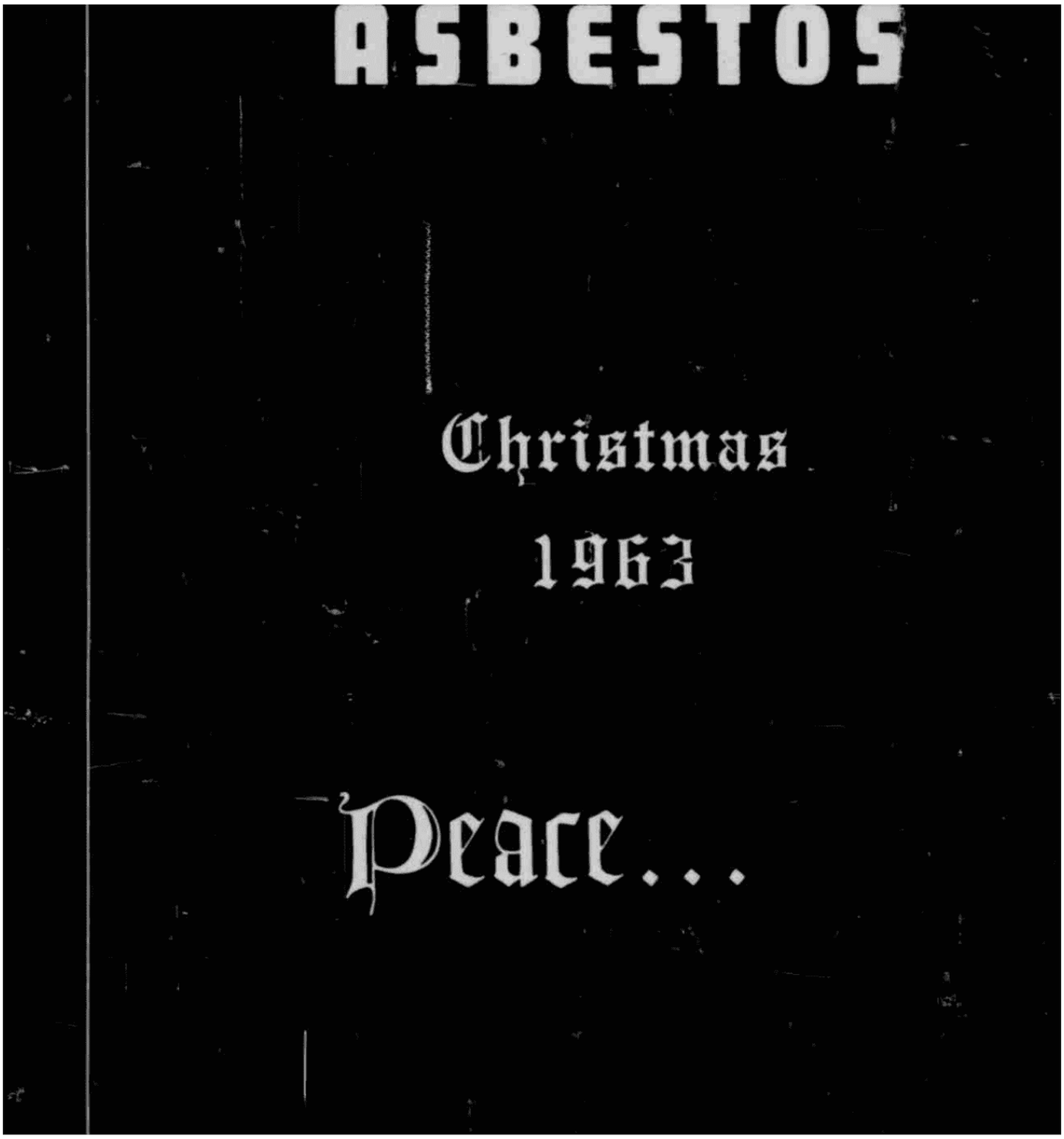


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Trust of C. J. STOVER, *Proprietor*
E. E. COX, *Editor*

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REVIEWING 1963

Every once in a while, it is a good idea to stop and take a look at the progress and occurrences within the Asbestos Industry. And so, every year since December 1931, it has been our practice to take a reflective pause which enables us to decide just what has been accomplished.

Asbestos has continued to play a very important part in many phases of industry, particularly as a reinforcement in plastics and asphalt paving; also, in insulations which are being used in the constructing of space vehicles.

Many of our large companies are enlarging and better-equipping their research and development centers and as a result, revolutionary and improved ways of utilizing asbestos are constantly being discovered and proven.

In keeping with this, *Turner & Newall* completed its Asbestos Fibre Laboratory at Trafford Park, Manchester, England, and this is the only establishment in the world devoted exclusively to fundamental research on asbestos fibres.

The following pages summarize what has happened in the Asbestos Industry during 1963.

MISCELLANEOUS

Penge Asbestos Mine installed the first fully-automatic remotely-controlled air compressor in the world, which was started by an electrical impulse which originated in Johannesburg.

Universal Asbestos Manufacturing Co. Ltd.'s Sheeting Division received its largest order for Fort sandwich construction asbestos-cement sheeting from Europe's biggest shoe warehouse.

Carey-Canadian Mines Limited appointed Chemische Productenhandel J. J. Van De Vrande as agents for its asbestos fibres and shorts in the Netherlands.

Pittsburgh Corning Corporation is now manufacturing *Unibestos*, a premium quality, high-temperature pipe insulation, at the Tyler, Texas, plant acquired from Unarco Industries, Inc. in 1962.

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A NEW, LOW COST SHORT FIBRE FOR FILLER APPLICATIONS

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photomicrograph of Superfine Asbestos — 55,000 magnification



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American Vermiculite Corporation is entering into the Asbestos Field. The new entry is a subsidiary of Hans Merensky Investment and Trust Company Limited and is presently operating under the name Merencor Asbestos Mines (Pty) Limited.

Turner & Newall are to be substantial stockholders in a new company, "Ferodo Espanola S.A.", to be formed to manufacture and sell Ferodo brake linings and clutch facings in Spain.

The Ruberoid Co. has announced West Coast representation for T/NA 200 roofing membrane: Wallbestos, Inc.—Northwest area; Mr. Philip C. Pendleton—Northern California area; and, Structural Materials Company—Southern California area.

Fresno County, California is the site of a new major find of 720 acres of land containing over 100,000,000 tons of chrysotile asbestos. This was announced by Clifford D. Ward, Jr. and Meredith C. Brown, both of Western States Minerals Company, and their associate, Louis C. Ball.

ASSOCIATIONS

Asbestos Textile Institute—J. A. D. Marcotte received a scroll from ATI in commemoration of his many years of association with the Asbestos Industry and the Institute. Also, as a matter of interest, Asbestos Corporation presented Mr. Marcotte with a silver platter commemorating his 50th anniversary with the company. This was presented at a dinner in Mr. Marcotte's honor.

Herbert E. Sunbury was appointed Executive Secretary and Assistant Treasurer of ATI succeeding Dr. Myril C. Shaw.

Dr. Shaw received a gold wrist watch in recognition of his dedicated service to ATI over the last 17 years.

American Society for Testing and Materials—A new ASTM technical committee was formed to be responsible for standards on non-metallic inorganic fibers. The initial efforts of the committee will be directed toward definition of terms and methods of tests.

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JAPAN ..... IWAI & COMPANY, LTD., No. 6, Nihonbashi Edobashi, Chome, TOKYO

BELGIUM ..... JOS IDE & FILS, 60, Avenue d'Auderghem, BRUSSELS 4

GERMANY ..... ERNEST WERNER, Import von Rohasbest, Katharinenstrasse 30, "Edmundhaus," HAMBURG 11,

FRANCE ..... MINERAIS & METAUX, 61 Avenue Hoche, (Boite Postale 96-08) PARIS (8e)

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Quebec Asbestos Mining Association—Paul-A. Filteau has been appointed Secretary-General of QAMA with offices located in Quebec City, Canada.

Thermal Insulation Association of Canada—This Association is comprised of manufacturers, suppliers and contractors and was formed to promote harmony in the insulation trade and stabilize the industry. T.I.A.C. held its first annual convention on September 26th to 28th, 1963, and appointed its officers.

MERGERS, ACQUISITIONS & AGREEMENTS

Cape Insulation and Asbestos Products Limited has assumed, by mutual agreement, from William Kenyon & Sons (MetaMica) Limited, direct responsibility for the sale and distribution of its thermal insulation products.

British Belting and *Bendix* have reached an agreement in principle whereby Bendix will become associated with B.B.A. in the manufacture and sale of brake linings.

