensive coverage of conventional flow measurement techniques and laser systems, describes basic optical components and signal analysis hardware and turbulence statistics and applies photon-correlation methods to the measurement of periodic flows and turbulent diffusion and a laser Doppler velocimeter to time domain analysis of velocity [304 pages; $27.50].

TOXIC SUBSTANCES LAW & REGULATIONS 1977—Proceedings of the First Toxic Substances Control Conference held December 1976; examines the regulatory framework and describes the scientific basis for current concern, identifies potential civil and criminal liabilities for failure to comply with the law, analyzes the Toxic Substances Control Act (TSCA) and discusses the reactions of the U.S. Environmental Protection Agency (EPA), labor and industry to implementing the new legislation. [208 pages; $25.00; Government Institutes, Inc.]

TOXIC SUBSTANCES CONTROL II—Proceedings of the Second Toxic Substances Control Conference held December 1977; describes regulatory developments under TSCA and the Resource Conservation and Recovery Act; analyzes the impact on industry of the new amendments to the Federal Water Pollution Control Act and the Clean Air Act; examines such practical matters as the identification and classification of toxics, chronic effects, multiplicity of exposure questions, record-keeping requirements, export/import situations, EPA enforcement efforts, international standards, disposal, economics, the national cancer policy and women in the workplace. [256 pages; $25.00; Government Institutes, Inc.; also available on tape cassettes at $65.00 per complete set or $85.00 for the printed book and the cassettes]

THE ENERGY SOURCE BOOK—The result of an intensive effort to make available, in a single, easy-to-use volume, relevant and current data on virtually all aspects of energy; covers supplies by source, potential controls, preservation and alternatives; offers comprehensive projections on the future of energy; contains an index of over 800 entries. [736 pages; $49.50; The Center for Compliance Information]

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 50 of 62
Published by AsbestosClaims.Law
asbestosclaims.law/library/12711/50

PROCEEDINGS OF THE SYMPOSIUM ON HEALTH, SAFETY AND PROGRESS, 1976—Includes the 13 papers presented at the Symposium, the discussions, the opening and closing addresses and indices to both the Proceedings and the contributors; crystallizes the views of senior mining specialists and looks forward to possible needs in the future. [184 pages; £16.00; order from The Institution of Mining Engineers, Hobart House, Grosvenor Place, London SW1X 7AE, England]

INTERNATIONAL BUSINESS TRANSACTIONS TAX AND LEGAL HANDBOOK—By W. P. Streng, former Deputy General Counsel, Export-Import Bank of the United States; answers such questions as: How can an export sale be financed? How can a foreign subsidiary be organized on a tax-free basis? How can profits be repatriated from a foreign subsidiary with the least U.S. tax cost? What are the U.S. income tax consequences of various types of foreign exchange transactions? [700 pages; $39.95; Prentice-Hall, Inc.]

RECOVERY ENGINEERING NEWS—Monthly Bulletin concerned with recovering materials and energy from sources traditionally regarded as waste. [Sample copies and subscription information available from Recovery Engineering News, 263 South 44th Street, Philadelphia, Pennsylvania 19104]

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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.

British 1,501,937—A heat-generating material for foundry linings comprises 40%-60% by weight of aluminum dross, 1%-12% of asbestos, 3%-6% each of wood meal and phenolformaldehyde resin, 7%-25% of aluminum powder, 3%-15% of powdered iron oxide or manganese dioxide, 1%-6% of cryolite and up to 1% of a wetting agent; assigned to Tido Chemisch-Technische Produkte GmbH, February 22, 1978; 4 pages.

British 1,502,372—In the production of an improved heat transfer contact body, an assembly of layers of hydrated asbestos is coated with an inorganic strength-imparting material and the coated assembly is heated with hot gas to dehydrate the asbestos and form a ceramic-like body; assigned to AB Carl Munters, March 1, 1978; 4 pages.

