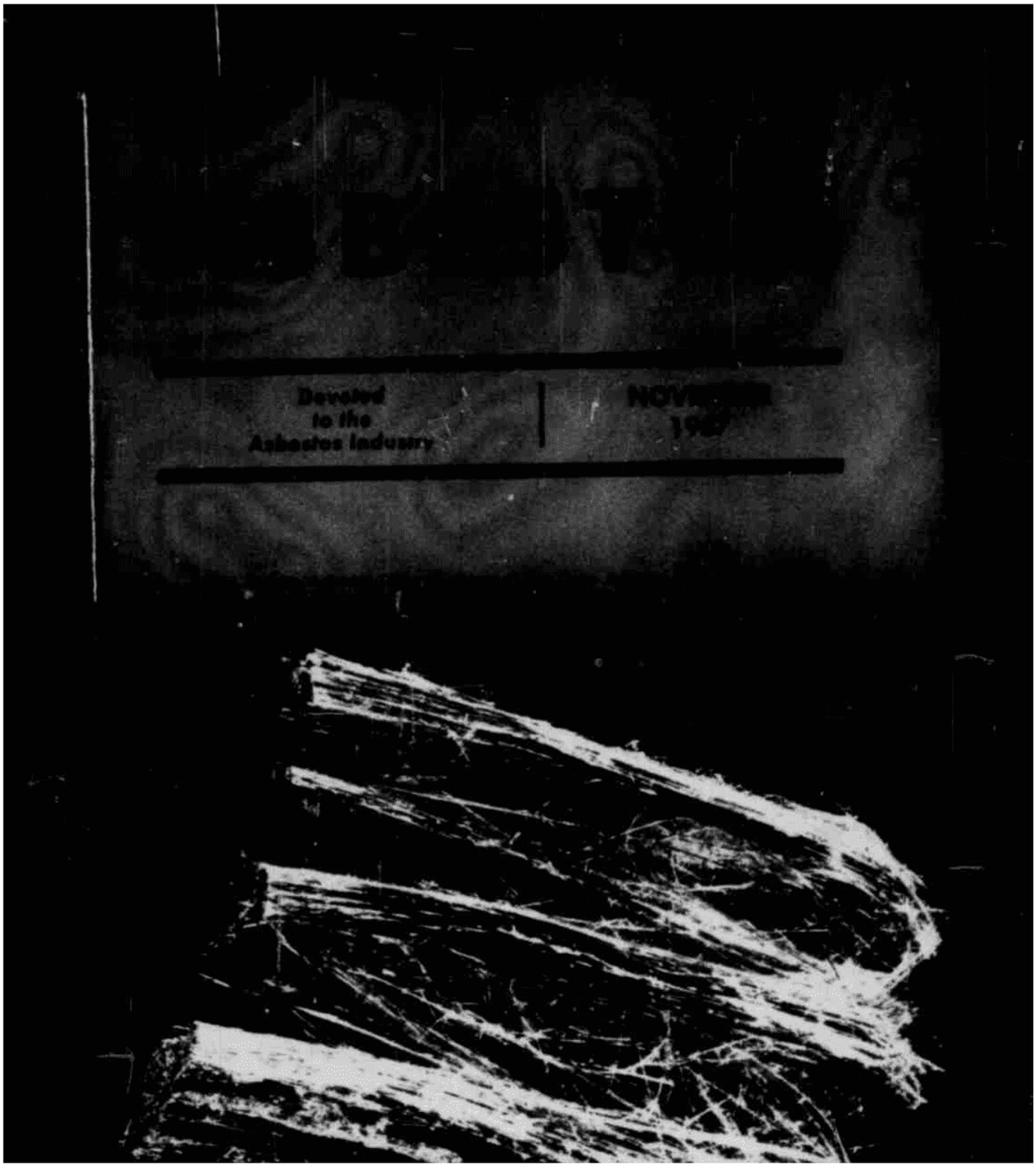
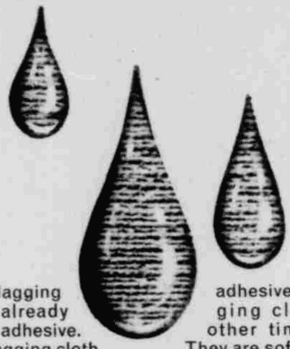


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ASBESTOS

VOLUME 49 NOVEMBER 1967 NUMBER 5

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Production Planning In Asbestos Operations

By: W. E. Sinclair (deceased)

Apart from the general aspects of efficient and economical production in any undertaking, planning the basic essentials in future operations is naturally a most important preliminary consideration. Wide vision and experience are necessary factors in the study of the countless details that must be considered in order to ensure progressive advance and continued coordination.

Planning production, as such, is usually accepted as a part of the intial work necessary in the layout of a new proposition and, of course, it is without question an essential procedure to establish effective and economical methods of working. Primarily, overall planning studies must include the selection and disposition of mechanical plant and equipment to achieve smooth and efficient productive operations in every section of the undertaking whether it be a mine, mill or factory.

Exactly the same modified procedure, it is suggested, should be applied in any current operations, in intermittent progressive stages, to aim at improved production conditions and reduced working costs. Included in every facet of planning ahead, apart from improved productive methods, consideration must be given to safeguard against emergencies, not only in possible changes in layout and possible breakdowns, but in such handicaps as a drop in ore values, asbestos prices and recessional periods that may affect regular production.

The allocation of the various sections of an undertaking for considered study should be the responsibility of different official executives. Then the following factors will constitute the basic fundamentals in future planning: possible alterations in development and extraction; mechanization, additions to plant or changes; ground support in drives or stopes; the possible introduction of systems of sorting; consideration of improved ventilation at depth; water supplies and drainage; and, milling and processing.

This summary includes only the major items under which many important details will emerge. The executives engaged on this study must work together since many ancillary matters closely connected with one or more sections will naturally link one with the other. In several instances in this summation,

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the question of capital expenditure and revised working costs must be considered as these affect the economic aspect of any major changes contemplated in the overall planning.

In many cases, where steady production is actually under way, there may not be the need for any basic or extreme change in methods of working. Nevertheless, there is usually an occasion when minor changes in different ancillary operations provide an opening to study improved conditions. As an example, the normal conditions of productive work may offer an opportunity to investigate the economic and technical matter of the rate of advance of secondary development. Such a case, in stoping for instance, may be a question of determining the advance to coincide with immediate requirements in extraction, similarly, a changed extraction system may offer improved methods of ground support.

Ground support is a pertinent question in asbestos mining because of the need to avoid the use of timber. The possible contamination of the ore and asbestos by wood chips is undesirable in the manufacture of many asbestos products. In these circumstances, it is important to realize that the question resolves itself into the choice of the following methods or appliances: steel sets, concrete, stone wall packs or rock roof bolting, depending on the rock structure and working methods.

While steel sets and concrete lining are generally accepted as being satisfactory forms of support in development openings, these are rarely suitable in stopes or wide working places. Stone wall and waste packing are methods usually applicable in narrow stoping systems. As a universally effective means of support, it has been proved that roof bolting is superior to most as being economical and generally suitable in the right conditions for most underground excavations.

The introduction of a sorting system, if not already employed, may be a useful innovation, if practicable, since the marked influence of this practice on operating results is generally favorably recognized. Of course, it is not always feasible to carry out sorting underground but it is a practice that should find a place in every mill, if it is only the sorting and selection of asbestos-bearing rock and the elimination of waste. The recovery of the long fibre from the ore before milling is an important operation, since the high value of crude is an economic consideration.

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Sorting, prior to milling, besides the removal of the gangue, also provides an opportunity for the extraction of any wood chips or other foreign matter that may have gotten into the ore. The reduction of wear and tear on milling machinery is almost as important as the other benefits gained by sorting out and discarding waste.

Where the shortage or high cost of labor is likely to make sorting difficult or costly, planning should be applied to mechanical methods of classification and the separation and extraction by screening out all long fibres immediately when they are released from the initial crushing process.

Like most maintenance work in mines, regular servicing is considered an essential routine job, especially as regards mechanical plant. Likewise, water supply and drainage questions are generally a matter of regular checks, although, because these works rarely reach proportions necessitating the serious study of hydromechanics, often little attention at all is given to the question. However, it should be remembered that there are conflicting conditions where water, if judiciously harnessed, spells power, but if uncontrolled, brings trouble or even disaster. Whether or not such a happening is likely to occur, the fact remains that, under certain circumstances, the question should be given some thought.