American Brake Shoe and *Shin-Mitsubishi Heavy-Industries* have established Nihon Denison Hydraulics Kabushiki Kaisha (Denison Hydraulics, Japan, Limited) which is licensed to manufacture and sell various American Brake Shoe hydraulic products.

Woodward Iron and *ASARCO* have entered into an agreement to form a new corporation to produce asbestos-cement pipe and other asbestos-cement products.

Baldwin-Ehret-Hill, to round out its line of insulating products, has acquired *Standard Asbestos Manufacturing Company* and the company will operate as a Division of BEH.

Cape Asbestos has concluded an Agreement with *Imperial-Eastman*, Chicago, Illinois, under which joint companies will be established in the United Kingdom, the European Economic Community and the Republic of South Africa, for the manufacture and sale of certain of the products of that corporation. The works of the British company "Imperial-Eastman (U.K.) Limited", Bedford, will commence trading operations on January 1st, 1964,

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Johns-Manville has agreed to purchase an asbestos textile plant at Marshville, North Carolina, from *Unarco Industries*. The plant will be operated by the J-M Packings and Friction Materials Division.

Flintkote has agreed to purchase certain floor tile manufacturing machinery and equipment from *B. F. Goodrich*. Flintkote will now produce its own line of Flexachrome (R) vinyl-asbestos and Tile-Tex (R) asphalt-asbestos floor tile at Watertown, Massachusetts, leasing the necessary plant space from Goodrich.

CHANGES WITHIN COMPANIES

Raybestos-Manhattan formed the Aerospace Division, a new sales division to specialize in the sale of R-M Asbestos Reinforced Plastics and Fluorocarbon products for the rocket, missile and space industries.

Certain-teed created a separate Pipe Division at Ambler, Pennsylvania, to operate the sale, manufacturing, purchasing and traffic phases of its "K&M" asbestos-cement pipe.

Turners Asbestos Fibres Limited, formerly Raw Asbestos Distributors Limited, moved its offices, about 600 yards, to Faulkner House in Manchester, England.

Unarco Industries, Inc. is the new corporate name of the Union Asbestos & Rubber Company, which became effective April 17th of this year.

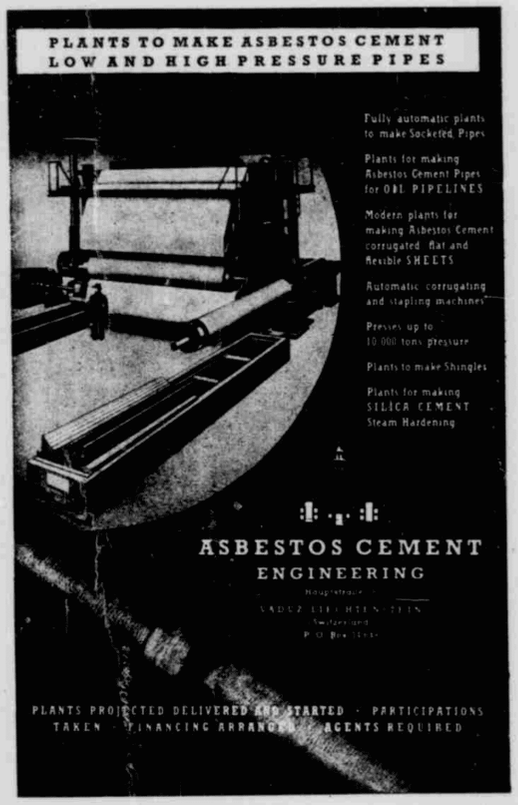
Turner & Newall has decided to create a new department to be known as the "Turner & Newall Building Development Department", which will be responsible for developing composite products and systems based upon materials made either now or in the future by one or other of the T&N manufacturing companies.

Turner Brothers Asbestos Co. Ltd. is centralizing its research activities and providing more space and improved facilities by erecting a new building on its Rochdale factory site.

MATERIALS

Johns-Manville Corporation

Blastape—a unique asbestos Inconel tape used to cover erector system cables, thrust mount accessories, oxidizer



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and fuel fill system, umbilical cables, ground cables, lift-off switch cables, explosive bolt cables, and vent lines.

Asbestos-asphalt curbing mixes—gaining wide acceptance in all parts of the United States and Canada, according to a year-end survey by J-M;

Thermomat 383—an asbestos-phenolic molding mat in felt form, developed to provide exceptionally lightweight thermal shielding and high strength to weight ratio, which is so desirable for such low density molded material;

Levelride—new type asphalt paving, developed by Cold Mix, Inc., and made in conjunction with J-M's Research Center;

Asbestos-Cement Bulkhead—new corrugated bulkhead specifically designed for use as sheet piling in protected inland waterways and on lakefronts, consisting of laminated sheets of asbestos fibers and Portland cement formed under pressure to produce the deep 4¾" corrugations necessary for most installations.

Baldwin-Ehret-Hill, Inc.

Pyrospray—a fireproofing spray-on asbestos and mineral fiber material, has undergone new tests by Underwriters Laboratories, Inc. (U.S.A.) which certify its improved fire resistance.

Cape Building Products Limited

Door Panels; Soffit Strips; Cartoned Asbestolux Panel—three new products introduced to meet the growing demand for more pre-cut board material. Also, CBPL has added a 60-pound density wallboard to its Asbestolux range of products.

Orangeburg Manufacturing Company

Flintite—new line of Flintite asbestos-cement pressure and gravity sewer pipe for municipal installations; building sewer pipe for house to street sewers; irrigation pipe; air duct for warm air heating and air conditioning installations; and, electrical conduit for power, lighting and communications systems installed underground.

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Universal Asbestos Mfg. Co. Ltd.

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Nicolet Industries, Inc.

K&M 226—a new white compressed asbestos sheet packing material designed for use in industrial, automotive and petroleum gasketing applications.

Kon-X Bearing Pads—designed for use as vibration dampeners in bridge construction, composed of asbestos fibers and a synthetic rubber elastomer.

MINES, MILLS & PLANTS

Pangani Asbestos Mine—being transformed into one of the major asbestos mines in Southern Rhodesia; officially opened on August 9th, 1963 and is being developed in three stages; will ultimately be the third largest producer of asbestos fiber in the country.

Penge Asbestos Mine—Recent research indicated that the amosite asbestos deposits at this mine in Transvaal, South Africa, could persist to great depths below surface. The largest proportion of amosite mined comes from Penge and it's two satellite mines at Weltevreden and Kromellenboog.

Thornwood Asbestos Mine—near Gwanda, Southern Rhodesia, is said to be resuming production after a lapse of about 8 months since its last recorded output.

National Gypsum—expanding its asbestos mine and plant at Thetford Mines, Canada, and its fiber insulation board plant at Mobile, Alabama.

Union Carbide—constructed an experimental pilot plant near King City, California, to process asbestos ore to determine uses for short fiber asbestos found in its deposit near Coalinga.

Orangeburg—completed its new $10-million asbestos-cement pipe plant at Ravenna, Ohio. This is the newest and most modern pipe plant in the country and will produce a complete line of Flintite products.

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Benjamin Foster Company—opened its second plant within the past two years, in Chicago, Illinois.

Hedman Mines Limited—completed over 260 bull tests in its pilot plant at Matheson, Canada, on raw material from its asbestos property; these tests indicate that a recovery of $27.49 per ton can be made in three regular grades of asbestos.

White Pipe Products Co. Ltd.—established a plant in Regina, Saskatchewan, Canada, in connection with a new company which will fabricate and distribute a complete line of asbestos-cement pipe and cast iron fittings for interior building use in western Canada.

Advocate Mines—Advocate's new asbestos mill is presently operating on a test basis and the plant should shortly reach its rated capacity of 5,000 tons per day. This $25-million project has been brought to production under the management of *Canadian Johns-Manville*.

Comet Mine—recently reported extensive deposits of white asbestos in the Marble Bar area in Australia

FACTORIES

Turners Asbestos Cement Company opened its new £1-million moulded asbestos-cement products factory on the Ditton Industrial Estate in England.

Turners Asbestos Cement (Nigeria) Limited is operating a new factory at Emene, Nigeria, to produce asbestos-cement goods.

Ferodo (Pty.) Limited is a new manufacturing and selling company in South Africa formed to manufacture brake linings, clutch facings and compressed asbestos fibre jointing.

Everite Limited is negotiating to buy ground to build an asbestos-cement sheet products factory in Cape Province, Republic of South Africa.