British 1,502,373—A heat transfer contact body is made by sintering an assembly of layers of asbestos fibers containing a predetermined quantity of aluminum and silicon so as to obtain a body consisting of 47%-52% by weight of silica, 32%-40% of alumina and 12%-18% of magnesia; assigned to AB Carl Munters, March 1, 1978; 4 pages.

British 1,502,374—In the production of an improved heat transfer contact body, an assembly of layers of asbestos is treated with aqueous waterglass, heated to release water of crystallization from the asbestos and treated with an aqueous salt of magnesium, calcium or ammonium to restore the mechanical strength of the body lost due to heat transformation of the asbestos; assigned to AB Carl Munters, March 1, 1978; 4 pages.

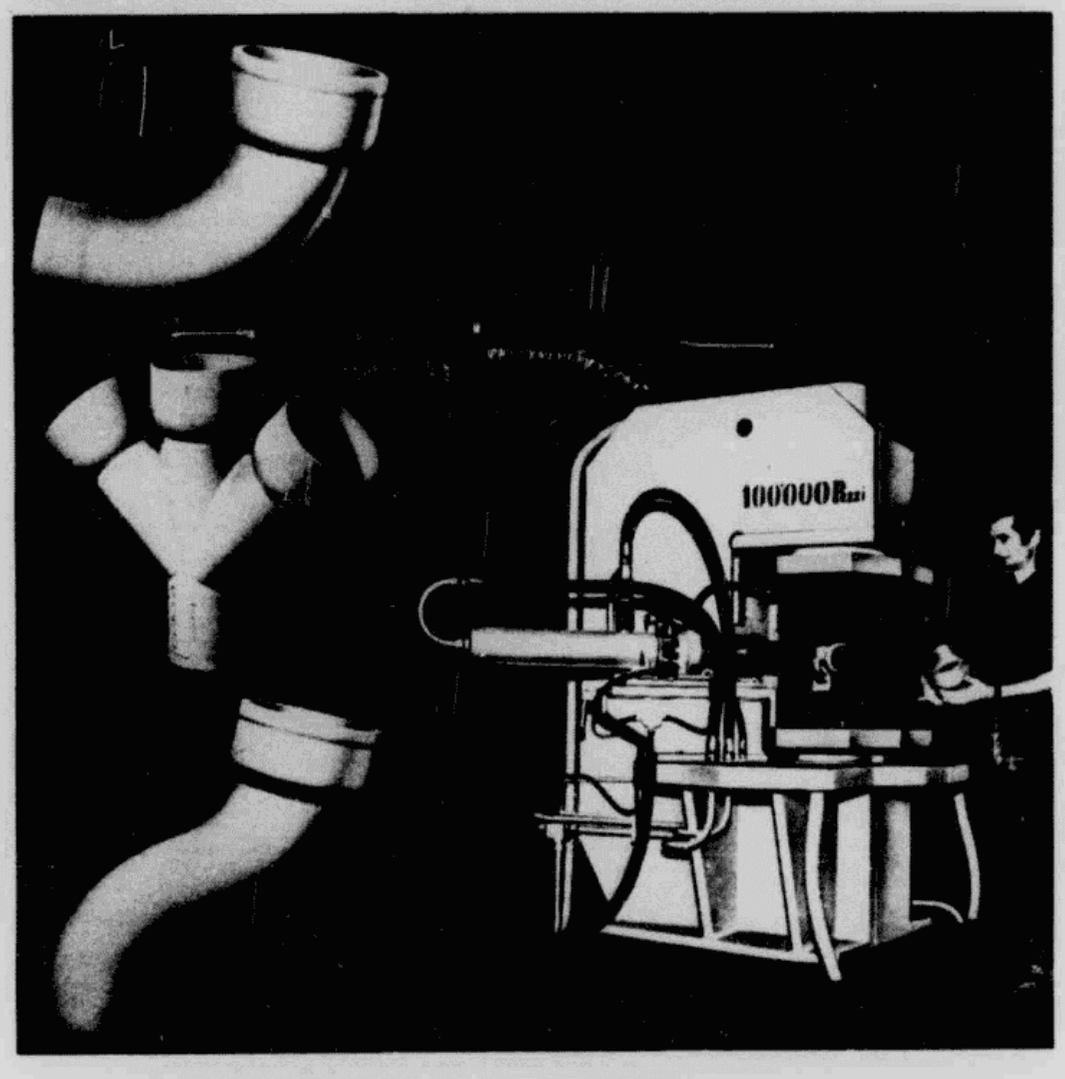
British 1,502,896—Abrasion-resistant, precision-molded articles are formed from a mixture of (1) 15%-60% by weight of a described low-profile resin system, (2) 5%-40% of long-fiber Chrysotile or Crocidolite asbestos, (3) alumina or other non-fibrous mineral filler and (4) 0.5%-10% of polyethylene or other polyolefin which is solid at room temperature; assigned to Rostone Corporation, March 8, 1978; 10 pages.

