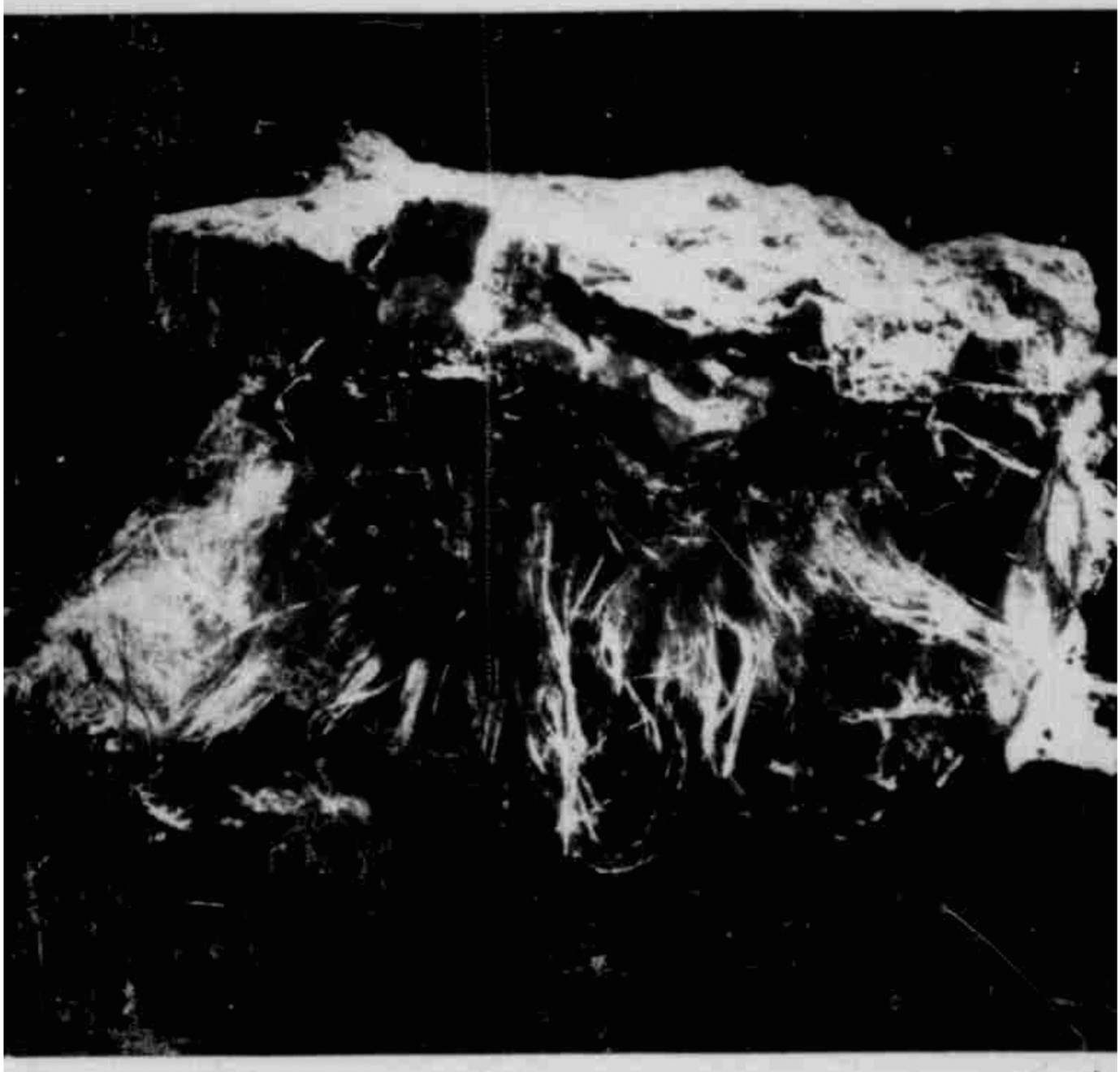
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ASBESTOS WORK STUDIES

By: W. E. Sinclair, M.I.M.M.

So much is happening in the commercial sphere today that commodity prices are in a more or less state of flux, a factor that unavoidably recoils on the question of production costs. This would ordinarily be adjudged a normal trading characteristic except that today it occurs in a more complex form even to the extent of affecting minerals and metals, not usually classed as commercial commodities.

The mineral asbestos is different, since all the varieties play a wide and diversified part in most industries and are closely linked with many branches of commerce. For this reason, they are probably more liable to reaction to variable price levels in world markets than other mineral products.

Unusual consumer demands and high prices or, by contrast, trade recessions, can usually be accounted for by some exceptional upset in normal supply and trading conditions. At present, the unsteady and uncertain market position is due mainly to the unsettled political state of the world that naturally affects industrial economies everywhere and, in addition, induces a state of indefinite values in the future.

Insofar as asbestos production is concerned, records indicate that producers, during the past two years, have achieved record outputs and enjoyed favorable market *conditions, notwithstanding the unsettled state of the world* both economically and politically. However, many leading authorities have sounded a note of warning, that it is as well that provision is made for possible leaner times ahead, because, until the world gets on to an even keel, anything may happen in the industrial sphere.

Indeed, insofar as the asbestos industry goes, possible adverse factors are already looming ahead. First, there is the increase of dumping of Russian fibres on world markets and, secondly, the steady growing development and production of inorganic or artificial fibres as substitutes for asbestos fibres. As an unreal and sudden state of overproduction, as a result of these factors, the effect on the

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normal outlet of asbestos production may well result in a serious fall in consumer demand and ultimately end in an emulous price war. In either case, it would seem that low priced commodities will win the day.

If this is so and it seems reasonable to accept this argument, then it is clear that producers must consider taking definite steps to substantially reduce production costs below existing levels. It has already been indicated that this serves as an unfailing move to counter most market irregularities.

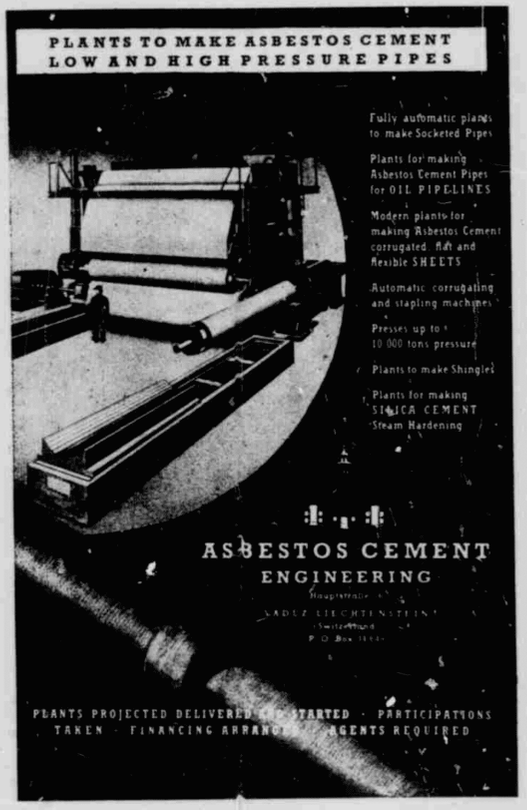
To lower costs is a question that calls for careful analyses of ways and means. In some cases recourse may be had to increasing output, but this is not a means to an end since new markets must be found and often it is a step that unavoidably introduces other problems. Indeed, it is an accepted fact, in most productive fields, that a regular fixed capacity output is conducive to lower overall costs, whereas a variable output, aimed at satisfying the vagaries of uncertain market demands, is more costly in the end.