The hydroscopic nature of certain rock formations, such as serpentine (especially in and adjacent to the fibre-bearing zone), containing water is liable to cause the normal friable rock to become softer and then crumble. Associated minerals, such as talc or talcose schists, of a soapy texture, tend to aggravate the position by ending in falls of ground. This condition is not uncommon in any ultrabasic formation such as the amphibolite orebodies containing anthophyllite asbestos.

Drainage, in these circumstances, although possibly little more than relatively light seepage, is nevertheless of major importance. Control is usually exercised by employing the operation known as "face drainage" which includes the establishment of subsidiary catchment sumps. All small quantities of water are usually led in concrete drains or pipes to these sumps from which it is gravitated by means of syphons to the main pump station.

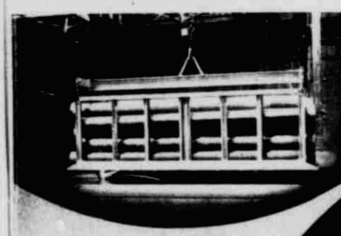
In any advanced planning projects, research investigations should play a part of the studies for future work. Re-

AUTOMATIC PLANTS TO MAKE SOCKETED PIPES

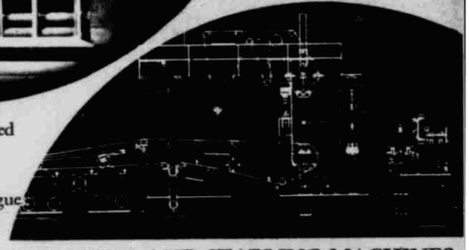


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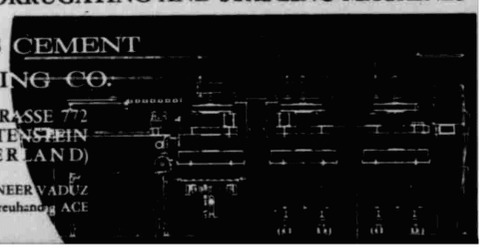


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search today, in every branch of productive work, has reached out beyond the precincts of the laboratory because it is now so closely related to technological advance in practice. Electronics and mechanical progress which, in turn, is identified with man in his work is the direct result of creative engineering. Similarly, in most operative techniques, with the tools found in every sphere today, research work leads on to increased economic productivity.

It may be said that in every field, research means simply a careful search or enquiry after or for something and, although we may not find the thing we are seeking, we are not likely to find anything unless we persist in the search.

In every mine, mill or factory there should be an organized and continuous quest for improvement in working methods and machines to attain better results. Apart from the stimulation of competition in the productive world, research work, by revealing the smallest details, at least tends to reduce working costs by reevaluating current methods and processes. More impressive results often assist materially in improving mechanical efficiency of standard machines and equipment. The beneficial results of such research suggestions may not appear overnight, since this class of work is uncommitted and no immediate findings can be expected, but it is certain that the whole economy of any undertaking is bound to benefit from critical investigation and creative research."

THERMOID/LAGGING CLOTH—A major development for asbestos insulating wrap has been placed on the market by the *Thermoid Division, H. K. Porter Company, Inc.* Designated Custom Lag Rewettable Lagging, *RWL-100*, the new product is an asbestos lagging material which has a built-in adhesive that impregnates the asbestos cloth throughout. Adhesive materials utilized in the lagging are completely inorganic, water dispersible, and also possess positive affinity to asbestos cloth. The rewettable lagging was developed at the Charlotte, North Carolina, asbestos textiles plant of the Thermoid Division, where all raw material for the adhesive is formulated and mixed.

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BRAKE SAFETY

(With all the controversy over automotive safety, Raybestos-Manhattan's Grey-Rock Division, a leading manufacturer of brake linings, has issued a brake safety kit containing six fact sheets of accurate technical material on brakes—one of the most vital safety features of a vehicle. Grey-Rock's experts will be glad to elaborate on any of this material or answer questions that might arise, particularly at the time that state or federal safety standards might be imposed on all automobiles sold in the United States.)

(Fact Sheet No. 5—Tips On Using Brakes Safety is published below. The remaining fact sheet will appear in a future issue of ASBESTOS and will cover quotes from experts on brakes. Fact Sheet No. 1 — Brake Types appeared in March 1967 ASBESTOS. No. 2 — Brake Lining Test Failures appeared in May 1967 ASBESTOS. No. 3 — Lack of Uniform Brake Lining Standards appeared in July 1967 ASBESTOS. No. 4 — What Mechanics Should Check and Repair in Inspecting Brakes appeared in September 1967 ASBESTOS.)

No. 5—Tips On Using Brakes Safely

1) *Do not* use the brake pedal as a foot rest when you are driving. You will be heating up the brakes and wearing them unnecessarily. They might not work when you need them.

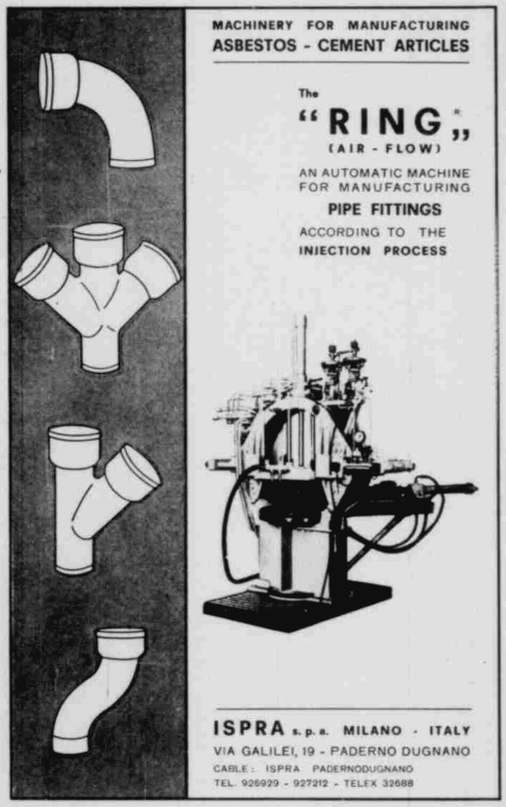
2) *Do* test your brakes after heavy use in traffic or down grades. If they are overheated, they might not work until they have been rested and cooled.

3) *Do not* touch your brakes if you have a blow-out at high speed. Wait until your car has slowed to at least 20 miles per hour before braking.

4) *Do* be careful how you use your brakes on icy or slippery roads. Intermittent light pumping action is best. One of the most dangerous times is right after rain starts when the water on top of oil and grease accumulations makes the road almost as slippery as ice.

5) *Do not* apply brakes if your car goes into a skid. Wait until you have regained control of the car.

6) *Do* know how far your car will travel before you can stop it — and keep your distance. Even if your reaction time is extremely fast and your brakes are in perfect condition, travelling only 20 miles an hour you would need a minimum stopping distance of 40 feet and travelling at 70 miles an hour a minimum stopping distance of 77 feet would be needed.



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7) *Do* have your brakes inspected (along with steering and tires) at least every 5,000 miles. If brakes need to be relined, insist on a top-quality nationally advertised brand.

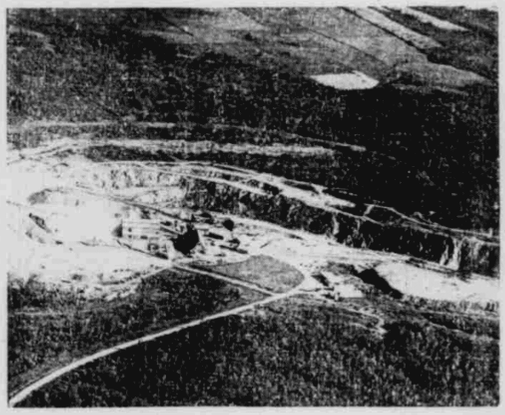
ASBEST CEMENT TECHNIK has commenced publication with the June 1967 issue. The magazine will be published every three months this year, and next year every two months. According to the editor, Ing. Heribert Hiendl, the publication will cover technical data dealing with the industrial side of the transformation of asbestos fiber into finished products.