Canadian 1,027,071—In the separation of fibers from fines, a mass of comminuted and defiberized asbestos ore is charged at the inlet end of an elongated horizontal cylindrical screen and centrifuged at high speed, fed through the screen by means of a screw and brushed and blown against the screen so that fines are blown out through the screen and fibers are moved to the outlet end; J. L. Lees, A. K. Anthony & E. A. Taylor; assigned to Chrysotile Corporation of Australia Pty. Ltd., February 28, 1978; 19 pages.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 52 of 62
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ISPRA s.p.a.

Paderno Dugnano (Milan) — Italy —
Telex: 36113



"P 8" Plant — for the production of asbestos-cement fittings for pipes, gutters and similar articles

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ispra

Automatic INJECTION Plants

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CALENDAR OF EVENTS

OCCUPATIONAL SAFETY & HEALTH—Short Course covering biostatistics, industrial hygiene, occupational medicine-toxicology, nursing, safety and ergonomics and epidemiology; Ashville, North Carolina, *August 7-11.*

MODERN INDUSTRIAL SPECTROSCOPY—Short Course at Arizona State University, Tempe, Arizona, *August 7-18.*

ENVIRONMENTAL REGULATION & LEGISLATION—An intensive Seminar on environmental law for non-lawyers; New York University, New York City, *August 14-15.*

FUNDAMENTALS OF MINING—Short Course at the Mackay School of Mines, Reno, Nevada, *August 14-18.*

REMOTE SENSING—5th Canadian Symposium sponsored by the Canadian Remote Sensing Society; Empress Hotel, Victoria, British Columbia, *August 28-31.*

ENGINEERING GEOLOGY—3rd International Congress of the International Association of Engineering Geology; Madrid, Spain, *September 4-8.*

MINING ENGINEERING—Fall Meeting of the Society of Mining Engineers of the American Institute of Mining, Metallurgical and Petroleum Engineers; will convene at the Contemporary Resort Hotel, Lake Buena Vista, Florida, *September 11-13;* will reconvene at Loew's Paradise Island Hotel, Nassau, Bahamas, *September 14-16.*

RESEARCH & INNOVATION IN THE BUILDING REGULATORY PROCESS—3rd Annual Joint Conference of the U.S. National Bureau of Standards and the National Conference of States on Building Codes and Standards; Hilton Inn, Annapolis, Maryland, *September 12.*

TUNNELLING—3rd Australian Conference organized by the Australian Geomechanics Society; Sydney, Australia, *September 13-15.*

THERMAL INSULATION ASSOCIATION OF CANADA—16th National Conference; Jasper Park Lodge, Jasper, Alberta, *September 13-17.*

FLUID POWER—5th International Symposium organized by BHRA Fluid Engineering; Durham, England, *September 14-15.*

WATER IN MINING AND UNDERGROUND—International Symposium; University of Granada, Granada, Spain, *September 18-22.*

MICROSAFARI—10th International Micrographic Congress and Exhibition organized by the Microfilm Association of the Republic of South Africa; Carlton Hotel, Johannesburg, South Africa, *September 18-22.*