Therefore, as a general rule, this problem is reduced to the fundamentals of unit working costs. These may be reduced in different ways depending mainly on local conditions, but the most direct and infallible approach is undoubtedly the institution of efficient operating methods, including the elimination of wastage in any and every form.

In many cases the wastage of time, apart from materials, is an item often lost sight of, as it is in the case of the apparently insignificant details in mine, mill or factory, that are a cause of unnecessary expenditure. Alternatively, these details may form essential factors in the productive processes that make for overall efficiency, so necessary to achieve net economic results.

Maximum efficiency spells economic operations or, in other words, profitable production. It is therefore clearly evident that efficiency is the basic object to be aimed at in an endeavor to lower unit working costs.

Mechanization constitutes a large part of modern productive processes. This, and the development of automa-



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tion in advanced practice has now been generally accepted as a direct challenge to rising costs. Theoretically, this may be true and in practice, as we know, increased volume production will, in favorable circumstances, reduce overall costs. However, here again, increasing output in certain unsuitable conditions, by the introduction and application of mechanical plant may easily lead to other complex and even costly problems. As an instance, maximum mechanization may necessitate new working methods to ensure perfect coordination of operations to achieve efficient overall results. Individual machine efficiency in each unit is not the sole answer, since synchronization of all units to ensure continuous maximum capacity output, is an important factor that must not be overlooked.

The costly initial installation of mechanization and automation is also often viewed as a certain means of operational functions aimed at the complete elimination of the original concept of man-hours and inefficiency in the struggle to get results. But, in actual practice, very few operational propositions can depend wholly on machine efficiency to achieve one-hundred per cent results, because, in nine cases out of every ten, the human factor serves as an essential link, if only in the effective control and the maintenance of the mechanized plant.

In mines, the human factor can be said to play an essential part in all operations, even where mechanical plant is part of the extractive procedure since no regular and steady factory-functioning routine is possible, because of the changing conditions inevitable in every mining sphere. Here, manual practice, in conjunction with mechanical plant, is an indispensible factor in procuring the necessary and essential coordination that is one of the important fundamentals of efficiency.

In the matter of the efficacy of the workers on any job, consideration of the science of ergonomics, or human relations, to attain improved working results has already been discussed.* In this it was shown that the most surprising economies were effected.

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operations, notwithstanding that it would appear to have little in common with operating efficacy.

Work study consists basically of efficiency tests carried out in various ways, but more commonly by the observation of the time taken, the regularity, and the results obtained on any job. These factors provide comparative data for the possible introduction of improved methods or by speeding up the work by changes in layout or procedure.

Arising out of such straightforward investigations, there follows a number of useful side issues, such as, the suitability of the equipment being used and the technique employed in its use. The general structure of the work in hand and the cooperation of the men employed in its function (including the mechanical plant), are factors often disclosed to provide information of some value in improved layouts or in labor utilization.

Plant and equipment usually falls under specialized studies in the field of mechanization. This work often leads to creative engineering even if only in the shape of refinements or the development of new or modified plant designed to give better results.

Although mechanical performance constitutes major undertakings in efficiency studies, this work is not as complicated to the same extent as is the case of the unpredictable human factor. The observed results of the worker in any combined operations may not be of much value in itself, but its place as a link in the whole system is often of great importance.

The study of manual operations in which workers must be closely observed and their work timed introduces a somewhat surprising difficulty occasioned by the fact that most workers dislike the use of a stop-watch to time their actions. Originally, of course, such practice by any of the executive heads was considered a trick to plan the men to do more work in a given time.

Today, this difficulty is overcome by means of human understanding and no trouble is experienced if a tactful approach is made by study engineers explaining that such observations are simply a means of collecting information for efficiency purposes.



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In some cases, in order to obtain reliable data on set jobs, it is more satisfactory for efficiency officials to tackle the job themselves for set periods. Running rock drills is an example where a study man is able to obtain a better performance check than merely timing drillers. "Doing it oneself" is often a more satisfactory means of obtaining positive, theoretical and practical results.

It is usual and often desirable on most mines to establish a permanent efficiency department in which study men are controlled by an efficiency engineer, who is responsible to the manager or his deputy. This has been proved to be a valuable means of planning maximum efficiency on all operations and, at the same time, eliminating every instance of wastage of time, labor and materials.

Besides lowering operating costs, this work tends to improve productivity and offers, in addition, a valuable source of data in future productive planning operations.

*Ergonomics In The Asbestos Industry, by the author, appeared in the April 1962 issue of "ASBESTOS".

Quality Control and Asbestos Processing Go Hand-In-Hand At Jefferson Lake is the title of a very informative article by Ralph S. Torgerson, which appeared in the June 1963 issue of ROCK PRODUCTS.

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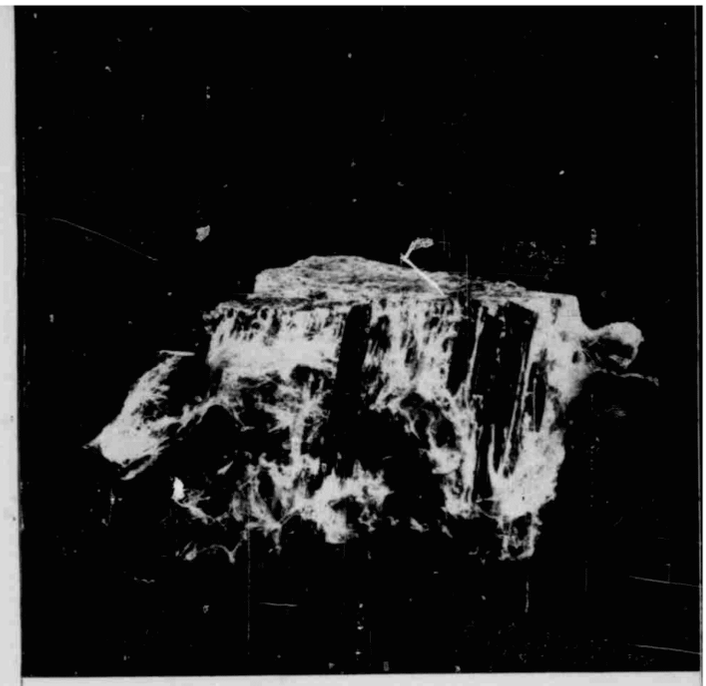
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ASBESTOS AROUND THE WORLD

We Will Do Our Best Tomorrow

(This article, taken from the February 1963 issue of "The Asbestos Producer", is the second of a series prepared by Canadian author Jean Danard, who, in the course of a round-the-world voyage, is interviewing asbestos manufacturers.)

We Will Do Our Best Tomorrow—To the Japanese, that is what the word asbestos could mean. It couldn't have a more appropriate name in this land subject to typhoons and earthquakes where 95 million people live on four main islands about one-quarter the size of the province of Quebec. In Tokyo's 800 square miles are 10 million living mostly in wooden houses, jammed together like a honeycomb.