RETIREMENTS

Miss Irene Seaman, Turners Asbestos Cement Company Limited, November 30, 1962;

Miss Gwendolen Jones, Turners Asbestos Cement Company Limited, May 1962;

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E. L. Deacon, Vice President and Treasurer, Nicolet Industries, Inc.;
Reginald L. Johnson, Vice President and Director of Advertising and Public Relations, Johns-Manville;
J. D. MacKenzie, Chairman, American Smelting and Refining Company (remains as a Director);
George F. Bahrs, Elmer N. Funkhouser, Frank J. McGinley and Edward M. Railton, Directors, The Ruberoid Co.
F. Wood, Production Director, Turner Brothers Asbestos Company Limited, May 1963;
J. A. Young, Manager of Auckland Branch of Hume Industries (N.Z.) Limited, March 1963;
Walter E. Hess, Division Vice President of Sales, The Philip Carey Manufacturing Company;
J. J. De Mario, Advertising and Publicity Manager, Manhattan Rubber Division, Raybestos-Manhattan, Inc., July 1, 1963;
G. S. Suteliffe, Chairman, J. W. Roberts Limited;
Kenneth Neve, Chairman, Turners Asbestos Cement Co. Ltd.

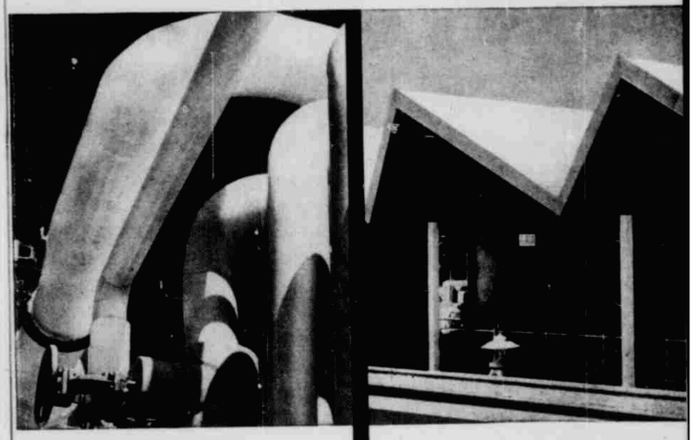
DEATHS

It is with much regret that we had to record the passing of the following men in the Asbestos Industry:

William Warr, retired Senior Sales Engineer for Manhattan Rubber Division, Raybestos-Manhattan, November 28, 1962;
James MacDonald, President, H. W. Porter & Co., Inc. and its wholly-owned subsidiaries, Ried Hayden and Porter-Hayden Conduit, December 4, 1962;
William Miller Paxton, III, Manager, Sheet Packing Department, Stratford Division, Raybestos-Manhattan, and member of Board of Associates of University of Bridgeport, Febuary 10, 1963;
Walter F. Kirkham, Vice President, Asbestos Erectors of Canada, March 29, 1963;
Lorne R. N. Bain, prominent figure in Canada's Asbestos Industry and one of the eight world-wide owners of the "Asbestos Story Ring", June 11, 1963;
Herbert E. Palm, Works Manager, Raybestos-Manhattan, May 10, 1963;

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Don Jose Esteva Casals, Founder, Manager and Chairman, Rocalla, S.A., Barcelona, Spain, May 4, 1963;

T. R. O'Connor, represented Asbestos Textile Division, Raybestos-Manhattan, in Cleveland, Ohio, January 1963;

Stanley Woodward, Director and former President, The Ruberoid Co., September 1, 1963;

Col. Maurice H. Wright, USA (ret.), Special Representative, Government Department, United States Rubber Company, October 1, 1963;

Edwin Michael Freeman, founding President, United Asbestos Corporation, and former Vice-President, Canadian Asbestos Corporation, October 16, 1963;

J. C. Nielsen, responsible for sales of friction materials, Cape Asbestos Group, October 24, 1963.

EXECUTIVE APPOINTMENTS

American Brake Shoe Company—Kempton Dunn, Chairman of the Board of Directors and Chief Executive officer; William B. Given, Jr., Honorary Chairman; John S. Hutchins, President and Chief Operating Officer; Victor V. Blasutta, Vice President.

American Smelting & Refining Company—Edward McL. Tittman, Chairman of the Board; Robert D. Bradford, President; Charles F. Barber, Executive Vice President; Aubrey M. Callis, Vice President, Federated Metals Division; Ralph L. Hennebach, Vice President, Smelting and Refining; Clarence E. Nelson, Director; Clement P. Pollock, Vice President, Exploration; Douglas H. Somar, Vice President, Industrial Relations; R. Worth Vaughan, Vice President and General Counsel.

Atlas Asbestos Company Limited—George Barge, Vice President, Finance.

Baldwin-Ehret-Hill, Inc.—Walter H. O'Connell, Vice President, Manufacturing.

Beldam Asbestos Company Limited—Alex Logan, Deputy Chairman and member of Board.

Bell's Asbestos and Engineering (Holdings) Limited—C. W. Bell, life President; H. F. Allen, Chairman.



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Carey Canadian Mines Limited—E. A. Boadway, President; G. C. Scoweroft, Vice President and Director.

Cape Asbestos Group—H. Middlehurst, F. W. Moran and G. E. Taylor, members of the Board of Small and Parkes; R. Atkins, J. S. Jewers and H. E. Martin-Leake, members of the Board of Kismet; Leslie H. Smart, member of the Boards of Cape Building Products and Harefield Lime.

Cassiar Asbestos Corporation Limited—John Despard Christian, President and member of the Board.

The Flintkote Company—George J. Pecaro, Chief Executive Officer; Frank Wilkie, member of the Board, The Flintkote Company Limited, London; William Wallace Mein, Jr., Director; James A. Main, Vice President, Flintkote Mines Limited.

Johns-Manville Corporation—Faustin J. Solon, Jr., Vice President and Director of Advertising and Public Relations; James R. Allen, Jr., Vice President, J-M Dutch Brand Products Corporation.

Mundet Cork Corporation—Leon T. Choate, President and General Manager, Mundet Insulation Contracting Division; Carl Schiesz, Controller.

National Gypsum Company—Melvin F. Cerruti, Executive Vice President.

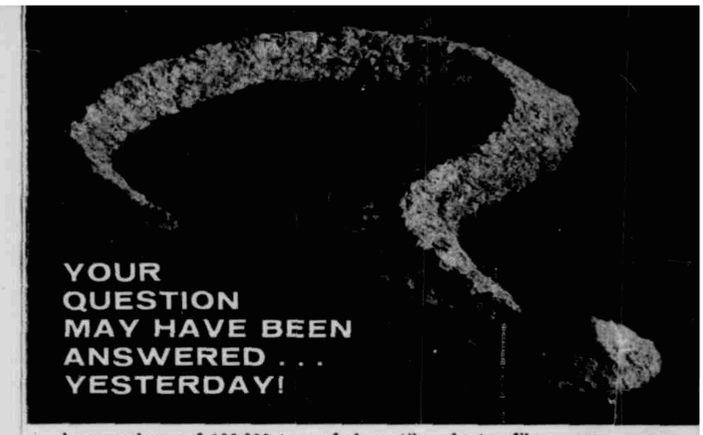
Nicolet Industries, Inc.—Dr. Roger W. Sanftner, Vice President, Development; H. C. Papritz, Vice President and Treasurer; Robert M. Stroud, Vice President, Sales.

H. W. Porter & Company, Inc.—Raymond J. Sachs, President, Porter and its subsidiaries, Ried Hayden, Inc. and Porter-Hayden Conduit Company.

The Ruberoid Co.—Gavin K. MacBain, Director; Elmer N. Funkhouser, Jr., Director; Thomas H. Dermody, Director; O. A. Maggia, Treasurer; Robert N. Ettlinger, Comptroller.

Smith & Kanzler Corporation—A. E. Binger, Vice President.

Turner & Newall—R. M. Bateman and G. S. Sutcliffe, Joint Managing Directors; J. Waddel, Director of T&N and Chairman of Turner Brothers Asbestos Company Limited and Glass Fabrics Limited; A. C. Mann, Home Sales Director of Turner Brothers Asbestos Company



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Amsterdam

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Limited and Director of Glass Fabrics Limited; J. P. McCormick, Chairman, Turners Asbestos Cement Company Limited; M. F. Howe, Acting Managing Director, Turners Asbestos Fibres Limited; A. N. Marshall, Chairman, J. W. Roberts; G. A. Wilson and J. R. Stevenson, Directors, J. W. Roberts.

United Asbestos Corporation Limited—Philip M. Malouf, President; Richard F. Dooley, Vice President; J. Arthur Dupont, Director.

SPECIAL APPOINTMENTS

W. E. Sinclair, M.I.M.M.—Consulting Engineer, Putten's Asbestos Corporation Limited.

M. S. Badollet—retired Research Engineer of Johns-Manville, appointed Consultant in Industrial Hygiene to Health Institute, Fairleigh Dickinson University.

Dr. J. J. le R. Cilliers—Chief Geologist, Asbestos Investments (Pty) Limited.