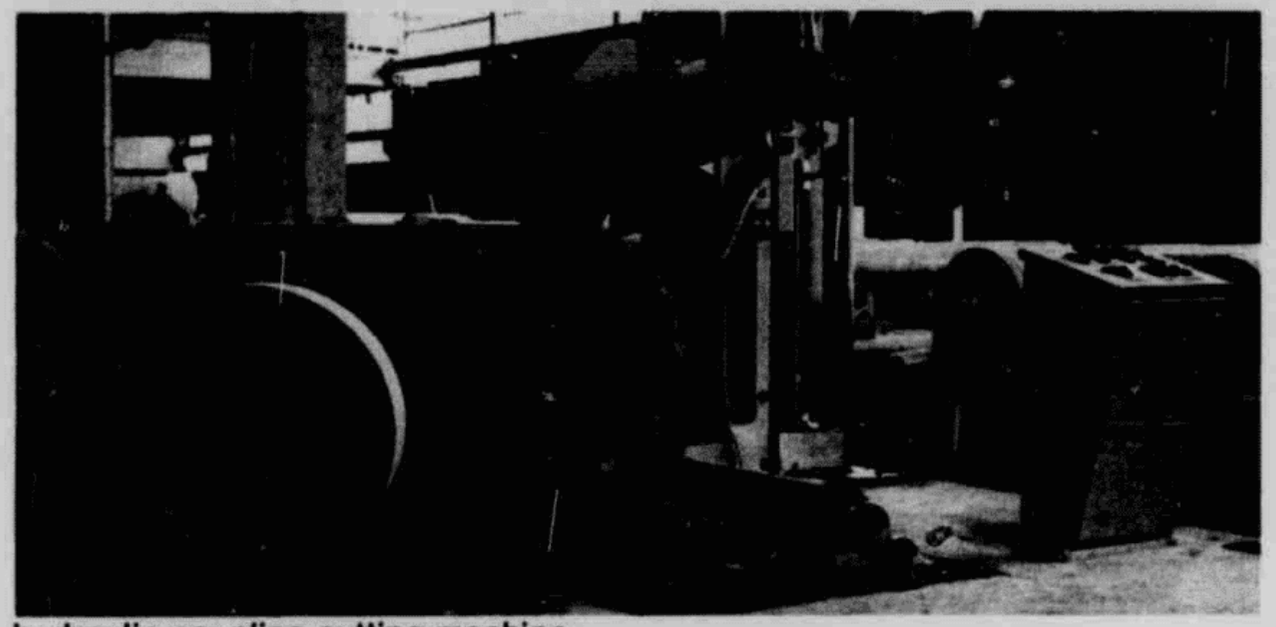
OCCUPATIONAL HEALTH—19th International Congress organized by the Yugoslavian Association of Occupational Health and the Institute for Medical Research and Occupational Health; Dubrovnik, Yugoslavia, *September 25-30.*

CANCER—12th International Congress held under the auspices of the International Union Against Cancer; Buenos Aires, Argentina, *October 5-11.*

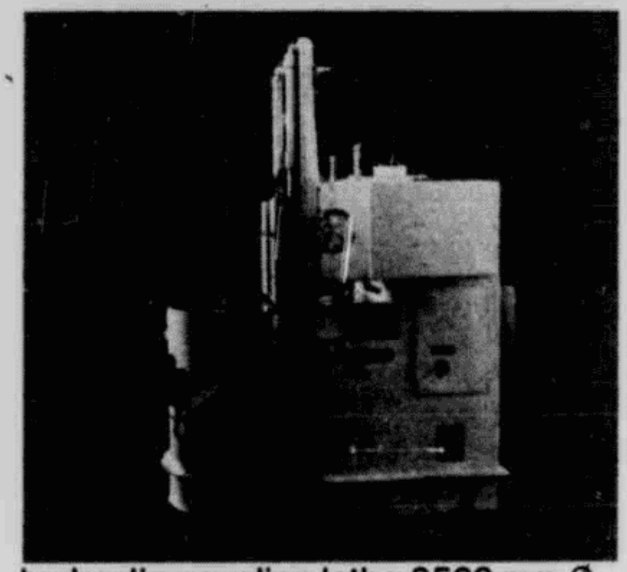
GEOMECHANICS—27th Colloquy of the Austrian Society for Geomechanics; Congress Hall, Salzburg, Austria, *October 12-13.*