Tomorrow may mean disaster and the danger of fire is ever present. No wonder the use of asbestos in Japan is dramatically increasing. Over the past ten years, the tonnage of fibre imports from Canadian mines has increased six times. The reason is Japan's great surge of building in its six major cities. The fibre arrives in 100-pound jute bags a month-long trip from Canada through the Panama Canal.

The bulk of the fibre is shipped to Japan from April until November. During the winter months, the high cost of inland freight to Halifax add too much to price.

One of Japan's largest users of Canadian asbestos is the Asano Slate Company of Tokyo, which operates seven fabricating plants throughout the country. The company's production capacity amounts to more than 30 per cent of the national total production. Except for a small quantity of domestic asbestos, all this fibre is Canadian, which, reports President Y. Kosugi of Asano Slate Company, is very strong.

Eighty per cent of his asbestos-cement production goes into roofing, 20 per cent into board, but Mr. Kosugi hopes to make more board so production will be on a 50-50 basis. When? "In the future", says Mr. Kosugi.

Before the war, asbestos in Japan was only used for roofing. Now it is also used on ceilings and walls as well as in dozens of other locations. Asano Slate products form part of a neon sign on a television building in Tokyo, in

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the Tokyo government museum, and are to be seen on the store front of the popular Matsuya department store in the city. Asano Slate will also be used in Olympic Village in Tokyo now being prepared for the games in 1964. The company also sells to builders of schools, office buildings, even to a barber for his name sign.

Growth in the Japanese asbestos market will not only come from the new office buildings and factories but aiso, says Mr. Kosugi, through the prefabricated method of building homes which is just starting in the country.

"The older people", Mr. Kosugi went on, "still like wooden homes because their ancestors have used them up to the present day. But the young ones go for western style and the use of asbestos".

The company is continually searching for new uses for asbestos. An article in a recent American trade magazine showed an asbestos blackboard. When Mr. Kosugi spotted this he immediately instructed his men to investigate its marketability in Japan.

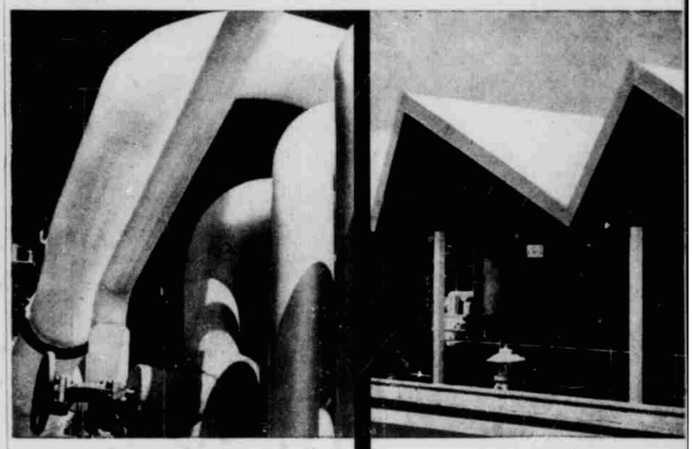
This no doubt explains why Asano Slate keeps its leadership of the asbestos-cement industry in Japan.

M. S. BADOLLET, retired Research Engineer for Johns-Manville Corporation and a recognized authority on asbestos fiber throughout the world, has accepted the appointment offered him as Consultant in Industrial Hygiene to the Health Institute, Fairleigh Dickinson University for a period of one year beginning June 1st, 1963. Mr. Badollet reports that he finds the work very interesting.

ASBESTOS MINING METHODS, by C. V. Smith, a 16-page pamphlet describing the various methods employed in mining asbestos, and, MILLING ASBESTOS, by J. C. Kelleher, companion article to Asbestos Mining Methods, 16 pages, are available at 25¢ each from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

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LORNE R. N. BAIN, prominent figure in Canada's Asbestos Industry, died June 11th, 1963.

Mr. Bain was born and educated in Montreal and started his career in 1914 with the Canadian Asbestos Corporation. In 1930, he bought and became President of Atlas Asbestos Company from which he retired in 1950. He formed and became President of the following companies in the 1950's: Asbestos Erectors of Canada Limited; Bain & Dawes Limited; and, Albion Asbestos Packings Limited. He retired in 1959.

Mr. Bain was one of eight world-wide owners of the "Asbestos Story Ring", presented for outstanding contribution to the Asbestos Industry.

HERBERT E. PALM, appointed Works Manager of *Raybestos-Manhattan, Inc.* on April 1st, 1963, died May 10th, 1963. Mr. Palm joined the United States Asbestos Division of R-M as a Textile Foreman in 1923. In 1931 he was promoted to Superintendent of the Textile Mill, and in 1953 to Factory Manager. He was a graduate of Lowell Textile Institute; active in the Society for Advancement of Management; President of the Steigel Building and Loan Association in Manheim; and, for many years was active in the Textile Institute and was considered a specialist in the handling of asbestos fibers.

ASTM has published the *Directory of Testing Laboratories, Commercial and Institutional—STP 353*, giving the locations of approximately 850 testing laboratories equipped and prepared to undertake testing on a commercial basis.

Copies of this publication may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia 3, Pennsylvania (prices if prepaid, $1.50; to ASTM members, $1.00).

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TECHNIQUES OF PLANT ENGINEERING & MAINTENANCE, 1963, 14th annual volume—the report of the proceedings of the Plant Engineering & Maintenance Conference, held in Chicago, Illinois, January 1963, in conjunction with the Plant Engineering & Maintenance Show. The texts of 30 papers are included, with 92 diagrams, charts, tables, forms, schedules and other illustrations. An important editorial change is a separate chapter which reports the highlights of the discussion sessions which followed the presentation of the papers. Also included for the first time are reports of ten "Experience Exchanges", informal sessions arranged to consider special problems.

The book may be obtained from Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, New York (cloth-on-board 250 pages, 8½" x 11", price—$10.00 postpaid). The 1951 and 1953 editions are available at $6.00 per copy; 1954 and 1955 at $7.50; 1956, 1957, 1959, 1961 and 1962 at $10.00.

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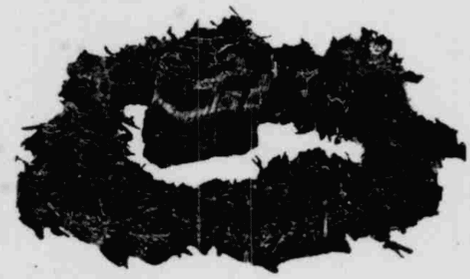
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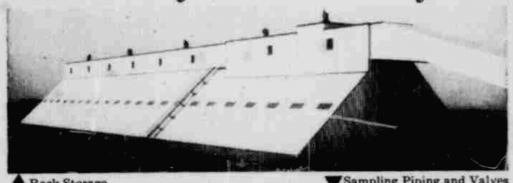
Copies may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia 3, Pennsylvania (prices if prepaid: $20.00; to ASTM members—$16.00).