FILMS

The Bright Approach to Heat Control—16 mm, full color, sound motion picture, available for viewing by users of high-temperature pipe insulation from the Motion Picture Department of Johns-Manville.

PAPERS & SURVEYS

Quality Control and Asbestos Processing Go Hand-In-Hand At Jefferson Lake, by Ralph S. Torgerson—appeared in June 1963 "Rock Products".

California Asbestos Industry, by Salem J. Rice, Staff Geologist for the California Division of Mines and Geology—appeared in September 1963 "Mineral Information Service".

Studies of Asbestos-Cement Pipe and Plate: Selected Chemical and Mechanical Tests, by P. J. Brennan and N. L. Nemerow—presented at ASTM 64th Annual Meeting and sponsored by Committee C-17 on Asbestos-Cement Products.

Asbestos in 1962—Annual preliminary Mineral Industry Survey on Asbestos, published by U. S. Bureau of Mines.



Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 15095, Lockland, Cincinnati 15, Ohio, or The Philip Carey Company, Ltd., Ville St. Laurent, Montreal 9, P.Q., Canada.

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Paper From Inorganic Fibers—technical paper prepared by Reuben A. Keppel, Research Associate, and Robert D. Walker, Jr., Professor of Chemical Engineering, both of the University of Florida.

Chemical Resistance Of Asbestos-Cement Pipe, by E. F. Wagner—discussion on "Chemical Resistance of Asbestos-Cement Pipe" and "Sulfate Resistance of Asbestos-Cement Pipe"; appeared in November 1963 "Materials Research & Standards".

CATALOGS & MANUALS

1963 Catalog of American Standards—lists more than 2,000 American Standards in addition to recommendations of the ISO and IEC; published by the American Standards Association.

STP 335—ASTM Manual for Conducting an Interlaboratory Study of a Test Method; deals with the design, analysis and interpretation of interlaboratory studies of test methods ($2.00).

BROCHURES

Aerofall Mills Limited—Bulletin 63A, theoretical and practical applications of the Aerofall Mill System.

Albany Felt—"Detailed Specification Folder", custom-designed dust filter for industrial application operating on a new "air-shake" principle of bag cleaning.

Bauer Bros.—G-25, covers the Bauer line of Single and Double Shaft Crushers and contains illustrations and engineering details of 249CS and 249C units which are designed to handle a wide range of high volume coarse size reduction applications; P-8-A, Bauer-McNett Fiber Classifier, available to quality control personnel concerned with organic, inorganic or synthetic fiber processing and classification; Bulletin 63, entire line of Bauer equipment.

Cape Building Products—"Asbestolux", 4 new sales leaflets to promote sales of this non-combustible insulating board.

Garlock—AD 214, five styles of gasketing tapes, seven styles of folded asbestos gaskets, eight styles of gasketing coil.

NORAMITE

Versatile NORAMITE Non-Woven Fabrics Offer The Manufacturer Opportunities For Product Quality, Production Economy

Non-Woven Asbestos Fabrics

These flexible new materials, based on long Crocidolite and Amosite asbestos fibers, offer an economical basic fabric suitable for a multitude of products. Insulating liners; base fabric for gaskets, for foil or coatings; plastics reinforcement – are a few of the many possible applications for NORAMITE Non-Woven Fabrics.



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In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

Subsidiaries of The Cape Asbestos Company Ltd. • London

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Johns-Manville—TR-325A, Chemtite Pipe, an asbestos-reinforced resinous product; TR-282A, new developments with Transite Air Duct; TX-17A, complete line of asbestos textiles; TR-359A, applications of Transite asbestos-cement pipe and PVC and ABS plastic pipe to turf irrigation systems; TR-373A, Fact Sheet providing salient information on Transite Asbestos-Cement Water Pipe; AFD-21A, benefits of using asbestos-asphalt thin overlays over conventional paving materials.

Orangeburg—AC62PP-1, properties and applications of Flintite asbestos-cement pressure pipe and Weld-Tite couplings; AC62-NPS-1, line of Flintite asbestos-cement sewer pipe for non-pressure, gravity-flow sewer systems; AC62BS-1, properties and applications of Flintite asbestos-cement building sewer pipe.

Turner Brothers Asbestos—"Welcome to Turners", details Turner's manufacturing activities, general introduction dealing with asbestos and its history and commercial development; "Asbestos Rope Lagging", three grades available of asbestos fibre-filled rope lagging; "Asbestos Textiles For Industrial Purposes" varieties of asbestos available, their commercial properties and how mined, asbestos textile manufacture in general. Turner textile products, in particular, logical sequence of textile processing and every stage of production together with products available at that stage.

H. K. Porter Company—NO. 4005, complete lines of industrial multiple V-belts for every type of power drive.

OTHER PUBLICATIONS

ASTM—C460-63, list of definitions of terms relating to asbestos-cement products; 1962 Supplements to the 1961 Book of ASTM Standards; 1962 Index to ASTM Standards; STP 333, Directory of Testing Laboratories, Commerical and Institutional ($1.50); STP 329, Coden for Periodical Titles ($20.00); 1962 Proceedings, Volume 62 ($12.00); 1963 Supplements to the 1961 Book of ASTM Standards.

Carey—Data Sheet on Careytemp Premolded Elbow Insulation now available for industrial application.

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

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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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L'Union Des Constructeurs—"Directory of Textile Machines and Accessories", published by L'Union Des Constructeurs De Material Textile De France", contains many illustrations and an alphabetical index where reference numbers are given for all textile machines and accessories.

The Mining Journal—"Annual Review", 1963 edition, summarizes events in the mining industry throughout the world, assesses the immediate outlook for the various sectors of the Industry and reviews the mining industry country by country.

U. S. Bureau of Mines—Asbestos Chapter, Preprint from 1962 Minerals Yearbook (10¢).

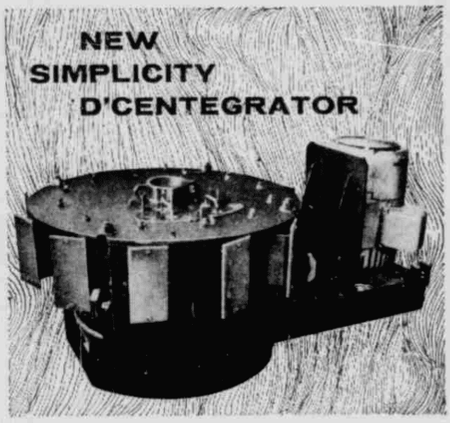
CL. Attenkoferscbe—"Asbestos-Cement Machinery" contains the newest state of construction on the asbestos-cement machinery industry and may be obtained from CL. Attenkofersche Buch- und Kunstdruckerei — Verlagsbuchhandlung, PostschlieBfach 100, 844 Straubing, Germany.

Dominion Bureau of Statistics—Catalog No. 44-203, "Canada's Asbestos Products Manufacturers 1960 (50¢).

This is our record of the Asbestos Industry for 1963. We believe "ASBESTOS" has been a source of information and interest to its readers. At the close of another year of recording the events that occurred in the Asbestos Industry, we again acknowledge with sincere appreciation the cooperation of all who have in so many ways made "ASBESTOS" possible and hope the same good will and mutual assistance will continue. We feel that this magazine is in some ways unique, and from comments received, is considered a record of the Industry. We will continue in our endeavors to serve the Asbestos Industry to the best of our ability. Long may the good will established over the years continue and even increase and may the New Year ahead bring prosperity and effective service to all.

ASBESTOS BOARD SPECIALIST

Man with several years experience in development and manufacture of all types of asbestos and cellulose boards, master's degree, chemical and geological background, seeks technical post in company manufacturing in Asia, South or Central America, Africa, or Australasia.
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Produces longer fibres with fewer fines

On-the-job performance has proved that the new Simplicity D'centegrator will produce longer fibres. The horizontal impeller action fibrizes so thoroughly that the longer fibres are not "dirtied." Tests to date also indicate a higher recovery rate and a lower percent of fines. Basic design permits lower initial cost and exceptionally low maintenance costs.

Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

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

Simplicity
ENGINEERING COMPANY • Durand 18, Mich.

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

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THE HEAT RESISTANCE

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Many industries have found asbestos fibre a mineral filler of wide and diverse applications because of its many unique properties . . . particularly its exceptional heat resistance. A standard ingredient in many high-temperature applications . . . flame-proof J-M asbestos fibre resists loss of tensile strength during exposure to high temperature.