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 54 of 62
Published by AsbestosClaims.Law
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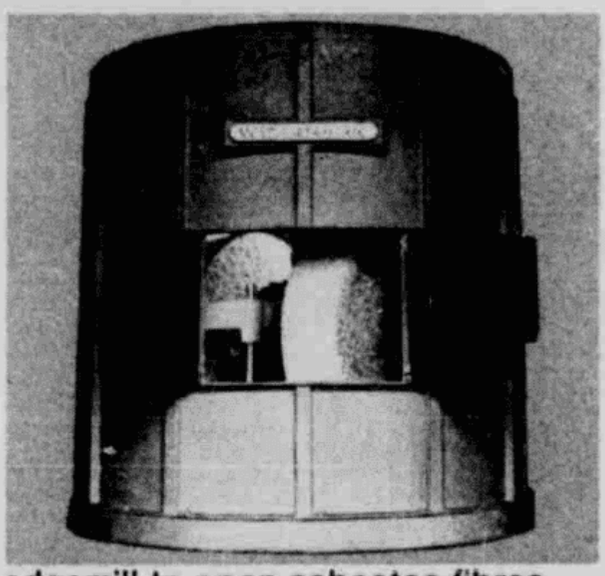
WEHRHAHN



hydraulic coupling cutting machine



hydraulic coupling lathe 2500 mm ∅



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...the first results will tell you why you chose WEHRHAHN!

Many fully-automatic WEHRHAHN- ac-plants produce sheets and pipes successfully all over the world. WEHRHAHN has experience for more than a man's age to construct economical ac-machines for the future. WEHRHAHN'S dynamic specialists assist you everywhere. It's their job! Why not contact them? Ask for up-to-date quotations too! Choose:

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HANDLING & HOLDING EQUIPMENT
Slings, Vises, Pushers, Pullers

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HOLE CUTTERS
Manual & Powered
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Chain & Blade Types

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ANCILLARY EQUIPMENT
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PILOT MANUFACTURING CO.

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Remember When?

(June 1928 ASBESTOS)

New Advertiser: The Spalato Portland Cement Cy. Ltd., Trieste, Italy

The lead article in this issue traced the history of asbestos air cell pipe covering and described the many variations and refinements made in that material through the early years of its manufacture.

Atlas Asbestos Co., of North Wales, Pennsylvania, was enlarging another of its buildings to accommodate its growing business. The company started with 1,300 square feet of floor space in 1922 and, with the latest addition, would be utilizing some 15,000 square feet as of its seventh year of business.

This issue contained a comprehensive summary of the asbestos milling methods then being employed in Canada, Cyprus, the Union of South Africa and Australia.

The New Amianthus Mines of African Asbestos Mining Co. Ltd. reported placing a contract for an aerial ropeway to transport asbestos crudes and fiber from its mine to the Elandshack Station of the Pretoria Delagoa Bay Line railway. Length of the ropeway was to be 5.8 miles as compared to a distance of 16 miles by existing roads, between the same points.

(July 1928 ASBESTOS)

It was noted that this issue marked the beginning of the tenth year of publication of ASBESTOS.

The Rhodesian & General Asbestos Corporation Ltd. announced completion of the new railway connection to its Shabani Mine. It took 18 months to complete the 63 miles of line from Somabula to Shabani at a cost of £315,000. The Mine, which then employed some 4,200 people, expected to achieve substantially increased output and employment as a result of the greatly improved transportation available.

A short biography of A. S. Royal, Manager of the Philadelphia District, Johns-Manville Corporation, was included in this issue.

An article excerpted from the South African Mining & Engineering Journal sounded a note of caution regarding the rapid proliferation of new asbestos mining companies in South Africa. The fear was that if the industry became over-capitalized it might subsequently suffer a severe deflation such as had occurred in the Transvaal platinum industry.