AMERICAN MANAGEMENT ASSOCIATION has scheduled a Briefing Session on "Computer Programming Management Realities" at the Statler-Hilton Hotel, New York City, November 27th through 29th, 1967. Experts will present an overall look at the state of computer programming project management today. They will address themselves to such major questions as the human element, shortage of programmers, the development of standards, "Indoctrination courses" for top management and the establishment of guidelines to evaluate project objectives vs. actual achievements.

ASTM LIST OF PUBLICATIONS, issued September 1967, is now available and contains a list of more than 500 ASTM publications dealing with the knowledge of materials, materials evaluation, and the standardization of methods of test and specifications for materials. A single copy, requested on company letterhead, will be sent free of charge from the Society.

ASTM MEETINGS—Board of Directors meeting, ASTM headquarters, Philadelphia, Pennsylvania, January 14th through 16th, 1968; and, Winter Meeting, Chalfonte-Haddon Hall, Atlantic City, New Jersey, January 28th through February 2nd, 1968. As part of the Winter Meeting, the biological deterioration of nonmetallic materials will be examined at a symposium on January 30th.

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Fred A. Mett—Deceased

Fred A. Mett, founder and president of Powhatan Mining Company and pioneer and developer for uses of amphibole asbestos, died October 4th, 1967. He was 77. A native of Baltimore County, Maryland, Mr. Mett was what is known as a "self-made man."

When the supply of asbestos was cut off from the United States during the First World War, Mr. Mett was determined to search for a supply in this country. Powhatan Mining Company started in 1917 after locating the first deposit in Harford County, Maryland. From the beginning, he did his own mining and processing.

By 1930, the Harford County deposit was no longer productive and it was necessary to locate other deposits. Today, the company has mines in various localities of the United States, but the processing is all done in the Woodlawn Plant, Baltimore, Maryland.

Serving a large domestic and foreign market, Powhatan produces two types of asbestos: one is used by laboratory chemists for filtration; and, the other in the manufacture of plastic products. The asbestos produced by Powhatan is used in the filter known as "Gooch."

Mr. Mett frequently traveled in search of new asbestos deposits and had acquired a wonderful collection of samples of asbestos gathered worldwide

---

INSTITUTE FOR ASBESTOS INFORMATION, Subiaco, Western Australia, has concluded an agreement with Bell & Howell Company, of Cleveland, Ohio, by which the latter will produce *xerographic reprints* of previously unobtainable books on asbestos for IAI's customers. The reprints will be made individually, to order, from the Institute's *master microfilms*. Books which will become available under this arrangement include "Asbestos in the Union of South Africa, by A. L. Hall, "Asbestos and Asbestic", by Robert H. Jones (first published in 1897), and "Genesis of Chrysotile" (in Russian), by B. Y. Merenkov. IAI will be glad to receive suggestions for other out-of-print works which might merit reprinting in this manner.

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Tour of Canada's Asbestos Centers

Five Mexican business and government representatives took a two-week tour of Canada's asbestos centers. Sponsored by the Department of Trade and Commerce, Ottawa, the mission visited asbestos mines, testing laboratories and production facilities. The itinerary was arranged to demonstrate the wide scope of operations in Canada, the application of various production techniques and the steps taken to ensure quality control at every stage of the process. Mission members saw the best and most modern methods of production of the raw material and the wide range of products derived from it. The trade mission travelled to Montreal, Asbestos, Thetford Mines, Brantford, and Toronto and covered Canadian J-M's Jeffrey Mine and Truck Maintenance and Service Building, testing laboratories, Mill 5, asbestos products factory, an underground mine in Thetford Mines plus the Normandie Mine and Mill, and met with the management of the various asbestos fibre producing companies. Included in the tour was a visit to the Lafontaine and Atwater tunnels to see the unique use of asbestos (made for sound and lighting effects), and an asbestos-cement sheet construction project. They also toured Lynn MacLeod Capital Equipment Limited, Building Products of Canada Limited, Bauer Bros. Co. (Canada) Limited, The Flintkote Company of Canada Limited, and an asbestos-cement pipe installation project in the Toronto area. Further, the mission enjoyed a trip through Expo and to Niagara Falls before returning to Mexico.

THE MINING ASSOCIATION OF CANADA has available two very beautifully illustrated and factual booklets. *Mining in Canada* is a brief sketch, in facts and figures, of the importance of the mining industry and what it means to Canadians. *What the Mining Industry Means to Canada 1967*, centennial edition, offers highlights during 1966, a provincial review, past history and history in the making, ore reserves, exploration, the export market, how the mining industry helps to build a nation, research for the future, taxes, government services, shareholders, and a statistical review.

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Gebr. Wehrhahn — 75th Anniversary

Gebr. Wehrhahn, Delmenhorst, Germany, one of the leading manufacturers of machines and complete plants for the asbestos-cement industry, celebrated its 75th anniversary on November 2nd, 1967.

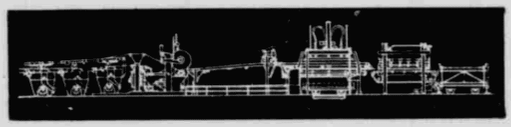
Originally engaged in building machinery for brick works and mills, the company, at a very early stage, recognized the prospects and, therefore, specialized in the development of machinery for the asbestos-cement industry. It has supplied over sixty asbestos-cement producing plants throughout the world. A whole series of notable new developments, particularly in the last few years, has considerably expanded the company's production program. These new developments refer not only to equipment for pressure pipe and sheet production, but also to the modernization and automation of material preparation and mixture.

Gebr. Wehrhahn is also supplying plants for the manufacture of sandwich panels for prefabricated houses. These elements are produced on the basis of asbestos-cement sheets and insulating cores of plastics, foam glass, foam polystyrol, etc. Today, Gebr. Wehrhahn employs more than 1,000 men in its 3 factories in Delmenhorst, Wildeshausen, and Dinklage.

AMOSITE IN EXOTHERMIC INSULATIONS—Because of the reinforcing strength and high heat resistance of amosite asbestos, it has become a component of many of the new exothermic and hot-top insulations now being used extensively in the foundry and steel industries. These insulations are used to line and to top the molds into which molten metals are poured to create billets, ingots and other shapes. The metals are poured at temperatures in excess of 2,400°, and the insulations in which amosite fibres are used are of a variety of types to cover a range of foundry applications. The insulations provide controlled cooling, and controlled shrinkage of the ingot. In some instances, powdered exothermic materials are included in the insulation to help delay and further control cooling of the metal. Through such control and reduction of shrinkage there is an increase of 5% to 8% of usable metal in the ultimate machining and finishing of the ingot.

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Machinery for the asbestos - cement industry is the result of more than a man's age of experience in the development, construction and erection of machines for asbestos-cement.



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socket pipes
flat sheets
corrugated sheets
shingles on machines of

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23rd Annual Meeting of ATI

The Asbestos Textile Institute held its 23rd Annual Meeting on October 5th and 6th, 1967, at the William Hilton Inn, Hilton Head Island, South Carolina. The meeting was very well attended and a majority of the delegates had their wives with them.

Reelected as officers were: President—John L. Rainey, American Asbestos Textile Corporation; Vice President—Edward A. Schuman, Johns-Manville Corporation; Treasurer—N. L. A. Martucci, Garlock, Inc.; H. E. Sunbury continues as Executive Secretary; and, P. Jay Flocken, of Cadwalader, Wickersham & Taft, remains as Legal Counsel.

Newly appointed as Chairmen of the working committees were: H. H. Walter—Air Hygiene & Manufacturing; J. W. Hawkins—Technical; M. Q. Scowcroft—Sales Promotion; and, G. F. A. Brink—Fiber Testing. Each of the retiring chairmen reviewed the work of his committee during the past year. President Rainey expressed sincere appreciation on behalf of the Institute for their faithful and efficient service.