ASTM's 1962 PROCEEDINGS, Volume 62, is now available. This 1346-page volume is the official record of the proceedings of the Society for the entire year. Included are the 79 reports of technical committees, with supplementary appendices, and the 46 technical papers on subjects pertaining to research and standards for materials. Discussions, not previously published, are useful supplements to the papers. An important adjunct is the Subject and Author Index to all papers published in any form by the Society in 1962.

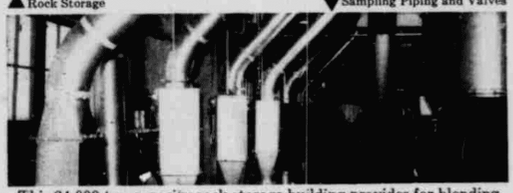
Copies of the Proceedings may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia 3, Pennsylvania (prices is prepaid—$12.00 each; to ASTM members—$8.00).

ASTM unfurled flags atop its four-story headquarters building on May 20th, 1963, to signal the "topping-out" of the steelwork for this newest building on the Benjamin Franklin Parkway, in Philadelphia, Pennsylvania. It is expected that the contemporary concrete, steel, and glass building will be ready for occupancy in December, 1963.

Quality controlled asbestos from ore to fibre



▲ Rock Storage ▼ Sampling Piping and Valves



This 24,000 ton capacity rock storage building provides for blending of ore from various sections of the Carey-Canadian open pit mine—the first step toward assuring customers of constant uniformity of asbestos fibres and shorts.

Solenoid actuated valves controlled from the Quality Control Laboratory periodically draw samples of fibre and shorts from mill production. Continuous testing of samples insures the quality and uniformity associated with Carey-Canadian Asbestos Fibre and Shorts.

Carey-Canadian "quality controlled asbestos" may solve some of your operating problems. The assistance of factory trained Asbestos Fibre Sales Engineers may be obtained by writing any address below:

Carey® ASBESTOS FIBRE

Carey-Canadian Mines, Ltd., P. O. Box 95, Cincinnati 15, Ohio
Carey-Canadian Mines, Ltd., East Broughton Sta. P. Q.
Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P. Q.

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FRICTION MATERIALS STANDARDS INSTITUTE, INC. held its Annual Meeting on June 20th, 1963, and elected the following officers for the year starting July 1st: President—*S. Arthur Smith*, Silver Line Brake Lining Corporation; Vice President—*Alexander J. Bette*, Johns-Manville Corporation; Treasurer—*Harold Hodson*, The Bendix Corporation, Marshall-Eclipse Division; and, Secretary—*Miss Harriet G. Duschek*.

Other members of the Board of Directors, serving with these officers, are: *Joseph W. Greenen*, Auto Friction Corporation; *Frank T. Gatke*, Gatke Corporation; *John H. Kelly*, The Bendix Corporation, Marshall-Eclipse Division; *James L. McGovern, Jr.*, Raybestos-Manhattan, Inc.; and, *Wade E. Canfield*, The S. K. Wellman Company.

INSULATION DISTRIBUTOR - CONTRACTORS NATIONAL ASSOCIATION will hold its eighth annual national meeting at the Arlington Hotel, Hot Springs, Arkansas, September 15th to 19th, 1963. The agenda will comprise a Board of Directors Meeting on Sunday afternoon September 15th; Monday, September 16th, will be devoted to committee meetings and the conference of regional executive secretaries.

The formal meeting will be called to order on Tuesday, September 17th, and will continue Wednesday and Thursday—morning sessions only. A brilliant social program is planned which will be concluded by a dinner-dance Thursday evening.

Nationally-known speakers familiar with the construction industry will be heard; reports of active national committees will be presented; plans for 1964 will be offered for the benefit of the insulation industry in the entire 50 states.

More than 100 firms, contractors and suppliers are expected.

Advance registration forms can be procured from Ellwood F. Jones, Executive Secretary of IDCNA, 1425 Chestnut Street, Philadelphia 2, Pennsylvania (LOcust 3-9088).

NORAMITE

... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
3313 Bloor Street West • Toronto 18, Ontario • Canada

Subsidiaries of The Cape Asbestos Company, Ltd., London

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AUTOMOBILE SALES

	April 1963
Passenger Cars	689,211
Trucks and Buses	128,751
	817,962

In April 1962 a total of 719,577 motor vehicles were sold. In the 4 months of 1963 the total was 3,115,153.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company, has announced the availability of its new line of Flintite asbestos-cement sewer pipe for non-pressure, gravity-flow sewer systems. Made of high-strength asbestos fibers, portland cement and silica, the pipe is produced in 6, 8, 10, 12, 14, 15 and 16-inch sizes and is designed for use as laterals, branches, submains, mains and interceptors. Five crushing strength classifications—Classes 1500, 2400, 3300, 4000 and 5000—are provided to meet a wide range of design requirements. The extremely smooth bore of Flintite pipe (Manning Factor, n=0.010) assures a high flow rate. This frequently allows flatter grades or the use of smaller pipe diameters. Flintite sewer pipe sections are joined quickly and easily with the company's Weld-Tite couplings, which absorb vibration and earth settlement stresses and virtually eliminate problems of infiltration and exfiltration.

MUNDET CORK CORPORATION has produced a very interesting brochure describing *foamed polyurethane*, one of the new thermal insulation products that has come into the market. Copies of AIA File No. 37-D may be obtained directly from Mundet Cork Corporation, 7101 Tonnelle Avenue, North Bergen, New Jersey.

Mining, milling, marketing the best in asbestos fibres...

FLINTKOTE®

Fine chrysotile asbestos fibres custom engineered from the mine, through the mill, into bags for your discriminating requirements.

Flintkote...
MANUFACTURER OF DIVERSIFIED PRODUCTS FOR HOME AND INDUSTRY

Address inquiries to:

In U.S. — The Flintkote Co., 30 Rockefeller Plaza, New York 20, New York
In Canada — The Flintkote Co. of Canada Ltd., 30th St., Long-branch, Toronto, Ontario
Flintkote Mines Ltd., Thetford Mines, P.Q., Canada
In England — The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England

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ADRIANO GARDELLA & F.LLO, textile machinery makers, Genoa, Italy, will occupy Stand No. 8512 in Hall 8 at the 4th International Exhibition of Textile Machinery in Hannover, Germany, from September 22nd to October 1st, 1963. Among the machines to be exhibited will be the *"Asbestos/Spingard" Patent High Speed Spinning Frame*, complete with Dust Suction Set, suitable for spinning asbestos, producing cross-wound tapered rolls of yarn. The frames incorporate a special individual device for the automatic restarting of spinning when one end breaks and produce yarns among a wide range of types and characteristics. Main features of the "Spingard" spinning process are high out-put and efficiency, high quality yarns, less maintenance and labor costs, and no skilled labor required.

JOHNS-MANVILLE has available a Fact Sheet providing salient information on *Transite Asbestos-Cement Water Pipe* in brief detail. The sheet, an 8-page fold-out designated TR-373A, brings together the important characteristics and service features of this product line, all of which are fully illustrated and described in other individual specifications, guides, charts, and sales literature. It is designed to provide potential users with basic data that can assist in determining specific areas of interest. Data included are tables of sizes, weights, dimensions, strengths, bearings, as well as descriptions of Transite's adaptability to other pipe materials. Also covered are data on corrosion resistance, accompanied by unretouched photos of pipe sections removed from old, in-service Transite water lines.