George D. Crabbs, President of Philip Carey Company, was awarded the degree of Doctor of Science by the University of Cincinnati and the degree of Doctor of Laws by St. Xavier College of Cincinnati. Both honors were the result of his leading role in construction and activation of the Cincinnati Railroad Terminal.

Johns-Manville announced the appointment of H. A. Kieselbach as Staff Manager of the Insulation Section and of F. J. Wakem as Staff Manager of the Packing & Power Specialties Section.

Asbestos Magazine, 1978, July 1978
ACL Doc 12711 · Page 58 of 62
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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.

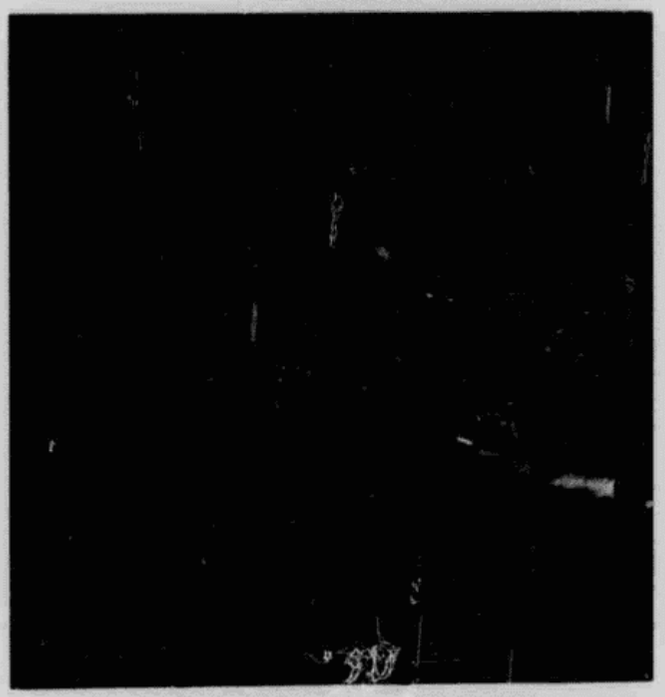
That's why we're investing heavily in a full-scale program of advertising appearing regularly in *Business Week*. The ads are full pages, in four color. And while the advertising investment is not nearly as large as that committed to our plant, it is in many ways just as important.

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

Johns-Manville

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Carey-Canadian is blessed with good mines.



At Carey-Canadian we hit the mother lode—several rich veins of fibrous Chrysotile Asbestos in Quebec that have served us well since 1918. They will continue to serve us for at least 50 years to come. Our outstanding quality,—uniformity, cleanliness and light color—is known throughout the world... but that's just the start of the Carey-Canadian quality story.

We start with the best raw material. Then we mill and refine and grade it with the finest equipment in the business. Over 30 grades of asbestos are produced by Carey-Canadian to fill every need from fillers in plastics to filter media.

The Carey-Canadian sales force takes it from there to assure your getting the right grade at the right price...on time.

Carey-Canadian... one of the largest, most trusted producers of Chrysotile Asbestos.