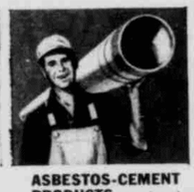
Other important properties of J-M asbestos include high tensile strength (greater than an equal thickness of ingot of wrought iron) . . . extreme fineness (a bundle of 1500 asbestos fibres is finer than one human hair) . . . and high bulking action . . . any of which can improve your product. For free literature, write to Canadian Johns-Manville Co., Ltd., Box 1500, Asbestos, P. Q., Canada, or to Johns-Manville Asbestos Fibre Sales, Research and Engineering Center, Manville, N. J.



PLASTICS such as distributor heads have greater heat resistance and dimensional stability, when made with J-M asbestos fibres.



FLOOR TILE has more strength, better processing characteristics and more "give" without cracking with J-M asbestos fibres in the formula.



ASBESTOS-CEMENT PRODUCTS are structurally stronger, more flexible and have more resistance to impact when they contain J-M asbestos.

JOHNS-MANVILLE

THE NAME TO THINK OF FIRST FOR ASBESTOS FIBRE

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ASBESTOS AROUND THE WORLD

Young Greek Company Is Growing Fast

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

Living in a land where asbestos has been a byword for nigh onto 80 years, Canadians may find it hard to believe that asbestos can be a new industry anywhere. Or that many people need to be convinced of its resistance to heat and cold. But that is the case in Greece, a rocky sunlit country of nine-million people suffering winter blasts as well as hot summer winds that parch the earth as they move south.

The Greek pioneer is the Hellenic Industry for Building Materials Company Limited, of Athens, more generally known as Hellenic. It is now in its third year of operation with a plant of 300 men at Chalkis on the island of Eubeia, 50 miles northeast of the historic capital city. The first year they turned out 15,000 tons of asbestos pipes, sheets and hand-moulded products. The second year they hit the 25,000-ton mark and this year will produce close to 40,000 tons.

This does not mean that asbestos was unknown in Greece three years back. Iron and steel piping has been giving way in recent years to the newer high-pressure asbestos pipes for bringing water to Greek villages. Many had no local supply and even if a village well was available, it was usually dirty and full of salts. Before Hellenic was established, these pipes had to be obtained abroad with the government holding an international auction annually when suppliers could compete for the healthy contract. For the past two years, Hellenic won the whole contract—$2-million of water pipes in 1962, $1.5-million this year.

"This demand for asbestos pressure pipes will continue," says Dennis Cannellatos, the dignified Managing Director of Hellenic. "Asbestos is as strong as iron and only one-third the cost. We still have many villages in Greece without water and our people carry jars many kilometers to get what they need."

But the use of asbestos sheets and hand-moulded products is a different story. "Here we have to create the market," explains Mr. Cannellatos. "Country people up to now have used aluminum sheets and clay tiles for roofing. The asbestos industry is young so we have to introduce it to the people."

For this reason the young company has a very aggressive education campaign: top executives speak to technical groups; students, government engineers and teachers tour its factory; regular advertisements run in the newspapers; and salesmen and agents scour the countryside for potential purchasers. Since September 1962, Hellenic has distributed each month 6,000 bulletins with product news (in Greek, of course) and just this spring put out a more elaborate English brochure showing how and why asbestos sheets should be used. Last year they made their first appearance at trade exhibitions—an international fair at Salonika and a Modern Homes Exhibition in Athens. Here Hellenic products were so arranged that they appeared as a house front.

Today's sheet production is only 15 per cent of the total. Five per cent of production includes all hand-moulded products—rain water butts, ridges for roof coverings, water tanks for farmers, etc. But the campaign is paying off. "We're sure the hand-moulding will increase as soon as Greek people learn to use these materials," confidentially says Anthony Saoulis, young Technical Manager of the company. "For example, last year we had an order for the complete building requirements of the Dow Chemical Company's polystyrene plant at Laureum."

Canadian asbestos suppliers are happy to see the Greek production figures rise because several share in the company's order for chrysotile fibres which last year totalled 1,000 tons. "Generally speaking, all the Canadian asbestos is well prepared and uniform in quality", says Mr. Cannellatos.

Keeping Greek compatriots supplied with asbestos products has so far absorbed the quantity put out by the Chalkis factory. But already Mr. Cannellatos is planning to tap the export market. "Exporting is a slow business," he says. "We will go into it in time."

If he and his company apply the same aggressive techniques to their export trade that they use at home, present international suppliers will undoubtedly have to cope with a very strong competitor.

Asbestos Magazine, 1963, December 1963
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AUTOMOBILE SALES

	September 1963
Passenger Cars	481,810
Trucks and Buses	116,993
	598,803

In September 1962 a total of 519,940 motor vehicles were sold. In the 9 months of 1963 the total was 6,399,647.

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

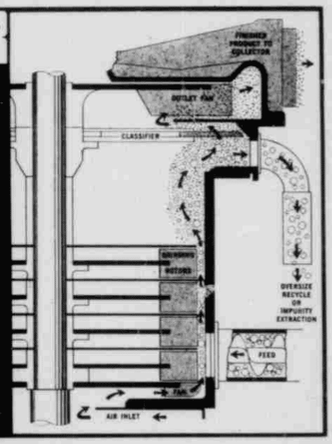
ASBESTOS-CEMENT MACHINERY is the title of a very interesting book which contains the newest state of construction on the asbestos-cement machinery industry. The information in this book is a timely step forward and contains a summary and an outlook on this industry. The trend in the future will be to make asbestos-cement pieces in only one working process.

Copies may be obtained by writing: CL. Attenkofersche Buch- und Kunstdruckerei — Verlagsbuchhandlung, PostschlieBfach 100, 844 Straubing, Germany.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
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BAUER

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Extracts Impurities—
Product Quality Up! Grinding Cost Down!

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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.

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THE NATIONAL PLANT ENGINEERING & MAINTENANCE SHOW, which had its start in Cleveland, Ohio, in 1950, will return to that city for its 15th annual show January 27th through 30th, 1964. The annual conference, which is held concurrently, will end one day earlier. Both the exposition and conference will take place at the Public Auditorium.

In addition, on January 24th, 25th and 26th, the Executive Development Seminars, started in 1963, will be held at the Hotel Sheraton-Cleveland, and on January 30th and 31st, also at the Sheraton-Cleveland, the Executive Study Groups, now in their 11th year, will be conducted.

RUBEROID has announced West Coast representation for *T/NA 200* roofing membrane. Distribution of the recently-developed prefabricated built-up roofing system throughout the Northwest will be handled by *Wallbestos, Inc.*, Seattle, Washington, a long-time distributor of Ruberoid's asbestos-cement building products. Northern California distribution will be handled by *Mr. Philip C. Pendleton*, Menlo Park, California. Distribution in Southern California will be handled by *Structural Materials Company*, Montebello, California.

T/NA 200 consists of Tedlar (R) PVF film, developed by the DuPont Company, laminated to Ruberoid's asbestos felt. Extremely light and flexible with unusually high resistance to weather, chemicals and other normally damaging conditions, Ruberoid T/NA 200 is applicable for any roof shape or contour with customary installation methods and materials.

JOHNS-MANVILLE has agreed to purchase an asbestos textile plant at Marshville, North Carolina, from UNARCO INDUSTRIES. The plant will be operated by the J-M Packings and Friction Materials Division.

The decision to dispose of the Marshville plant was made as part of a Unarco program to relinquish certain of its asbestos product lines, to permit further expansion in the Chemical Products and Material Handling fields.

H. K. PORTER COMPANY, INC., Thermoid Division, Porter Building, Pittsburgh, Pennsylvania 15219, describes, in detail, its complete lines of industrial multiple V-belts for every type of power drive, in a new catalog, No. 4005. The V-belts described are: Super Powerflex Multi V-Belts; Powerflex Wedge Belts; Double V-Belts; Open End V-Belts; and, Fractional Horsepower V-Belts. Thermoid produces a wide variety of rubber and friction products. Some of the major products are conveyor and transmission belts, industrial hose, V-belts, sheet packing, as well as automotive fan belts, radiator hose, clutch facings and asbestos textile materials.

Porter produces a wide variety of industrial and consumer products in 60 plants throughout the world. Principal products include steels and specialty alloys, rubber and friction products, asbestos textiles, electrical equipment, refractories, paint, forgings and fittings, tool steel, hand and power tools, special fabricated metal products and hydraulic equipment.

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Specialized in the manufacture of

HIGH QUALITY RUBBER RINGS

for all types of joints for asbestos-cement pipes.

Suppliers of the largest manufacturers of asbestos-cement pipes in Europe.

J. C. NIELSEN died suddenly on October 24th, 1963, at the age of 57. He had been with the Cape Asbestos Group of Companies for 26 years, during the latter part of which he was responsible for sales of friction materials to public service vehicle operators throughout the country.

The above announcement was made by Small and Parkes Limited, Manchester, England.