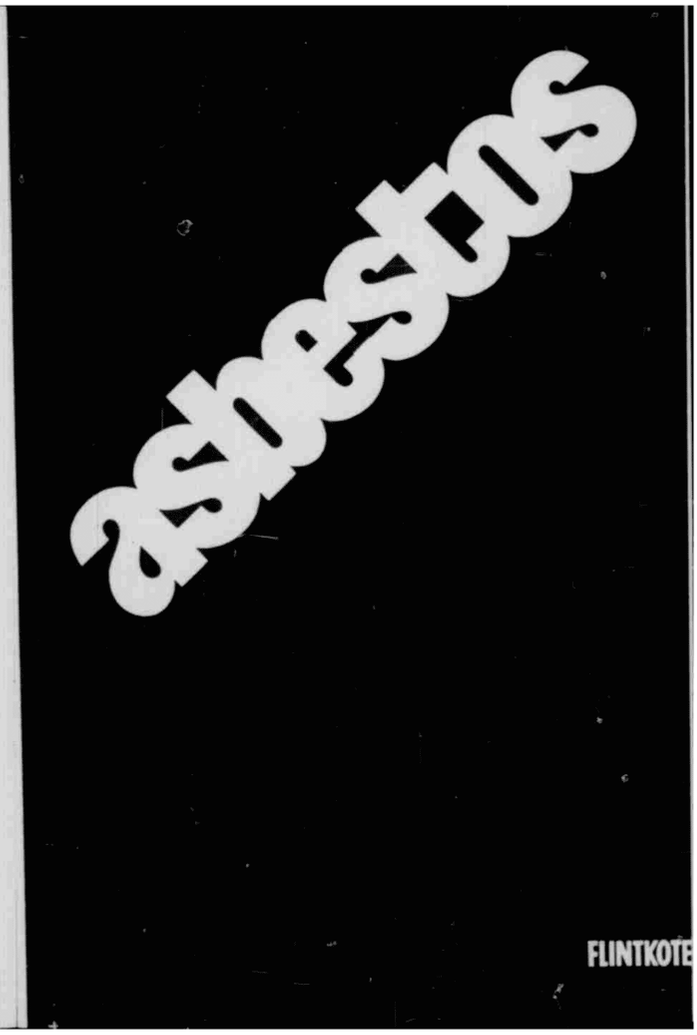
M. P. Carson, vice president-sales of Asbestos Corporation Limited, gave an interesting review of conditions in respect to the production of various grades of asbestos fiber and current demand for same in world markets.

William J. W. Smith, Bell Asbestos Mines Limited, reported on the new Clinton Mine of Cassiar Asbestos Corporation Limited, located at Clinton Creek, British Columbia, close to the border of Alaska.

Dr. Clinton H. Whitehurst, Jr., head of the Department of Industrial Management of Clemson University, as the principal speaker, gave a most interesting and informative talk on "Operations Research Techniques". As Dr. Whitehurst is very well known in industrial management and has published many articles pertaining to this field, ATI members were especially appreciative of the opportunity to hear him speak.

President Rainey announced that the Board of Governors had voted favorably on the application of Hilados Y Tejidos De Asbesto S.A., Toluca, Mexico, for Associate Membership in the Institute. This fine company is a leading manufacturer of asbestos textiles in Mexico.

THE NEXT REGULAR MEETING of the Asbestos Textile Institute will be held February 8th and 9th, 1968, at the Hotel Roosevelt in New York City.



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JOHNS-MANVILLE CORPORATION has made an inquiry of *Fibreboard Corporation* looking toward the purchase for cash of the Gypsum Division of Fibreboard and the two companies are in discussion on the matter. Johns-Manville is making a detailed study of Fibreboard's gypsum properties which is expected to take several weeks. If a formal agreement results from this study, it should be ready for submission to both boards late in November 1967.

JOHNS-MANVILLE now has available TR-504A, a new Installation Guide for Transite underground air duct. This handy, pocket-size 24-page Guide covers every basic step involved in all types of installations, from receipt and stockpiling of materials to backfilling and tamping. It is profusely illustrated with drawings and photographs that take all the guesswork out of installation. Copies may be obtained free upon request from J-M Pipe Distributors or directly from the company's Pipe Division.

JOHNS-MANVILLE CORPORATION's Summer 1967 issue of its booklet "Action" contains a very interesting coverage of Expo '67 entitled "Canada—Crossroads of the World," shows photographs of an aerial view of Isle Notre-Dame, Canadian Pavilion, Expo Stadium, Canadian J-M's exhibit, Czechoslovakian Pavilion, Expo Theatre, Labyrinth, Theme Pavilion, and lists many of the J-M products used throughout Expo '67. Also included are articles showing J-M's participation in the creation of the State University of New York, the construction of the new aircraft carrier "USS John F. Kennedy," and the building of the impressive and colorful Francisco Grande resort in Casa Grande, Arizona.

PARQUET TERRAFLEX, a new vinyl-asbestos floor tile with the mellow color and deep grain of hardwoods, has been introduced by *Johns-Manville Corporation*. Designed for use with traditional, modern and contemporary decors, Parquet Terraflex has an informal air which lends itself particularly to installation in family rooms, foyers, bedrooms, dens and kitchens. The new tile comes in a 12" x 12" x 1/16" size and may be used on, above or below grade.

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Automobile Sales

AUGUST 1967 motor vehicle factory sales from plants in the United States totaled 324,218 (passenger cars — 231,632; trucks and buses — 92,586). The total for August 1966 was 211,884. The total for the first eight months of 1967 was 5,748,204 compared to 6,692,615 for the same 1966 period.

Motor vehicle factory sales from plants in Canada totaled 43,399 for August 1967 compared to 21,991 in August 1966. The total for the first eight months of 1967 was 599,641 which compares with 582,353 for the same period in 1966.

U. S. IMPORTS of motor vehicles for the January through August 1967 period were: new passenger cars — 642,422 valued at $1,055,411,398; used passenger cars — 2,350 valued at $2,838,725; trucks and buses — 87,372 valued at $137,733,127; and, automotive parts were valued at $390,062,677.

ASBESTOS AT POMFRET is a very interesting article which appeared in the September 1967 issue of Mining Magazine. The Pomfret asbestos property is situated some 130 miles by road north of Vryburg in Cape Province, South Africa, and forms one of a block of farms owned by *Cape Asbestos South Africa (Pty.) Limited*. The article covers many informative facts concerning the mine and the quality and treatment of the ore and fiber. It also describes drilling, etc., when Cape Asbestos started mining on Pomfret in 1934.

ASARCO's capabilities in the packaging of asbestos fibres and zinc dust used in the manufacture of protective coatings were spotlighted at the *32nd Annual Paint Industries' Show* in Minneapolis, Minnesota. The packaging display was part of the American Smelting and Refining Company exhibit, and featured a wide variety of container designs which are used by the company. Along with its various packaging innovations, Asarco exhibited samples of asbestos fibers (produced by its Lake Asbestos of Quebec Limited subsidiary) used in the manufacture of asphalt-asbestos roof coatings and automotive underbody coatings.

If you use asbestos for



sheet gaskets



brake linings

or just about any other product, we have the fibre grade you need. You can specify from 43 different grades, so you're sure of getting *fibres of the correct length and with the proper degree of openness* for your products.

Lake Asbestos fibre is supplied in pressure-packed bags which are easy to handle . . . occupy little storage space . . . save on shipping costs. *For more information or test samples, write to:* Asarco International Corporation, P.O. Box 608, Black Lake, Quebec, Canada—distributors for Lake Asbestos of Quebec, Ltd.

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Bremen, W. Germany

BELGIUM
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ENGLAND
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FRANCE
Dieppedalle &
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GREECE
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Amsterdam

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JAPAN
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SOUTHEAST ASIA
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TURKEY
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ASARCO

ASARCO INTERNATIONAL CORPORATION
a subsidiary of American Smelting and Refining Company

LAKE ASBESTOS

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Building

SEPTEMBER 1967 value of contracts for future construction was $4,695,337,000, a 14% advance over the year-ago total. The construction sector is moving up very sharply right now and the effects of a make-up period following the depressed state that most building markets were in a few quarters ago is now evident.

Residential building contract value was $1,740,545,000, 36% above the September 1966 amount. One-family housing contracts soared 42% and apartment contracts jumped 36%.

Nonresidential building value was $1,785,816,000 a gain of 6%. Educational buildings and hospital construction experienced strong year-to-year gains, school building contract values topped last September's values by 21%, and contracts for hospital and health facilities were up 35%.

Nonbuilding construction contracts were valued at $1,168,976,000, a 2% advance over year-ago figures. Contracts for streets, highways, sewer and water projects were ahead by more than 20%. Utility construction work was down sharply in contrast to last year's unusually strong total.

FIRST NINE MONTHS 1967: Residential $14,596,389,000, down 1%; Nonresidential $15,234,851,000, up 2%; and, Nonbuilding $9,991,011,000, no % change—total construction $39,822,251,000, no % change from the first nine months of 1966. (F. W. Dodge Company, a division of McGraw-Hill, Inc.)