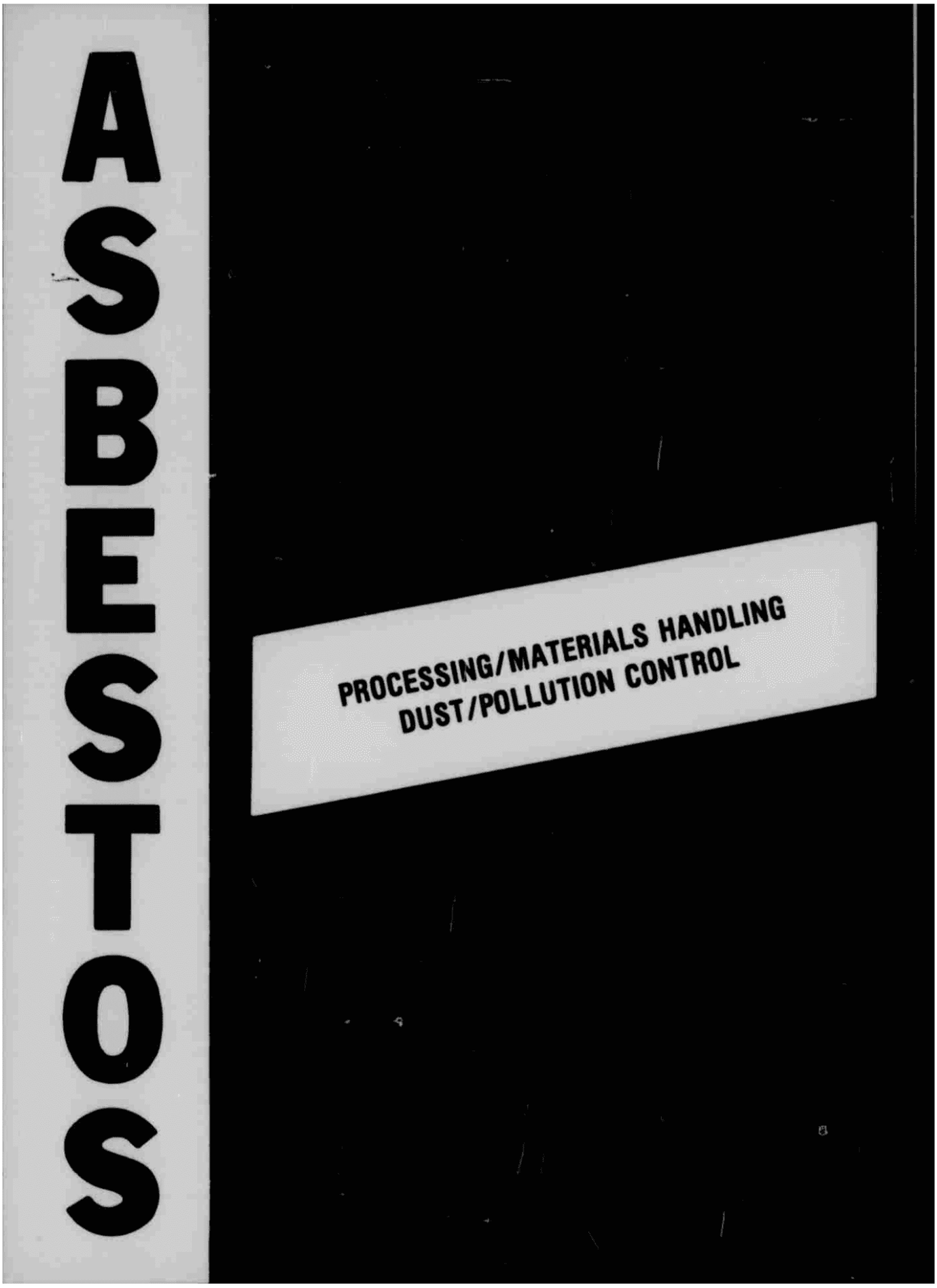
a Jim Walter company

CAREY. ASBESTOS FIBRE

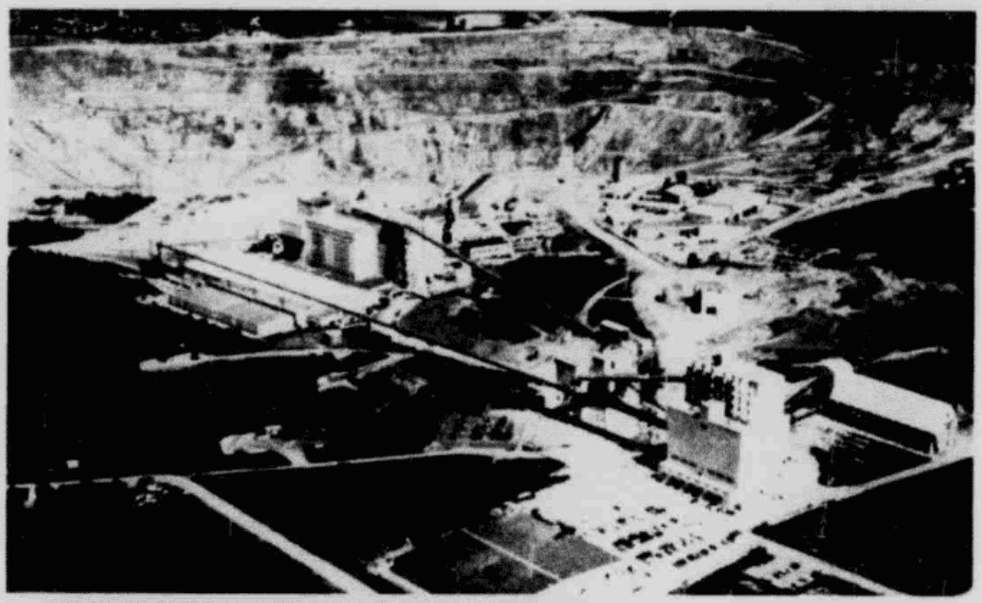
Carey-Canadian Mines Ltd. • P.O. Box 190 • East Broughton Station, P.Q. • Canada G0N 1H0
Phone: (418) 426-3050 • Telex: 05-834 554 CAREYMINE EABR • Cable: CARMINES EASTBROUGHTONPQ

OVERSEAS • ARGENTINA, Buenos Aires: Will L. Smith SACI • AUSTRALIA, Mt. Waverely, Melbourne: K. V. Robinson & Associates Pty. Ltd. • AUSTRIA, Wien: Robert Weisz • BELGIUM, Brussels: Keyser & Mackay • BRASIL, Sao Paulo: ICI-Intercambio Comercial Internacional Ltda. • COLOMBIA, Barranquilla: General Sales Corporation • Bogota: Alba Quimica • COSTA RICA, San Jose: General Agencies Co. • DENMARK, Copenhagen: Andreas Jennow A/S • DOMINICAN REPUBLIC, Santo Domingo: Muniz, Fernandez & Co. • EL SALVADOR, San Jose, C.R.: Alba Quimica • FINLAND, Copenhagen: Andreas Jennow A/S • FRANCE, Paris: G. Devineau S.A. • GERMANY, Duisburg: Deutsche Asbest-Gesellschaft, GmbH. • Lübeck: Possehl Erzkontor GmbH. • GUATEMALA, San Jose, C.R.: Alba