Copies are available free on request from Johns-Manville, Pipe Division, Box JJMC-16, 22 East 40th Street, New York 16, New York.

C. STANLEY manufacturers since 1906
MORGAN WOOL FELT-ASBESTOS PIPE COVERINGS
1124 OAKMAN BOULEVARD — DETROIT 38, MICHIGAN



NOW mined and produced in California

Superior Quality Asbestos Fiber from our New, 13 Million Dollar Copperopolis Plant

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GOLLIH & COMPANY, LTD. Huddart Parker Building P.O. Sq., Wellington, N.Z.
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GUNNERSEN NOSWORTHY LIMITED Salmon Street Port Melbourne, Victoria, Australia
WILBUR - ELLIS OF CANADA, LTD. 540 Burrard Street Vancouver 1, B. C., Canada

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Jefferson Lake Asbestos Corporation

GENERAL SALES OFFICE 351 CALIFORNIA STREET SAN FRANCISCO 4, CALIFORNIA
SOUTHERN CALIFORNIA REPRESENTATIVE WESTERN CHEMICAL & MFG. CO. 3270 E. WASHINGTON BLVD., L.A. 23

BUILDING

May 1963 construction contracts soared to a new all-time high of $4,850,522,000, a 21% increase over May 1962, according to F. W. Dodge Corporation. All major construction and building categories contributed to the gain.

A very large increase in the monthly volume of utility construction contracts, as well as a strong pick-up in new roadbuilding projects, drove nonbuilding construction contracts to $1,337,225,000, a substantial 46% gain over May 1962. "The May reports brought a good deal more balance into the construction picture," declared George A. Christie, Dodge Senior Economist.

"For the first 4 months of this year, the strong gains in residential and nonresidential building have been partially offset by lagging utilities and public works contracts. The recent surge in these construction types, almost eliminating their deficit to date, allows the total to reflect fully the really vigorous tempo of building."

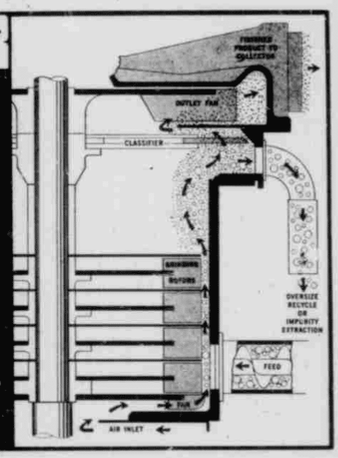
Nonresidential building contracts amounted to $1,452,-164,000, 14% above May 1962. Contracts for manufacturing plants posted a better than 50% gain, the second consecutive one, although commercial building was off 2%. All other nonresidential building types were ahead in May, the smallest increase was above 5%. For the cumulative 5 months, contracts for nonresidential building led the comparable 1962 period by a solid 7%.

The bouyant housing market continued to enlarge its increase over last year as residential contracts climbed to $2,061,133,000, 13% over May 1962. This marked the first time that residential contracts for any months were greater than $2 billion. Apartment buildings again showed great strength.

Cumulative totals of construction contracts for the first 5 months of 1963 with percentage changes from the same period of 1962 are: nonresidential building, $5,787,-963,000, up 7%; residential building, $8,132,372,000, up 8%; and, nonbuilding construction, $4,094,687,000, down 3%—total construction, $18,015,022,000, up 5%.

BAUER

Space Saving 2-in-1 Hurricane Pulverizer-Classifier



Extracts Impurities—
Product Quality Up! Grinding Cost Down!

Heavy duty, high capacity air attrition mill. Designed for sub-sieve processing of asbestos, filler clays, technical ceramics, rare earth oxides, pigments and other friables. Provides particle reduction to any desired average size from 150 microns to less than one micron. Plus extraction of such impurities as silica, sand, mica, iron, etc.

Ask for our help on processing problems. Remember, we supply a wide range of crushers, hammer mills and attrition mills for preliminary size reduction. Send for literature.

The Bauer Bros. Co. Springfield, Ohio

In Canada: The Bauer Bros. Co. (Canada) Ltd., Brantford, Ont.

MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good in most lines although metalworking, aside from the automotive industry and its suppliers, is relatively slow. Big news of the month was the signing of a new contract by the larger steel producers and the United Steelworkers, thus ending the threat of a strike in this basic industry. This has already brought an end to "hedge" buying and resulted in a declining rate of production by the mills. There is no indication that price increases will result from this settlement, at least in the foreseeable future, so a possible inflationary factor has been avoided for the time being.

Automobile production is slowing down as manufacturers prepare for the yearly model changeover. However, the general economy is in good shape as shown by all the recognized indicators and there is no sign of an impending slowdown in general business at this writing.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during May 1963 were 108,886 tons or almost identical to those of May 1962 at 108,439.

Year to date shipments at 391,720 tons are running 3,576 tons or approximately 1% lower than the same period 1962.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Demand for asbestos cloth continues to grow and in recent months has caused a reduction of inventories which in turn has caused some delays in fulfilling customer requirements. With the general economy predicted to continue its upward trend for 1963, and with heavy industry operating at a high level, there is every reason to believe the asbestos textile industry will complete the year well ahead of 1962.



Whatever moulding process you use, you'll get three important advantages from using Gold Bond asbestos floats:

1. Freedom from grit.
2. Higher impact strength.
3. Improved heat resistance.

Your production costs will be lower because of higher production and fewer reworks. Ask your Gold Bond® Representative for the full details. Or write National Asbestos Mines Ltd., Thetford Mines, P.Q., Canada. In U. S. A.: National Gypsum Company, Buffalo 2, New York.

Gold Bond
INDUSTRIAL PRODUCTS

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Asbestos Brake Lining. The present market in the Replacement section is good and the outlook for the coming months is excellent with a record year in sales expected. Equipment sales (O.E.M.) are off but expected to improve shortly and 1963 should be a satisfactory year.

Asbestos Paper. Prices of asbestos paper have increased slightly and are expected to remain at about the present level. 1963 sales volume should be better than in 1962.

Asbestos Millboard. The market for asbestos millboard is improving and prices are firming. Increased steel manufacture combined with high automobile output should insure an upward trend in volume of sales.

Asbestos Saturated Paper. Demand for this material is steadily increasing and is somewhat better than seasonal. The outlook for the rest of the year is good.

High Pressure Insulation. Industrial construction is going along at a good pace. Orders for this type of insulation are at a good level and prices are becoming firm. An increased activity is expected during the third quarter, tapering off somewhat during the 4th quarter, but maintaining a high level.

Low Pressure Insulation. This market continues strong and the volume of business should be 10% to 20% above last year.

Asbestos Cement Shingles—Roofing & Siding. Business for this material is picking up seasonally. 1963 is expected to be a good year and better than 1962.

Asbestos-Cement Pipes. Demand is seasonally high and competition from all piping products is keen. Volume of business should be good for the balance of the year.

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

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford. N. J.

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PRODUCTION

AFRICA (Southern Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

		Production	Value
Asbestos:	April 1963	12,674.88	£520,083*
	April 1962	11,455.45	£589,983*

AUSTRALIA

(Published by Bureau of Mineral Resources)

Tons 2,000 lbs.