1968 CONSTRUCTION PICTURE—After two years of meager gains, the construction industry is expected to rebound during 1968 with total contract values climbing to a record $56,950,000,000, according to the F. W. Dodge Company. The anticipated gain would represent a 10% increase over 1967's total contracts for future construction—estimated by Dodge at $51,875,000 with eight-month figures already tabulated. This picture emerged in the *F. W. Dodge Construction Outlook 1968*, presented at the 29th annual Building Products Executives Conference sponsored by Dodge at the Statler Hilton Hotel. According to the forecast, Dodge sees improvement in all sectors of the industry next year.



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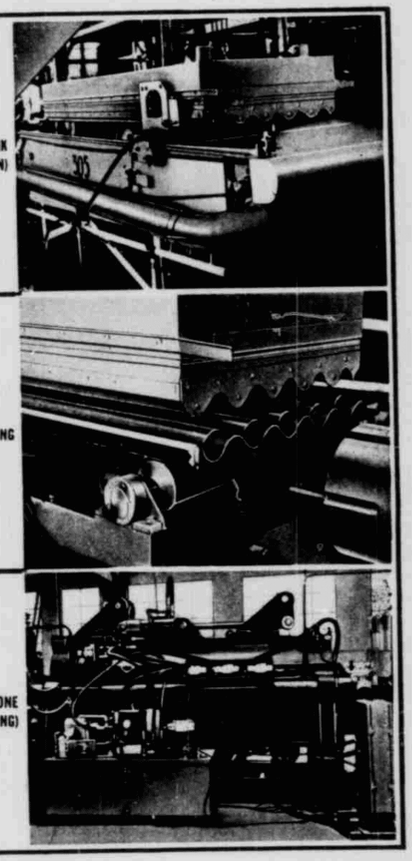
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MARKET CONDITIONS

General Business.

There are signs that the long-predicted upturn in business is now getting underway. Inventory is now being built up by many manufacturing plants as opposed to the cutting back which was general during the earlier part of this year. Inflation is still a big problem and the cost of living index increased substantially in September. It is interesting to note the strong opposition in Congress to the President's proposed tax increase measures, much of which is based on the premise, with which we agree, that the basic cause of our rising price levels is increased costs of production of practically everything we eat or use and the chief ingredient of these costs is the cost of labor. The recent settlement of the labor dispute at Ford Motor Company involves very substantial wage increases and fringe benefits and this will set a pattern for the other car builders, then for big busines in general and, finally, for all business that must compete for labor which is in short supply throughout the nation. While the large, mass-production industries can offset at least part of these increased costs by further automation, the smaller producer cannot afford the cost of such changes nor is his product always adaptable to automated processing. Hence, much of a general wage increase will eventually be reflected in increased prices at the point of sale. It is difficult to see how *either* a tax increase *or* cuts in Government spending can stop this continuing rise in prices due to wage increases. Perhaps "inflation" is the wrong word to describe this situation, because rising prices are *not* being caused by competition among consumers for a limited supply of goods.

Interest rates have now reached historically high levels with the Government's most recent financing. This may again lead to a shortage of mortgage money which could put a damper on the improving building industry.

Latest estimates indicate manufacturing industries are operating at about 84% of capacity on the average. It would seem that capital expenditures for increased productive facili-

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ties, under these conditions, might also be adversely affected by current high interest rates.

Asbestos—Raw Material.

Quebec asbestos fibre shipments for the Industry during September 1967 totalled 114,662 tons, an increase of 5,106 tons or approximately 5% over the same period last year.

Year to date shipments at 882,554 tons are running 70,783 tons or approximately 7% lower than the same period in 1966.

Asbestos—Manufactured Goods.

Asbestos Textiles. Asbestos textiles are in good demand and volume of procurements by the Government have made a significant contribution. There is considerable confidence that the high rate of productivity will continue, and that the industry's present sales momentum will be maintained for the balance of this year, and well into 1968.

Asbestos Brake Lining. The present situation of the market for this material is good and should continue to be good during the coming months.

Asbestos Filter Fiber. Demand for Arizona asbestos filter fiber is increasing and total for the 4th quarter of this year should be very good. Some grades are in short supply but all orders are being filled. The forecast for the future is that demand should continue to increase in volume.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

Wanted—Overseer for small plant on asbestos carding, spinning and cloth weaving. Excellent opportunity for man with practical experience. Send complete resume to:
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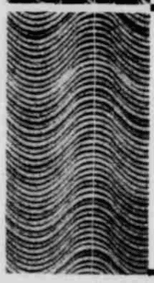
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J. M. VOITH A.G. – AUSTRIA

CIM/AIME MEETING—The fourth joint meeting of the industrial minerals divisions of the Canadian and American Institutes of Mining and Metallurgy was held October 1st through 4th, 1967, at Ville d'Esterel, Quebec, Canada. The technical program, centered around the theme "Man and Industrial Minerals" featured fourteen papers and among the topics discussed was a review on asbestos. Asbestos yesterday, today and tomorrow was reviewed by R. P. Ganon of Lake Asbestos of Quebec Limited. Modern exploitation of asbestos began about 100 years ago and has developed into an important worldwide industry. Past, present and possible future developments in milling and quality control were discussed briefly. Attention was also directed to the contribution of the Canadian asbestos industry to employment and to Canada's volume of exports.

Properties and end use applications of chrysotile asbestos from the New Indra deposit, California, was the subject of R. G. Woolery, technical manager-asbestos, for Union Carbide Corporation.

1969 ROAD SHOW—The 1969 Construction Equipment Exposition and Road Show, sponsored by the Construction Industry Manufacturers Association, will be held February 16th through 22nd, 1969, at the International Amphitheatre, Chicago, Illinois. It will feature more than 200 exhibitors representing all segments of the industry from small tools to heavy construction equipment. There will be 585,000 square feet of inside exhibits alone. The shows are held every six years.

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BAUER/LIQUID CYCLONE—A lightweight, extremely strong liquid cyclone of plastic construction is to be shown for the first time at the 31st Exposition of the Chemical Industries, at New York City's Coliseum, November 27th through December 1st, 1967. The new device, designed for continuous classification, decanting, fractionation, thickening or similar operations, will be introduced by The Bauer Bros. Co. and a transparent demonstration model will be in action in the company's booth, No. 4916-4918. The plastic combines high impact strength, dimensional stability, low moisture absorption properties, excellent wear characteristics and is compatible with a wide range of chemicals and processing slurries up to 180°F.

Bauer will also show equipment for digestion, pulverization, wet and dry classification and fluid expression. Operating models of the M&D continuous digester and the Hurricane Pulverizer-Classifier will demonstrate the unique production advantages of these specialized units.

NATIONAL FIRE CODES, 1967-68 edition, is now available from the National Fire Protection Association. Published in 10 volumes, the Codes consist of 192 authoritative fire safety standards, codes, recommended practices and manuals. Incorporated in the new edition are complete texts of all 44 reports adopted at the 1967 NFPA annual meeting. Codes are priced at $4.00 per volume and $30.00 for the complete 10-volume set.

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Remove gritty foreign material such as silica, iron, mica and sand . . . unopened fibre bundles . . . serpentine . . . fibre bound magnetite . . . simultaneously and without fibre loss . . . with this Bauer multi-phase equipment.

Centri-Sonic Classifier—Sharp classification anywhere in the 200 mesh to 15 micron range.

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BAUER

CAPE INSULATION LIMITED's technical service laboratory, Reinforced Plastics Division, is now located on Freshwater Road in Chadwell Heath, Essex, England. This laboratory is designed for the further development of Noramite plastics reinforcement materials and their applications.

SMALL & PARKES EXHIBITS—Don and Capasco brake linings and disc brake pads were exhibited by Small and Parkes Limited at the International Motor Show, Earls Court, England, October 18th through 28th. Also shown were genuine Girling and Lockheed replacement brake shoes and disc pads, Borg and Beck clutch covers, driven plates and release bearings and Donvee Fanbelts. From November 10th through 18th, 1967, Small and Parkes are exhibiting these products at the Scottish Motor Show, Kelvin Hall, plus brake linings and clutch facings for commercial and public service vehicles, the Donflex clutch plate for commercial vehicles and the Don Brake Meter for testing vehicle's brakes.