THE CAPE ASBESTOS CO. LTD. has concluded an Agreement with *The Imperial-Eastman Corporation*, Chicago, Illinois, under which joint companies will be established in the United Kingdom, the European Economic Community and the Republic of South Africa, for the manufacture and sale of certain of the products of that Corporation. Imperial-Eastman is famous for its range of hose and coupling materials in the hydraulic field and also manufactures fluid lines, valves and fittings with many industrial applications.

The works of the British company, to be known as "Imperial-Eastman (U.K.) Limited", will be established in Bedford and will commence trading operations on January 1st, 1964. It will form an important addition to the Engineering Division of Cape Asbestos.

THERMAL INSULATION ASSOCIATION OF CANADA held its first annual convention at St. Jovite, Quebec, Canada, on September 26th to 28th, 1963, where the following officers were appointed. President—Ernest A. Eaman; Secretary-Treasurer—Albert Fryer; Directors—Noman L. Barr, A. D. Guildford, W. Wilson, Jr., Donald K. Book, Charles Thompson, Ian Dewar, J. Steele and A. G. Shore. As the T.I.A.C. holds a National Charter, the Directors were appointed to represent the industry from coast to coast. The Association is comprised of manufacturers, suppliers and contractors, and according to Mr. Fryer, "It is hoped that through the combined efforts of the Manufacturers, Sales outlets, and Applicators, we will be able to raise the standards of our service to the Public, stabilize the industry and promote harmony in the insulation trade.

NICOLET INDUSTRIES' Keasbey & Mattison Division has available *K&M 226*, a new white compressed asbestos sheet packing material designed for use in industrial, automotive and petroleum gasketing applications and recommended for steam, water and general refinery use, especially refinery gases. K&M 226 is composed of graded asbestos fibers bonded under pressure with SBR (Styrene-butadiene rubber) compounds to form a pliable homogeneous sheet. It comes in a variety of thicknesses, ranging from 1/64" to 1/8", and in standard sizes of 50" by 50" and 50" by 150", packaged in roll form. In 1/32" thickness, it has a transverse tensile strength of 2,400 pounds per square inch and an average tensile strength of 4,200 pounds per square inch. It has a compressibility rating of 12% at 5,000 psi, a recovery rating of 40% minimum, and a density of 107 pounds per cubic foot.

KEASBEY & MATTISON DIVISION of *Nicolet Industries, Inc.* has announced the availability of its new *Kon-X bearing pads* designed for use as vibration dampeners in bridge construction. When placed between steel or prestressed concrete beams and bridge abutments, Kon-X bearing pads effectively reduce vibration and stress on bridge members caused by vehicular traffic. They are also recommended for use as spacers under pedestals, beams and guard-railings. In such applications, Kon-X bearing pads prevent electrolytic action between dissimilar metals. These dark grey bearing pads are composed of asbestos fibers and a synthetic rubber elastomer bonded under pressure into a pliable and resilient sheet with a lubricating coating on one side.

POLYREZ ®
Phenolic & Cashew Resins
Cashew Dusts & Polymers
POLYREZ COMPANY, INC.
RAILROAD & SO. COLUMBIA WOODBURY, N.J.

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CHEMICAL RESISTANCE OF ASBESTOS-CEMENT PIPE, by E. F. Wagner, is a very interesting discussion on two papers published in Materials Research & Standards: "Chemical Resistance of Asbestos-Cement Pipe", by William Lerch; and, "Sulfate Resistance of Asbestos-Cement Pipe", by P. W. Manson and L. R. Blair. Mr. Wagner is Secretary of the Research & Test Committee of the Cast Iron Pipe Research Association, Chicago, Illinois. This discussion appeared on pages 918-922 of the November 1963 issue of *Materials Research & Standards* (available from ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103).

"ASBESTOS" will be glad to lend its copy to interested readers.

1963 SUPPLEMENTS to ASTM's 1961 Book of Standards are now being printed. However, only six 1963 Supplements will be available: Parts 2, 3, 4, 5 (includes asbestos-cement products, thermal insulation and acoustical materials—38 Standards, 252 pages; members $5.20, non-members $6.50), 6 and 10. All others will be published in appropriate parts of the *1964 Book of Standards* early in 1964. Starting with the 1964 Edition (consisting of 32 parts), the Book of ASTM Standards will be revised and republished *annually*. The materials which is being published in the 1963 Supplements will not appear in a revised form until the latter part of 1964 when comparable parts of the 1964 Book will be issued.

For further information, contact ASTM Headquarters, 1916 Race Street, Philadelphia, Pennsylvania 19103.

ASTM COMMITTEE WEEK—February 3rd to 7th, 1964, at the Sheraton Hotel, Philadelphia, Pennsylvania.

BURGDORF K.G.
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Exporters of
RAW ASBESTOS
ALL GRADES—ALL TYPES
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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.

THE FLINTKOTE COMPANY has made an agreement to purchase certain floor tile manufacturing machinery and equipment from the B. F. Goodrich Company. This equipment, for the production of asphalt and vinyl asbestos floor tile, is situated in the Watertown, Massachusetts, flooring division of Goodrich. Flintkote will now produce its own line of Flexachrome (R) vinyl-asbestos and Tile-Tex (R) asphalt-asbestos floor tile at Watertown, leasing the necessary plant space from Goodrich.

THE PHILIP CAREY MFG. CO. will exhibit its line of industrial insulation products at Booth No. 1467, at the Plant Engineering and Maintenance Show, Public Auditorium, Cleveland, Ohio, January 27-30, 1964. Featured prominently in the Carey exhibit will be Careytemp Prè-molded Elbow Insulation.

CANADIAN CHRYSOTILE ASBESTOS CLASSIFICATION, including description of method of testing on the Canadian Standard Testing Machine, January 9, 1961 edition, is available at 35¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.



PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

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Producers of Soft, Low Iron, White Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

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MARKET CONDITIONS

GENERAL BUSINESS.

As this is written the news of the assassination of President Kennedy has just reached us. The initial shock led to a chaotic condition which forced closing of all major stock and commodity exchanges in this country. While stocks suffered severe losses it is felt that a long week end will result in a more mature appraisal of the situation and there is no reason to feel that the fundamental economic situation has changed overnight. True, as always in cases like this, there is bound to be a period of uncertainty until President Johnson demonstrates the course he intends to follow in both domestic and foreign affairs. There will probably be no rapid changes in either personnel or policies for some time. However, since no two men think exactly alike, such changes are bound to come and, as they do, the business community will have to assess them individually and as part of an overall pattern which will develop. Basically the economy is in good shape and is expected to remain so for some time to come.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during October 1963, at 112,296 tons, exceed the same period last year by 3,715 tons or approximately 3%.

Year to date shipments at 928,004 tons are running 29,052 tons or 3% ahead of the same period 1962.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The momentum evident for the last several months continues to reflect itself in mill operations. Asbestos Textile plants are now operating at the highest rate with the strongest order position of the year. In the face of rising textiles wages, it appears evident that prices will be strengthened in order to recover these increased costs.

Asbestos Brake Lining. The volume of business for this product is higher than this time last year and should continue to increase during the coming months.

High Pressure Insulation. Demand for this product continues at a high level and prices remain firm. The outlook for the near future is favorable but will seasonally soften with the onset of winter weather.

Asbestos Cement Shingles—Roofing & Siding. This present market situation is slightly better than this time last year due to excellent weather conditions. The outlook for the coming months is good.

Asbestos-Cement Pipes. The asbestos-cement pipe market continues strong with manufacturers finding it difficult to meet shipping dates of consumers due to depleted inventories. Evidence of seasonal slow down is beginning to occur but this is expected at this time of the year. The outlook for the future is favorable and a good volume of sales is expected. However, weather is an important factor and demand could decrease if winter weather is severe.

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

ADVOCATE MINES' new asbestos mill at Baie Verte, Newfoundland, is presently operating on a test basis and daily tonnage is inclined to vary widely as variations to the flow sheet are tried out. However, the plant has been worked up to around 2,000 tons daily and should shortly reach its rated capacity of 5,000 tons per day. The $25-million project has been brought to production under the management of *Canadian Johns-Manville Company Limited.* An initial test shipment of asbestos fibre has been sent out to American asbestos-cement pipe plants and a second test shipment is expected to be soon on its way to European buyers.

Asbestos Magazine, 1963, December 1963
ACL Doc 12560 · Page 24 of 33
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PRODUCTION

CANADA

(Dominion Bureau of Statistics) — *Tons 2,000 lbs.*

Producer's Shipments in September 1963 (Quebec)	101,082
Ontario, British Columbia & Newfoundland	9,687
	110,769

Total shipments for September 1962 were 106,635 tons.