Quimica • HONDURAS, San Pedro Sula: Abraham Sikaffy • INDIA, New Delhi: Toyo Menka Kaisha Ltd. • ISRAEL, Ramat-Gan: P.B.A. (Wiesner) Ltd. • ITALY, Torino: Angelo Baravalle • JAPAN, Tokyo: T. Kakiuchi & Co., Ltd. • MEXICO, Mexico City: Productos Quimicos Mardupol S.A. • NETHERLANDS, Haarlem: Vermeer Agenturen BV • NEW ZEALAND, Mt. Waverley, Melbourne: K. V. Robinson & Associates Pty. Ltd. • NICARAGUA, San Jose, C.R.: Alba Quimica • NORWAY, Copenhagen: Andreas Jennow A/S • PAKISTAN, Karachi: Toyomenka (Pakistan) Ltd. • PANAMA, San Jose, C.R.: Alba Quimica • SINGAPORE: Keenan & Associates • SPAIN, Valencia: Guzman S.A. • SWEDEN, Copenhagen: Andreas Jennow A/S • SWITZERLAND, Zürich: Keyser & Mackay • TAIWAN, Taipei: Hudson Enterprises Ltd. • TURKEY, Istanbul: Chemag Ticaret — Ithalat ve Ihracat • UNITED KINGDOM, London: Central Asbestos Co. Ltd. • VENEZUELA Caracas: Ing. N. Sekler, Oficina Tecnica s.rl.

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JM Johns-Manville

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