CAPE BUILDING PRODUCTS LIMITED, at the International Building Exhibition, Olympia, London, England, November 15th through 29th, 1967, has devised its Stand No. 191 to provide a highly efficient information service to any member of the building professions. The visitor will be able to discuss any aspect of the company's activities, and by the use of random selector projectors and other techniques, product applications and erection sequences, etc., can be illustrated and discussed in detail. The stand, as interesting as it is different, is a tower of Cape red Glasal, the inside faces of which act as vertical display areas of the company's projects.

In Componex, Cape Building Products was selected to represent the building industry in the field of technical communication. Also, Cape Building Products ceiling components have been used by Componex in various areas and are related to the Communications display.

STANDCO ASBESTOS TEXTILE CO., INC.
ESTABLISHED 1912
Manufacturer of Cloth, Tape, Yarn and Brake Lining
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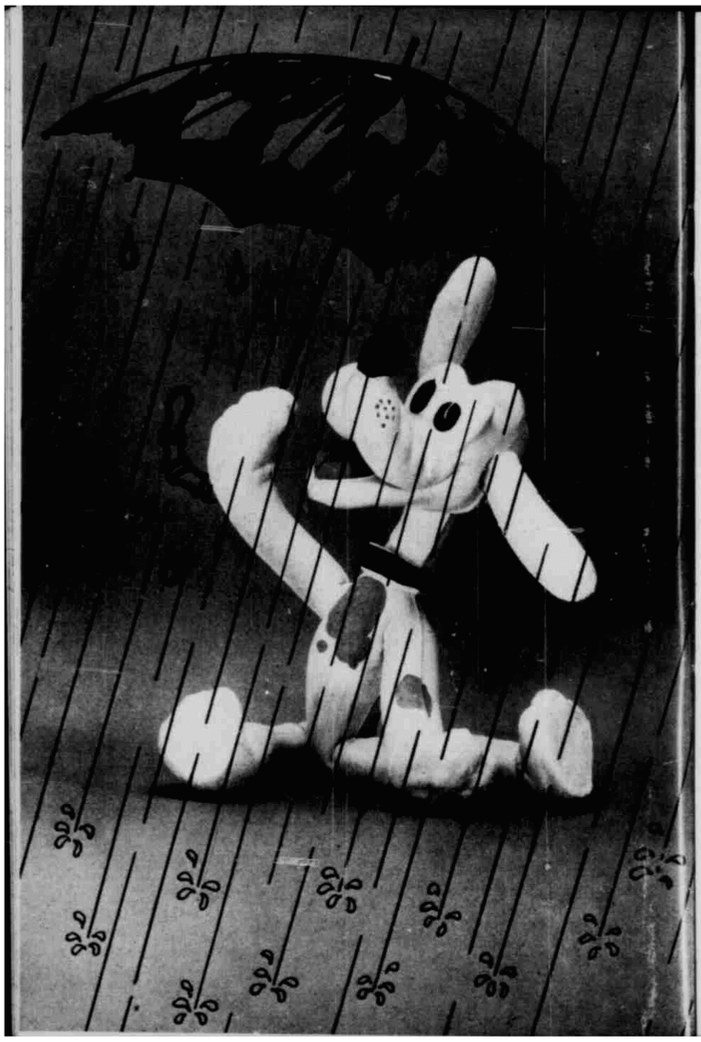
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PRODUCTION

Canada—JUNE 1967 asbestos production amounted to 137,305 tons (Quebec—124,764; Newfoundland, Ontario, and British Columbia—12,541). This compares with the June 1966 total of 140,920. Total for the first six months of 1967 is 636,463 tons compared to 666,423 for the same period in 1966. (Dominion Bureau of Statistics, Ottawa.)

Canada—JULY 1967 asbestos production amounted to 103,646 tons (Quebec—91,412; Newfoundland, Ontario, and British Columbia—12,234). This compared with the July 1966 total of 116,626. (Dominion Bureau of Statistics, Ottawa).

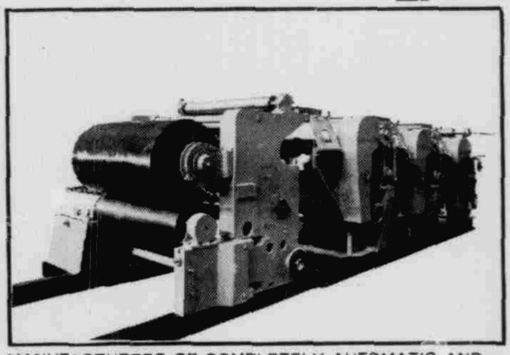
South Africa's asbestos production, during the past sixty years, has increased a thousand fold. In this dynamic development, the **North Western Cape** province has played a leading role, where output has increased from a meager 18,000 tons in 1957 to over 100,000 tons a year, valued at almost $19-million. A total of over $196-million worth of asbestos has been mined in the North Western Cape mining area.

World Mineral Production In 1966 (annual mineral industry survey, U.S. Bureau of Mines, single copy can be obtained without charge)—World mineral production reached a new high in 1966. Fourteen of the 23 non-metallic minerals included in the tabulation rose to new production highs, including asbestos. Tables giving details on world production for the years 1962 through 1966, geographic details of world mineral production in 1966, and a recapitulation by hemispheres and continents are presented in the survey. In evaluating this data, there is no adequate base for estimating production in countries other than those in the free world. The free world accounts for around 69% or more of the world's asbestos-cement output. The table on world production shows the preliminary asbestos figure at 3,040,000 metric tons in 1966. This excludes a negligible amount produced in Czechoslovakia, Eritrea, Malagasy Republic, North Korea and Rumania. The table on percentage distribution of world production gives the following on asbestos: North and Central America —47.9; South America—0.1; Free Europe—3.5; East Europe (estimate)—27.6; Free Asia (estimate)—1.5; China, North Korea and North Vietnam (estimate)—4.3; Africa—14.7; and, Oceania —0.4.

ASP/HAC/19

asbestos cement plants





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PLANT MANUFACTURING DIVISION HYDERABAD-18 INDIA

IMPORTS & EXPORTS

Exports From Canada

[Published by Dominion Bureau of Statistics]

JUNE 1967

Unmanufactured Asbestos:

Short Tons

	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
United States	2	1,567	12,791	35,768
United Kingdom		616	3,481	4,275
South America		8	2,231	817
Central America & Mexico		70	2,060	847
Europe	5	360	13,310	11,526
Japan	7	56	1,312	4,584
Other Countries		132	8,455	3,718
	14	2,809	43,640	61,535

Total Unmanufactured Absestos—107,998 Valued at—$13,121,000

Manufactured Asbestos Goods:

Asbestos Brake Linings & Facings	$ 47,000
Asbestos-Cement Building Materials	123,000
Asbestos Basic Products, Other	25,000
	$195,000

Greece Imports—During 1965, Greece imported 4,468 metric tons of asbestos (1,724 from South Africa; 929 from the USSR). This compares with 4,958 metric tons in 1964 and 2,815 in 1963. Czechoslovakia, Italy, Yugoslavia, and France were the supplying companies for imports of asbestos-cement products into Greece: 3,415 metric tons, in 1965. Figures were 2,452 for 1964 and 4,438 for 1963. (U. S. Minerals Yearbook 1965)

Swaziland exported 36,142 short tons of chrysotile asbestos, during 1966, valued at R4,986,804. Countries importing this fibre were Argentina, Belgium, Denmark, Eire, Finland, France, India, Nigeria, Norway, South Africa, Spain, Sweden, United Kingdom, and a sample to West Germany.

Swaziland—Of the R3,776,000 worth of goods exported from Swaziland to Britain in JULY 1967, asbestos accounted for R858,000.