CYPRUS

(From Inspector of Mines) — 3rd Quarter 1963

	Production Short Tons	Exports Long Tons	Value
July	2,445	2,525	£150,524
August	3,041	354	18,998
September	2,355	1,277	78,334
	7,841	4,156	£247,856

REPUBLIC OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines)

Tons 2,000 lbs. — 3rd Quarter 1963

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	18,356	189	R 13,450	19,255	R1,862,651
Chrysotile	7,036	1,143	62,859	3,608	340,272
Cape Blue	20,546	868	96,432	20,055	2,726,870
Tvl Blue	2,781	155	18,510	1,851	227,732
Tremolite	..	27	1,135	..	..
	48,719	2,382	R192,386	44,769	R5,157,525

White Asbestos—Extensive deposits of white asbestos have recently been reported in the Marble Bar area in Australia by a representative of the COMET MINE. Production on a small scale may start later in the year. **S. Stubbs** is Operator of Comet Mine.

Canada's Asbestos Products Manufacturers—1960 (formerly The Asbestos Products Industry) has just been issued as Catalogue No. 44-203 (annual) by the Dominion Bureau of Statistics, Industry Division, Ottawa, Canada (price 50¢).

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census) — August 1963

Unmanufactured Asbestos:	Short Tons
From: Canada	55,826
Republic of South Africa	2,481
Rhodesia & Nyasaland	751
United Kingdom	280
Yugoslavia	2,801
Other Countries	11
Valued at: $5,392,733	62,150
By Grades:	
Crude, Blue, Republic of South Africa	201
Other Countries	10
Crude, Chrysotile, Yugoslavia	2,801
Rhodesia & Nyasaland	290
Crude, Amosite, Republic of South Africa	2,020
Rhodesia & Nyasaland	120
Textile Fiber, Canada	1,012
Other Countries	1
Other Fibers, Canada	54,814
United Kingdom	280
Republic of South Africa	260
Rhodesia & Nyasaland	341
	62,150

Manufactured Asbestos Goods:	Quantity lbs.)	Value
Asbestos Yarn, United Kingdom	21,255	$ 18,249
Other Countries	3,429	6,320
Asbestos Packing, Canada	250,576	45,078
United Kingdom	55,686	28,753
Other Countries	2,843	7,691
Asbestos Shingles (Imp.), Belgium	997,002	159,049
Other Countries	246,245	12,527
A-C Pipe & Fittings (Not Imp.), Mexico	1,611,460	132,328
Belgium	3,693,685	215,664
Italy	1,218,110	46,482
Israel	677,792	30,225
Japan	2,561,930	109,934
Other Countries	31,066	1,297
A-C Mfrs, Other (Not Imp.), Canada	111,837	17,645
Other Countries	150,981	6,504
Asbestos Manufactures—Other, France	..	36,231
Other Countries	..	1,777
	11,633,897	$875,754

Exports From U.S.A.

(Figures by Bureau of the Census) — July 1963

Unmanufactured Asbestos:	Short Tons	Value
To: Colombia	300	$ 13,272
India	26	3,396
Italy	35	7,000
Japan	742	63,215
Mexico	64	8,797
Switzerland	37	5,256
United Kingdom	20	1,880
West Germany	5	1,000
Other Countries	3	900
	1,232	$ 104,716

Manufactured Asbestos:	Production	Value
Asbestos Cement & Pipe Covering ..Lbs	1,011,869	$ 157,929
Asbestos Textiles & Yarn .....Lbs	70,840	83,545
Asbestos Packing .....Lbs	99,848	206,379
Asbestos Clutch Facing .....No	223,806	170,100
Asbestos Bk Lng (Mld & S.Mld) ..Lin Ft	124,417	62,115
Asbestos Brake Lining, Other .....Lbs	432,809	358,152
Asbestos Construction Material .....Lbs	1,593,689	226,589
Asbestos Manufactures—Other	..	73,220
		$1,338,029

August 1963

Unmanufactured Asbestos:	Short Tons	Value
To: Australia	10	$ 1,140
Canada	26	8,320
Japan	50	5,643
Mexico	24	7,048
Netherlands	63	4,834
United Kingdom	20	1,880
West Germany	25	1,610
Other Countries	13	2,214
	231	$ 32,689

Manufactured Asbestos:	Production	Value
Asbestos Cement & Pipe Covering ..Lbs	1,053,090	$ 184,792
Asbestos Textiles & Yarn .....Lbs	61,588	60,256
Asbestos Packing .....Lbs	131,185	191,838
Asbestos Clutch Facing .....No	174,067	149,072
Asbestos Bk Lng (Mld & S.Mld) ..Lin Ft	146,113	58,894
Asbestos Brake Lining, Other .....Lbs	796,123	425,243
Asbestos Construction Material .....Lbs	6,168,441	658,358
Asbestos Manufactures—Other	..	180,110
		$1,908,563

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Imports By United Kingdom

Raw Materials

Tons 2,240 lbs.	September 1963
From: Republic of South Africa	2,189
Basutoland, Bechuanaland & Swaziland	2,455
Rhodesia & Nyasaland	4,014
Canada	4,906
Other Commonwealth Countries & Irish Republic	197
Foreign Countries	70
	13,831

Asbestos Chapter—Preprint from 1962 Minerals Yearbook, published annually by the U. S. BUREAU OF MINES contains interesting information on the Asbestos Industry in 1962, including salient statistics of the Asbestos Industry in the United States, and a table of World Production of Asbestos (by countries) from 1953 to and including 1962.

This preprint may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., 20402 (price: 10c in coin per copy).

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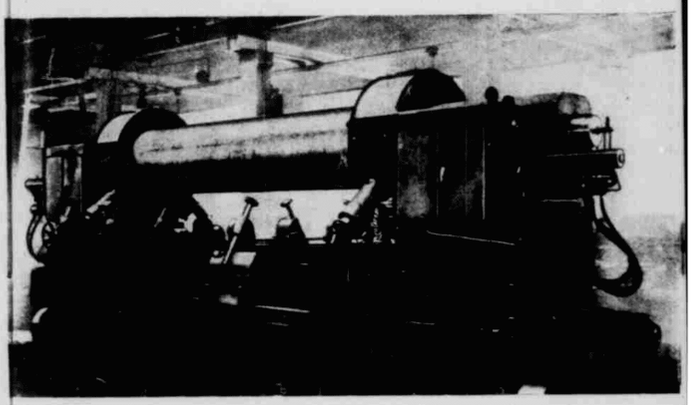
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Exports From Canada

(Published by Dominion Bureau of Statistics) — September 1963

Unmanufactured Asbestos:	Short Tons	Value
Crude		
United States	2	$ 3,404
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	3	3,021
Other Countries	5	5,080
	10	$ 11,505
Milled		
United States	14,189	$ 2,666,314
United Kingdom	2,669	502,822
South America	3,066	542,254
Central America & Mexico	1,455	254,155
European Countries	21,535	3,966,247
Other Countries	14,265	2,403,691
	57,179	$ 10,335,483
Shorts		
United States	38,142	$ 2,040,421
United Kingdom	3,837	199,056
South America	1,699	112,868
Central America & Mexico	26	2,236
European Counties	15,848	1,013,729
Other Countries	7,543	611,308
	67 095	$ 3,979,618
Grand Total— Unmanufactured Asbestos:	124,284	$14,326,606
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 39,414
Asbestos-Cement Building Materials		75,648
Asbestos-Cement Products, Other		49,447
		$ 164,509

Turner & Newall Limited are to be substantial stockholders in a new company which is to be formed to manufacture and sell Ferodo brake linings and clutch facings in Spain. The proposed company will be known as *FERODO ESPANOLA S.A.* A new factory, to be established in Madrid, is expected to be in production during the latter part of 1964.

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THETFORD MINES, QUE.