	3rd Quarter 1962		
	Production	Imports	Exports
Amosite	..	2,906	..
Chrysotile	245	8,084	..
Crocidolite	6,542	..	2,128
Other	..	679	17
	6,787	11,669	2,145

Pangani—The considerable activity at Pangani Asbestos Mines Limited, Southern Rhodesia, over the past few months will ensure its entry into the field of asbestos producers this year. The checkered career of the mine started after the first World War and after interruptions in production of varied duration the mine is about to emerge as a major producer of asbestos fibres.

„ Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

SK

SMITH and KANZLER CORPORATION

Asbestos Cements
Asbestos Millboard
Asbestos Rollboard
Corebestos Panel Fill
Commercial Asbestos Paper
Pipe and Block Insulation for Heat and Cold
Asbestos Felts and Paper for Saturating
Spraycraft Fireproof Acoustic Plaster

1414 E. LINDEN AVE. LINDEN, N. J.

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IMPORTS & EXPORTS

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials

Tons 2,240 lbs.	April 1963
From: Republic of South Africa	1,808
Basutoland, Bechuanaland & Swaziland	1,295
Rhodesia & Nyasaland	1,758
Canada	4,963
Other Commonwealth Countries & Irish Republic	446
Foreign Countries	138
	10,408

British Belting Annual Report for 1962—The 66th annual general meeting of British Belting & Asbestos Limited, was held on June 27th, 1963. Group sales increased by 11% and the final Group profit was £787,043, an increase of 7½% over the 1961 figure of £732,416.

SURVEYER, NENNIGER & CHÊNEVERT

COMPLETE CONSULTING ENGINEERING SERVICES FOR THE ASBESTOS INDUSTRY

COMPLETED: MILL No. 5
JOHNS-MANVILLE, ASBESTOS, P.Q.

UNDER CONSTRUCTION:
ADVOCATE MINES,
BAIE VERTE, NEWFOUNDLAND

UNDER STUDY: ASBESTOS HILL PROJECT,
UNGAVA, P.Q.

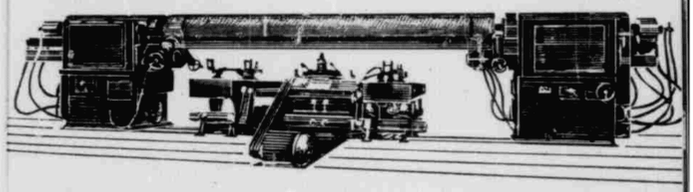
1440 St. Catherine Street West, Montreal, Que.
Telephone 868-1731

J. M. VOITH A. G.

one of the oldest manufacturers of asbestos-cement machinery are proud to have at their disposal a team of first-class engineers and technicians who are continually engaged in the development, design and construction of the complete machinery for the production and testing of all kinds of asbestos-cement sheets and pipes.

Our engineering staff shun no effort to promote an increasing economy of manufacturing operations in the asbestos-cement industry by continually improving the design of the individual machines and by making their operation largely automatic.

We invite you to avail yourself of the experience of our staff of expert engineers and highly-skilled craftsmen!



Asbestos-cement Pipe Lathe for fully automatic operation with automatic pipe feeding and discharge.

Length of pipes: 7 - 16 ft.

Inside diameter of pipes: 2 - 16 in.
resp. 2 - 24 in. or 10 - 39 in.

J.M.VOITH A.G.

St. Poelten-Austria, P.O.B. 168 Tel. 2501, Teletype 01510

SM 786

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Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos: April 1963

Crude

	Short Tons	Value
United States	..	$ ..
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	..	..
Other Countries	..	..
	..	$ ..
Milled		
United States	13,481	$ 2,673,805
United Kingdom	4,055	734,054
South America	3,342	586,769
Central America & Mexico	1,921	337,816
European Countries	17,446	3,214,447
Other Countries	6,022	1,032,702
	46,267	$ 8,579,593
Shorts		
United States	43,247	$ 2,348,022
United Kingdom	2,410	131,127
South America	393	28,812
Central America & Mexico	91	6,106
European Countries	5,803	368,010
Other Countries	4,138	282,404
	56,082	$ 3,164,481
Grand Total— Unmanufactured Asbestos:	102,349	$11,744,074

Manufactured Asbestos Goods:

Brake Linings Facings	$ 38,441
Asbestos-Cement Building Materials	31,518
Asbestos-Cement Products, Other	13,558
	$ 83,517

BURGDORF K.G.
Importer of **Raw Asbestos**
P. O. Box 1131, BREMEN, GERMANY

GEBR. WEHRHAHN

MASCHINENFABRIKEN

P. O. Box 209

DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

- pressure pipes
- socket pipes
- flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

Get full information! **Write now!**

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INDUSTRY NEWS

HAPPY BIRTHDAY

Thomas L. Gatke, President, Gatke Corporation, Chicago, Illinois, July 16.
Ian C. Spark, Vice President & General Manager, Cape Asbestos (Canada) Limited, Toronto, Canada, July 16.
William J. Whitaker, President, Magnesia-Asbestos Insulation Company, New York City, July 17.
John F. D. Rohrbach, President & Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.
R. F. Turner, Promotion Sales Manager, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 18.
C. Brown Whitley, President, Scandura, Inc., Charlotte, North Carolina, July 20.
C. J. Backstrand, Chairman, Armstrong Cork Company, Lancaster, Pennsylvania, July 21.
Robert S. King, Chairman of the Board, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 21.
Seymour Milstein, Senior Vice President for Corporate Development & Director, The Ruberoid Co., New York City, July 21.
William S. Simpson, Vice President, Secretary & Director, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.
Roscoe E. Tallman, Director, Tallman McCluskey Fabric Company, Kirkwood, Missouri, July 22.
Robert E. Rimbach, Secretary-Treasurer, Magnesia-Asbestos Insulation Company, New York City, July 26.
P. H. Ryan, Merchandise Manager, Pabco Building Materials Division, Fibreboard Paper Products Corporation, San Francisco, California, July 26.
Clinton B. Burnett, President, Johns-Manville Corporation, New York City, July 29.
John Ozurovich, Chairman of the Board, Atlantic Asbestos Corporation, New York City, July 31.
R. B. Williams, First Vice President, Treasurer & Secretary, The Russell Manufacturing Company, Middletown, Connecticut, July 31.
C. B. Brown, President & Chairman, Keasbey & Mattison Company, Ambler, Pennsylvania, August 1.
G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.
Wade I. Duym, Vice President & General Manager, Asbestos Corporation of America, Garwood, New Jersey, August 6.
A. P. Keasbey, Sr., President & General Manager, Robert A. Keasbey Company, New York City, August 6.
R. C. Braun, Secretary-Treasurer, Niagara Asbestos Company, Buffalo, New York, August 8.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

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Leon T. Choate, Executive Vice President, Mundet Cork Corporation, North Bergen, New Jersey, August 9.
E. T. Donaldson, President, Murray Mining Corporation Limited, Toronto, Canada, August 9.
Melvin H. Baker, Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Leon T. Choate has been appointed President and General Manager of a newly-created division of MUNDET CORK CORPORATION to be known as the "Mundet Insulation Contracting Division". Mr. Choate is also Executive Vice President of Mundet Cork.