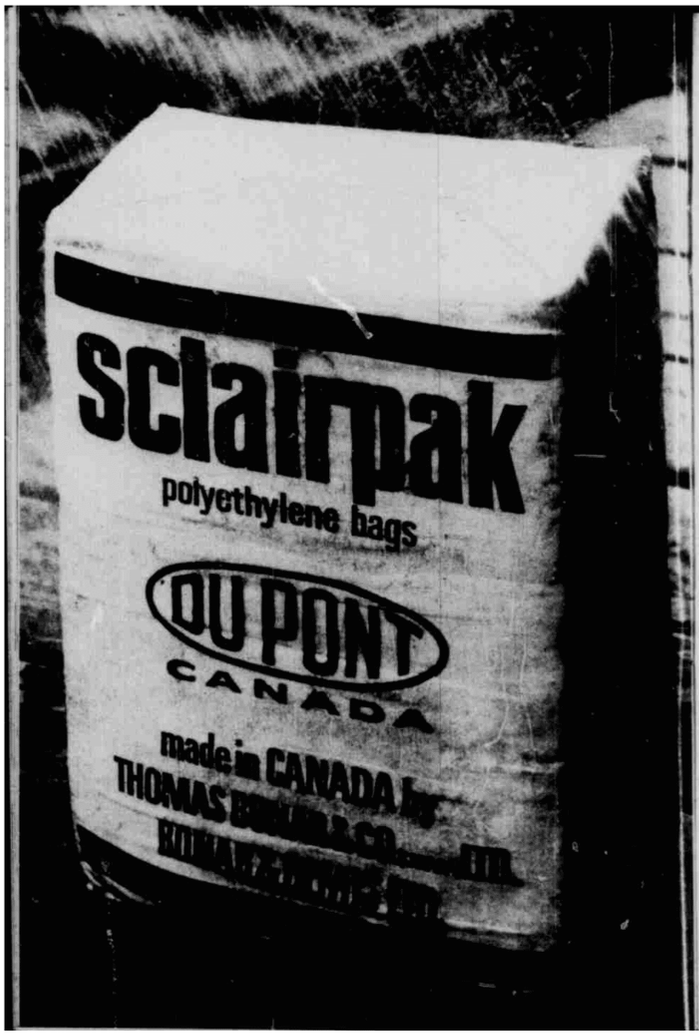
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The tensile, impact and tear strengths are all well above typical industry averages for other industrial polyethylene bags. Nothing is sacrificed for strength and protection. In fact, due to its unusual molecular structure, the more it stretches, the tougher 'Sclairpak' gets!

Heat sealing may be carried out as with other polyethylene bags or by using the new automated flat-end heat sealer available from Thomas Bonar / Bonar & Bemis. Labels and trademarks printed directly on 'Sclairpak' bags remain clean, sharp and legible. Clear film permits quick inspection by customers without the need for opening bags.

For full information contact Thomas Bonar & Co. (Canada) Ltd. and Bonar & Bemis Ltd., exclusive 'Sclairpak' suppliers. Or write: Du Pont of Canada Limited, Dept. A-SP-2, Box 660, Montreal 3, Que.

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DU PONT
CANADA

'Sclairpak' is the registered trademark of Du Pont of Canada Limited, for its high-strength industrial polyethylene bag.

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INDUSTRY NEWS

HAPPY BIRTHDAY

John Waddell, Chairman & Joint Managing Director, Turner Brothers Asbestos Co. Ltd., Rochdale, England, November 15.

J. J. Mangan, President & Managing Director, Hedman Mines Limited, Timmins, Ontario, Canada, November 16.

R. V. Hanslip, Vice President, Standco Industries, Inc., Houston, Texas, November 17.

Stanislaw Stachelski, Chairman, Valley Asbestos (Pty) Limited, Johannesburg, South Africa, November 19.

J. J. Walsh, Vice President-Sales, Canadian Asbestos Company, St. Laurent, Montreal, P.Q., Canada, November 19.

F. A. H. Gallop, Vice President-Building Materials, Canadian Johns-Manville Co. Ltd., Port Credit, Canada, November 20.

Thomas H. Dermody, Sr. Vice President-Finance, The Ruberoid Co., New York City, November 21.

H. C. Papritz, Vice President & Treasurer, Nicolet Industries, Inc., Florham Park, New Jersey, November 21.

J. A. D. Marcotte, Special Assistant to the President, Asbestos Corporation Limited, Thetford Mines, Canada, November 22.

E. J. O'Leary, President, The Ruberoid Co., New York City, November 24.

William H. Parker, General Manager, Cold Storage & Wall Insulation Division, Canadian Asbestos Company, St. Laurent, Montreal, Canada, November 25.

Miles M. Wilson, Vice President, Baldwin-Ehret-Hill, Inc., Trenton, New Jersey, November 28.

John G. (Jack) Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, November 29.

Susanne Servin, Manager-Advertising Service, The Ruberoid Co., New York City, December 1.

Frank G. Ruggles, President, Frank G. Ruggles Company, Inc., Short Hills, New Jersey, December 2.

Edmund F. Gorton, General Manager, Asbestos Corporation of America, Garwood, New Jersey, December 3.

K. Fred Netter, President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, December 3.

George H. Martens, Jr., Vice President for Marketing, Johns-Manville Corporation, New York City, December 5.

P. M. Berry, President, Standard Asbestos Manufacturing Company of Cleveland, Cleveland, Ohio, December 8.

J. C. McKendry, President, Niagara Asbestos Company, Buffalo, New York, December 10.

Frank W. R. Douglas, Director, The Cape Asbestos Co. Ltd., Tolpits, Watford, Hertfordshire, England, December 11.

James A. Main, Vice President, Flintkote Mines Limited, New York City, December 14.

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PERSONNEL NEWS

THE FLINTKOTE COMPANY

MONTE C. CARPENTER—vice president and general manager of the building products group; will have responsibility for all aspects of research and development, manufacturing and marketing of the group's extensive line of building and construction products in the United States.

JOHNS-MANVILLE CORPORATION

GORDON READ—vice president of J-M International Corporation; continues in his position as director for Far Eastern Operations.

NATIONAL GYPSUM COMPANY

ADAM M. WYANT—secretary; will report directly to the chairman of the board; replaces DOUGLAS B. LITTLEWOOD who has resigned.

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ASBESTOS STOCK QUOTATIONS

Close—October 31, 1967

Abex	29⅝	Gen Anil & Film	19
Advocate	*$2.30	GAF (pfd—1.20)	27¾
Asarco	63¾	Glen-Alden	12½
Armstrong Cork	54½	G-Alden (.70)	13⅝
Arm. Cork (pfd)	69½	G-Alden (pfd—3.15)	91½
Asbestos Corp.	*$21.75	G-Alden (pfd—2.25)	47½
Bendix	47¾	Gulf & Western	54⅝
Bendix (pfd)	77¼	G&W (pfd—5.75)	75⅞
Cassiar	*$17.62	Johns-Manville	55⅛
Certain-teed	16⅜	National Gypsum	41⅞
Certain-teed (pfd)	17½	Patino	*$13.75
Conwest	*$6.50	Porter (pfd)	85½
Fiberboard	34⅝	Raybestos	.53
Flintkote	21¼	Unarco	11⅞
Flintkote (pfd)	77	Uniroyal	41⅝
Garlock	19⅛	Uniroyal (pfd)	133¼

*Canadian currency

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ASBESTOS PRICES

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

(As of July 10, 1964)

No. 1 Crude	$1,410.00 to	$1,650.00
No. 2 Crude	610.00 to	900.00
AAA	..	800.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	750.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton of 2,000 lbs. f.o.b. Mine

(As of April 1, 1967) Canadian Currency

Crude No. 1	$ ..	$1,410.00
Crude No. 2	..	760.00
Group No. 3 (Spinning Fibre)	360.00 to	588.00
Group No. 4 (Shingle Fibre)	198.00 to	335.00
Group No. 5 (Paper Fibre)	140.00 to	165.00
Group No. 6 (Waste, Stucco or Plaster)	..	101.00
Group No. 7 (Refuse or Shorts)	47.00 to	85.00

CASSIAR— Per Ton of 2.000 lbs., f.o.b. North Vancouver, B.C.