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INDUSTRY NEWS

HAPPY BIRTHDAY

H. F. Allen, Chairman, Bell's Asbestos and Engineering (Holdings) Limited, Slough, Bucks, England, December 18.
John A. Paulson, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, December 18.
George J. Pecaro, President & Chief Executive Officer, The Flintkote Company, New York City, December 20.
Harry C. Redstone, Vice-President & Secretary, Asbestos Distributors, Inc., Port Chester, New York, December 20.
Edwin E. Hokin, President, Unarco Industries, Inc., Chicago, Illinois, December 21.
Robert L. Clark, Treasurer & Chairman, The Clark Asbestos Company, Cleveland, Ohio, December 22.
Al Kevelson, Ace Asbestos Manufacturing Company, Jersey City, New Jersey, December 24.
Joseph J. Kelly, Secretary-Treasurer, Western Asbestos Company, San Francisco, California, December 25.
J. C. McKendry, Jr., Vice President, Niagara Asbestos Company, Buffalo, New York, December 27.
Arthur H. Velleman, President, Ovimpex, Inc., New York City, December 28.
M. J. Warnock, President, Armstrong Cork Company, Lancaster, Pennsylvania, December 28.
Fred A. Mett, President, Powhatan Mining Corporation, Baltimore, Maryland, December 29.
Philip S. Nash, Vice President, Unarco Industries, Inc., Chicago, Illinois, December 31.
W. W. Hildinger, Vice President—Marketing, National Gypsum Company, Buffalo, New York, January 1.
Robert G. Beldam, Chairman & Managing Director, Beldam Asbestos Company Limited, Houslow, England, January 3.
Stephen Derek Hungerford Pollen, Deputy Chairman, The Cape Asbestos Company Limited, London, England, January 4.
William L. Keady, Director, Fibreboard Paper Products Corporation, San Francisco, California, January 5.
Rupert St. George Riley, Director, The Cape Asbestos Company Limited, London, England, January 6.
James B. Anchors, Founder, Insulation and Acoustical Specialties, Inc., Kansas City, Missouri, January 7.
M. E. McCrosson, Vice President—Textile Division, The Russell Manufacturing Company, Middletown, Connecticut, January 7.
Reuben H. Chase, Director & Vice President, Kohler & Chase, San Francisco, California, January 11.

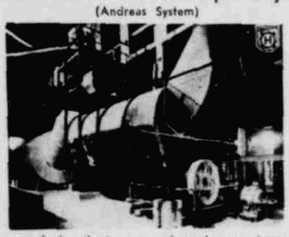
To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

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75 Beverly Street, Galt, Ontario
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333 Oliver Building, Pittsburgh 22, Pennsylvania
Australia: Noyes Bros. Pty. Ltd.
P.O.B. 1587, G.P.O. Sydney
South Africa: Industrial Machinery Supplies Pty. Ltd.
P.O.B. 9653, Johannesburg

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CURRENT RANGE OF PRICE

As of December 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	500.00
Group No. 4 (Plastic & Filtering)	*385.00 to*	*420.00*
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
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)	*550.00 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)	..	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT— Per ton of 2,000 lbs. f.o.b. Mine (U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	*181.00 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.
(As of January 1, 1964) Canadian Currency

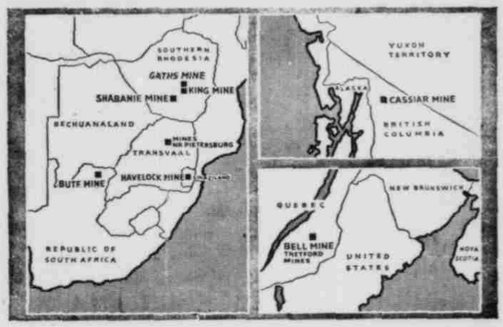
AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00

William J. Yahn has been named Sales Engineer for ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. He will be in charge of Flintite asbestos-cement pressure and sewer pipe in the company's eastern Pennsylvania and southern New Jersey area.

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ASBESTOS STOCK QUOTATIONS

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

		November 1963		
	Par	Low	High	Last
Advocate Mines Ltd	1	$6.85	$7.25	$6.90
American Brake Shoe	np	49½	51⅝	50⅞
Asarco	np	81¾	87⅜	82¾
Armstrong Cork (Com)	1	98½	103¾	100½
Armstrong Cork (Pfd)	np	88	92	89½
Asbestos Corporation	np	20½	24¼	21
Philip Carey	10	23⅝	24⅜	24
Cassiar Asbestos Corporation	np	10	11½	10⅜
Certain-teed	1	14	16¼	14⅞
Fibreboard	np	31½	34⅝	32¾
Flintkote (Com)	5	19⅞	23⅜	22¾
Flintkote (Pfd)	np	87½	90	90
Jefferson Lake Asbestos	1	3¾	4¼	4
Johns-Manville	5	46	48⅞	47
National Gypsum (Com)	1	46⅛	48⅛	46¼
National Gypsum (Pfd)	np	99	103½	99
Porter, H. K.	100	99¾	101	100¾
Raybestos-Manhattan	np	39⅝	41	40¼
Ruberoid	1	25⅝	26⅞	26¾
Seagrave	2½	8½	10	9
Unarco Industries	5	12⅜	16	13⅛
United Asbestos	1	$2.15	$3.15	$2.35
U. S. Rubber (Com)	5	41½	47¾	45½
U. S. Rubber (Pfd)	100	166¼	174¾	168½

Henry L. Sinard has been named Sales Engineer in charge of *Flintite* asbestos-cement pressure pipe, gravity sewer pipe, building sewer pipe and irrigation pipe in the Michigan sales district of ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. He has previously been sales engineer for the Metal Products Division of Armco Steel; sanitary engineer for United States Atomic Research at the White Sands Proving Grounds in New Mexico; and, civil engineer and structural designer for the National Advisory Committee for Aeronautics in Cleveland, Ohio.

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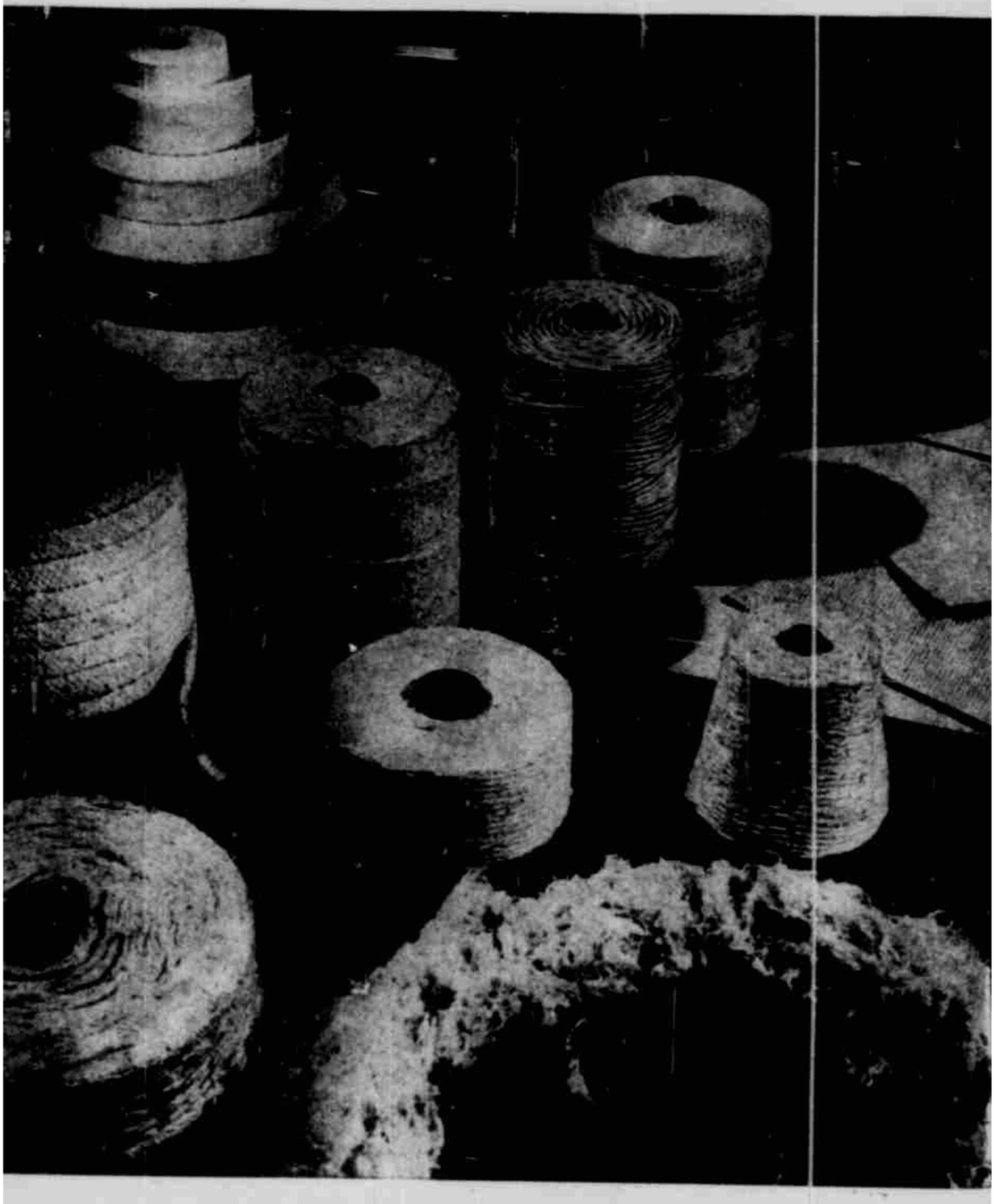


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