Gerald S. Haney was appointed Director of Marketing of Mundet Cork. He was formerly General Sales Manager of the Bondware Division of Continental Can Company.

Carl Schiesz was appointed Controller of Mundet Cork.

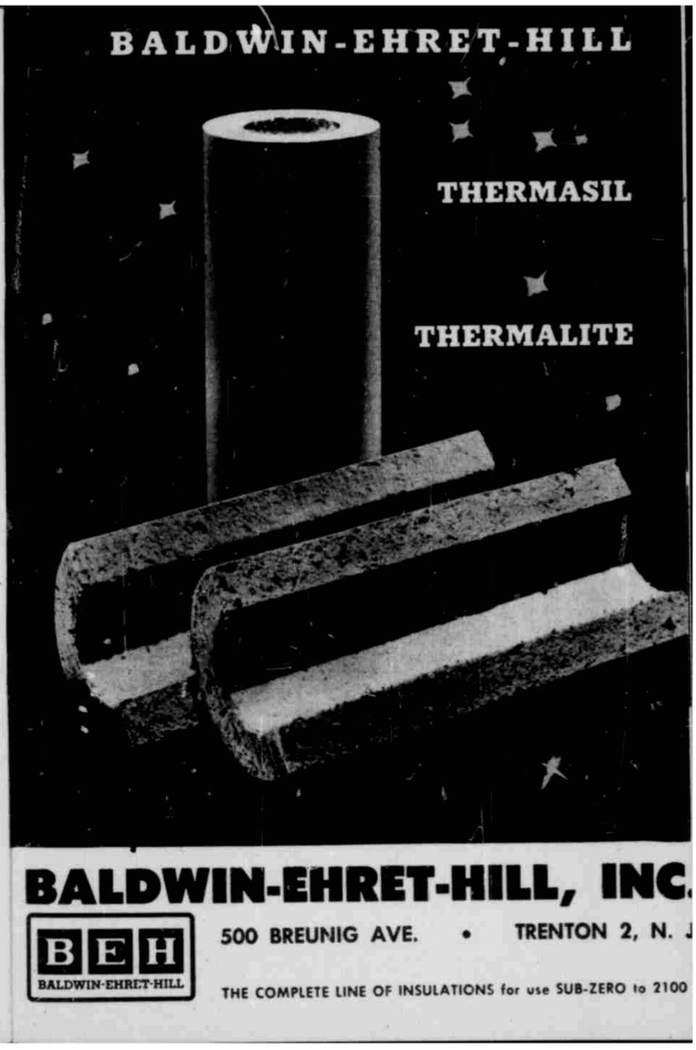
The above was announced by **William T. Windle,** President and Chief Executive Officer of Mundet Cork.

Mundet Cork Corporation, North Bergen, New Jersey, has established completely new manufacturing facilities at Danville, Illinois for production of expanded polystyrene and foamed polyurethane pipe covering and block insulation.

James R. Allen, Jr. has been elected Vice President of the JOHNS-MANVILLE DUTCH BRAND PRODUCTS CORPORATION and appointed Operations Manager of the Dutch Brand Division. In his operating capacity, Mr. Allen will assist the Division General Manager on all phases of manufacture, distribution and sales of J-M Dutch Brand pressure-sensitive tapes, adhesives and related rubber products. The Division operates production facilities at Chicago, Illinois, and Tilton, New Hampshire. Mr. Allen will maintain offices at Division Headquarters in New York.

Mr. Allen began his career with J-M at Philadelphia, Pennsylvania, in 1945 as Sales Engineer for Industrial Products; was appointed Staff Manager, Transite pipe at company headquarters at New York in 1954; advanced to Manager, Transite pipe Dealer Sales in 1955; and, was appointed Sales Manager of the Dutch Brand Division in 1961.

Don Jose Esteva Casals, Founder, Chairman of the Board and Manager of ROCALLA, S.A., Barcelona, Spain, died on May 4th, 1963. This was announced with deep sorrow by the Board of Directors of Rocalla.



BALDWIN-EHRET-HILL, INC.

BEH
BALDWIN-EHRET-HILL

500 BREUNIG AVE. • TRENTON 2, N. J

THE COMPLETE LINE OF INSULATIONS for use SUB-ZERO to 2100

J. A. D. Marcotte, former General Sales Manager of Asbestos Corporation Limited, was presented with a scroll at the Asbestos Textile Institute meeting, Barbizon-Plaza Hotel, New York City, June 6th and 7th, 1963. Mr. Marcotte received this honor in commemoration of his many years of association with the Asbestos Industry and the Asbestos Textile Institute on which he served as Chairman of the Asbestos Fibre Committee, signifying the esteem in which he was held by its members. The presentation was made by J. T. Griffis, member of the Sales Promotion Committee and Sales Manager, of H. K. Porter Company in Charlotte, North Carolina.

William Wallace Mein, Jr. has been elected as a Director of THE FLINTKOTE COMPANY. Mr. Mein, Jr., a Vice President of Flintkote and President of Calaveras Cement Company, a division of Flintkote, replaces **William Wallace Mein, Sr.** who resigned from the Flintkote board. Mr. Mein, Sr., a Flintkote Director since 1959, founded the Calaveras Cement Company in 1925. He also founded the Bishop Oil Company and is a Director of The Bank of America.

The Mining Journal Annual Review—1963 edition—The new edition of this comprehensive publication not only summarizes the events in the mining industry throughout the world during 1962 but also assesses the immediate outlook for the various sectors of the Industry and reviews the mining industry country by country.

This Annual Review is circulated free to all subscribers to the weekly issue of The Mining Journal. To others the price is 27/6 shillings per copy, postage paid, and may be obtained from The Mining Journal, 15 Wilson Street, London, E. C. 2, England.

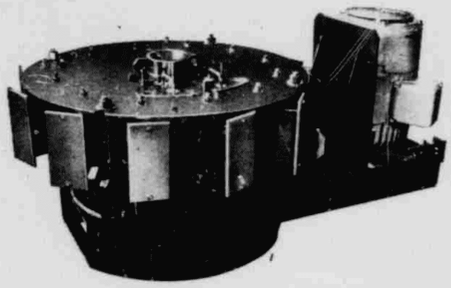
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Phenolic & Cashew Resins

Cashew Dusts & Polymers

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RAILROAD & SO. COLUMBIA WOODBURY, N.J.



NEW
SIMPLICITY
D'CENTEGRATOR®

gives longer fibres, less fines

In-use tests prove that our new D'centegrator produces longer fibres, a higher rate of recovery and a lower percent of fines than other types of fibrizers. Using horizontal impeller action, this 12-bar unit fibrizes so thoroughly that the long fibres are not "dirtied." It can handle up to 60 t.p.h. of 2" cubical feed.

Simplicity D'centegrators were successfully tested and installed by one of the world's largest producers of asbestos. Write or call to arrange for your own test at our plant. Or send for catalog DC-61 which contains complete information on this low-initial-cost, easy-to-maintain fibrizer.

OTHER MINING INDUSTRY EQUIPMENT: vibrating screens, feeders, grizzly feeders, scalpers, crushers, conveyors.