(As of April 1, 1967) Canadian Currency

AAA grade	(non-ferrous spinning fibre)	$ 810.00
AA grade	(non-ferrous spinning fibre)	643.00
A grade	(non-ferrous spinning—Canadian Group 3)	484.00
AC grade	(asbestos-cement—Canadian Group 4)	345.00
AD grade	(asbestos-cement—Canadian Group 4)	284.00
AK grade	(shingle fibre—Canadian Group 4)	241.00
AS grade	(shingle fibre—Canadian Group 4)	200.00
AX grade	(shingle fibre—Canadian Group 5)	177.00
AY grade	(shingle fibre—Canadian Group 5)	126.00

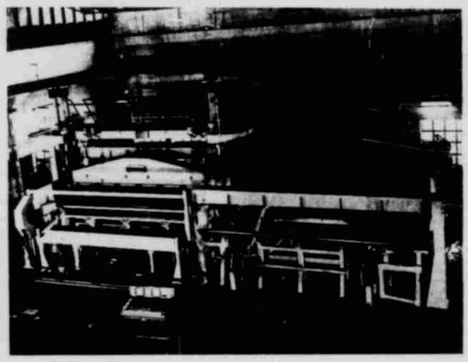
VERMONT— Per Ton of 2,000 lbs., f.o.b. Mine

(As of April 1, 1967) U. S. Dollars

Group No. 3 (Spinning & Filtering)	$ 319.00 to	$ 342.00
Group No. 4 (Shingle Fibre)	183.00 to	296.00
Group No. 5 (Paper Fibre)	129.00 to	153.00
Group No. 6 (Waste, Stucco or Plaster)	..	93.00
Group No. 7 (Shorts & Floats)	40.50 to	78.00

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ASBESTOS PATENTS

U.S. Patents on Asbestos and Asbestos Products, by Oliver S. North.

U.S. Patents may be purchased from The Commissioner of Patents, Washington 25, D.C., at a cost of 50 cents each. Remittance should be in coin, currency, or check, and the number(s) of the patent(s), name(s) of inventor(s), and date(s) of issue should be shown.

U.S. Patents issued from September 12th through October 3rd, 1967.

3,342,614—Fire Resistant Asphaltic Compositions, R. E. Koons (*assigned to Monsanto Company, a corporation of Delaware*), September 19, 1967.

3,343,824—Rotary Kiln, R. R. Schneider (assigned to Harbison-Walker Refractories Company, Pittsburgh, Pennsylvania, September 26, 1967.

3,344,015—Method of Producing Asbestos-Cement Sheets Containing Cellulosic Fiber, J. E. Neal & C. L. Irvin (assigned to Johns-Manville Corporation, New York City), September 26, 1967.

3,344,016—Method of Making Beater-Saturated Water-Laid Product Containing Paper-Making and Textile Staple Fibers, W. A. Moggio & J. M. Lesniak (assigned to Armstrong Cork Company, Lancaster, Pennsylvania), September 26, 1967.

3,344,017—Method of Controlling Drainage Time of Beater Saturated Slurries, J. M. Lesniak (assigned to Armstrong Cork Company, Lancaster, Pennsylvania), September 26, 1967.

3,344,094—Dry Mix Friction Material Comprising Butadiene Acrylonitrile Rubber, Phenol Formaldehyde Resin and Filler, C. L. E. de Gaugue (assigned to Johns-Manville Corporation, New York City), September 26, 1967.

3,344,838—Method for Producing an Exothermic Lining for Ingot and Foundry Molds and Hot Tops, H. Nouveau (assigned to Soc. a Responsibilite Limitee Doittau Produits Metallurge, Seine-et-Oise, France), October 3, 1967.

Regional Mineral Industry Review of Africa (preprint from the 1965 U. S. Bureau of Mines Minerals Yearbook; 10c)—The value of asbestos output amounted to about $44-million. Although there was recorded production in six countries or areas, the great bulk of African output continued to be contributed by South Africa (52%), Rhodesia (37%), and Swaziland (9%). Besides being the world's only producer of amosite asbestos, South Africa continued to contribute the great bulk of crocidolite asbestos. For the whole continent, asbestos output was 11% larger that that of 1964.

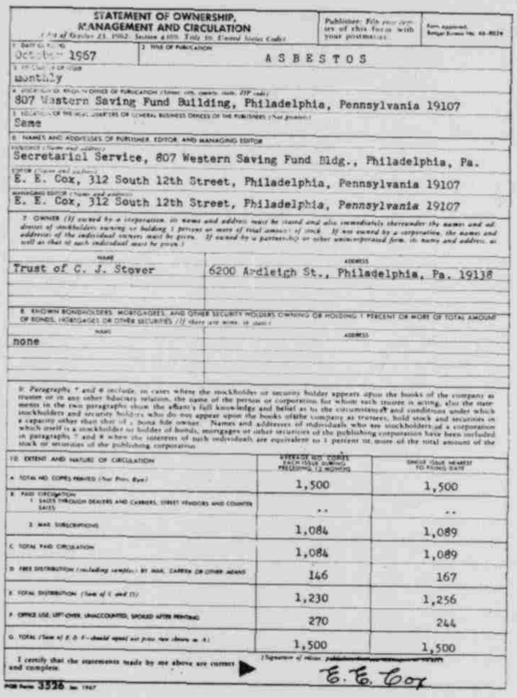
BUILT ON A ROCK

Crude Asbestos is the rock on which our business is built. In the Scandura Factories at Cleckheaton and West Auckland it is used to manufacture everything for which asbestos is best, from yarns and cloths to all types of jointings and packings. Our Research Laboratories keep us at the head of development; Asbestos is our subject.

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PSM Form 3526 Rev. 1967

Cyprus Annual Report of the senior mines officer for the year 1966 is available and includes information on the Asbestos Industry. It covers amount of rock mined and treated, fibre produced, exported and used in the factory, and expenditure on plant and new buildings, etc.

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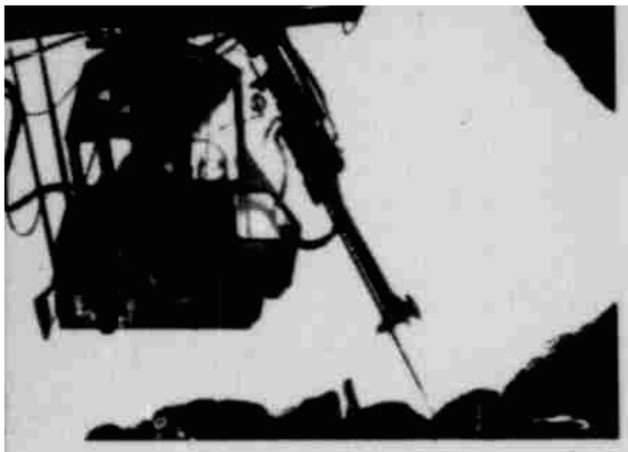
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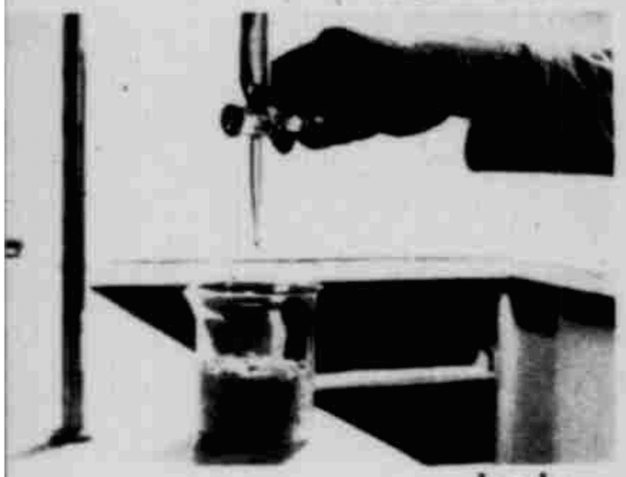
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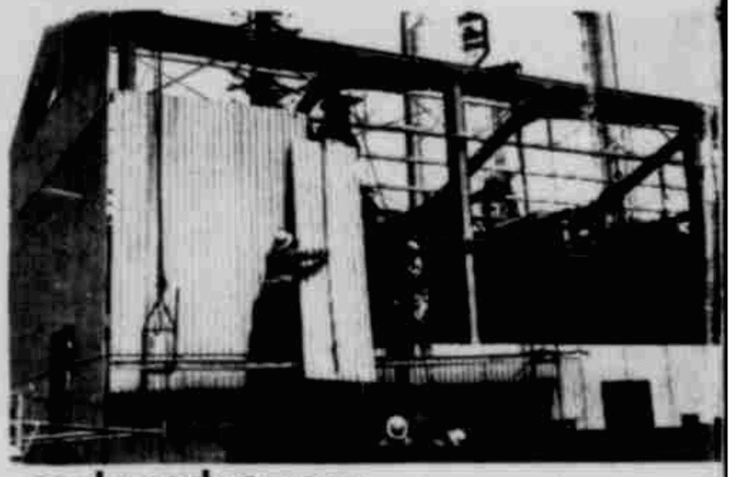
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