Simplicity

ENGINEERING COMPANY • Durand 18, Mich.

234

CANADA: Simplicity Materials Handling Ltd., Guelph, Ont.
EXPORT: Brown & Sites, 50 Church St., New York 7, N.Y.

Published by AsbestosClaims.Law
asbestosclaims.law/library/12555/25

CURRENT RANGE OF PRICE

As of July 10, 1963

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

No. 1 Crude (soft)	$1,475.00 to	$1,650.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	450.00
Group No. 4 (Plastic & Filtering)	385.00 to	400.00
Group No. 5 (Plastic & Filtering)	225.00 to	375.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

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

Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vermont

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	281.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

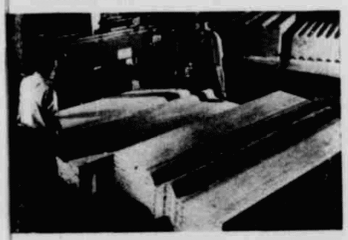
CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C. Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	142.00

asbestos

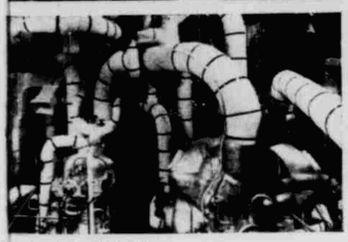
chrysotile, crocidolite and amosite fibres for:

Asbestos-Cement

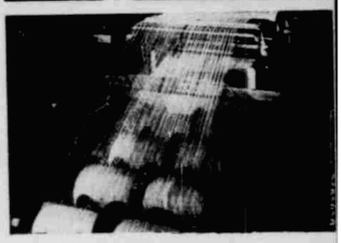


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Insulation Materials



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from Britain's largest distributors

Turners Asbestos Fibres Ltd

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TN 2/1

ASBESTOS STOCK QUOTATIONS

These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

	Par	June 1963 Low	High	Last
Advocate Mines, Ltd.	1	$6.90	$7.40	$7.30
American Brake Shoe	np	52⅜	55⅜	55
Amer. Smelting & Refining (Com)	np	74¼	80⅜	78¾
Amer. Smelting & Refining (Pfd)	100	162	165½	163½
Armstrong Cork (Com)	1	79¾	83¾	80
Armstrong Cork (Pfd)	np	89½	91½	89½
Asbestos Corporation	np	25¼	27⅛	26
Philip Carey	10	25¼	25⅞	25¾
Cassiar Asbestos Corp.	np	11	11⅞	11
Certain-teed	1	13¾	15⅜	14⅝
Fibreboard	np	25¾	27¾	26⅛
Flintkote (Com)	5	21⅜	23⅜	22¼
Flintkote (Pfd)	np	87	90	90
Jefferson Lake Asbestos	1	7¼	7½	7½
Johns-Manville	5	47⅛	51½	47⅝
National Gypsum (Com)	1	45	47¾	46¼
National Gypsum (Pfd)	np	102	103½	103½
Porter, H. K.	100	97½	99½	99
Raybestos-Manhattan	np	40½	42¼	40⅝
Ruberoid	1	26¾	28⅛	27⅝
Seagrave Corp.	2½	12½	14	12½*
Unarco Industries	5	9¾	10⅞	10½
United Asbestos	1	$3.25	$3.55	$3.35
U. S. Rubber (Com)	5	*44¼	47¾	44⅞
U. S. Rubber (Pfd)	100	163	166¾	164½

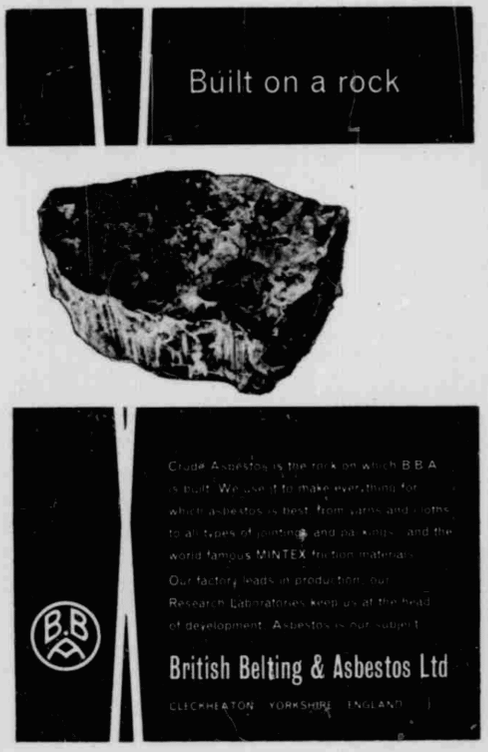
*Split two-for-one, June, 1963.

GUMMI ASBEST KUNSTSTOFFE

is the asbestos periodical in Europe which covers editorially in each issue the production, processing and application of asbestos. Therefore, it is read by all firms connected with the importing and processing of asbestos in 60 countries and is used for advertising by the asbestos mines all over the world.

Subscription fee DM 42.—plus postage per year.

Published by: A. W. Gentner Verlag KG, 7 Stuttgart-W Forststr. 131, Postfach 688.



T. R. O'Connor, who represented RAYBESTOS MANHATTAN, INC.'s Asbestos Textile Division in the Cleveland, Ohio, territory for ten years, passed away in January of this year.

Richard E. Davis has replaced Mr. O'Connor and will service a territory including Eastern Michigan, all of Ohio and Western Pennsylvania.

Claude H. Allard has been appointed Assistant General Manager of the Textile Division of UNITED STATES RUBBER COMPANY. Previously he had been Director of Marketing for the Naugatuck Chemical Division. His new office will be at the company's New York headquarters. Mr. Allard joined U. S. Rubber's Naugatuck Chemical Division as a Research Chemist in 1947.

Edward J. Delehanty has been named as Sales Engineer for ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. He will be in charge of Flintite asbestos-cement pressure pipe, gravity sewer pipe, building sewer pipe and irrigation pipe in the company's Connecticut, Southern New York and New Jersey Sales District. Mr. Delehanty was formerly a Sales Engineer with Johns-Manville and sold asbestos-cement pipe in J-M's Connecticut and Long Island terrjtory.

Robert N. Ettlinger has been appointed as Comptroller of THE RUBEROID CO., succeeding **Thomas H. Dermody** who was elected several months ago to the newly-created post of Vice President—Finance. Mr. Ettlinger had previously served as Controller of Eversharp, Inc. and the Papermate Division of The Gillette Company. While serving as a Staff Consultant for the American Institute of Certified Public Accountants from 1958-1961, he authored several treatises on accounting and financial matters.

Herbert T. Thrower has been named to fill the recently-created position of Technical Assistant to the Industrial Sales Manager for THE BAUER BROS. CO. with headquarters in the company's main office in Springfield, Ohio. **Jerry Lewis** will help handle sales of general industrial and food processing equipment in Bauer's west coast territory with headquarters in Concord, California. **Edwin W. Brangenberg** is Bauer's new Sales Representative added to the east coast territory and will be headquartered in the company's New York City office. He will concentrate his efforts in the food and general industrial processing industries.

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WORLD'S FIRST MANUFACTURER OF NEEDLED FELTS

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