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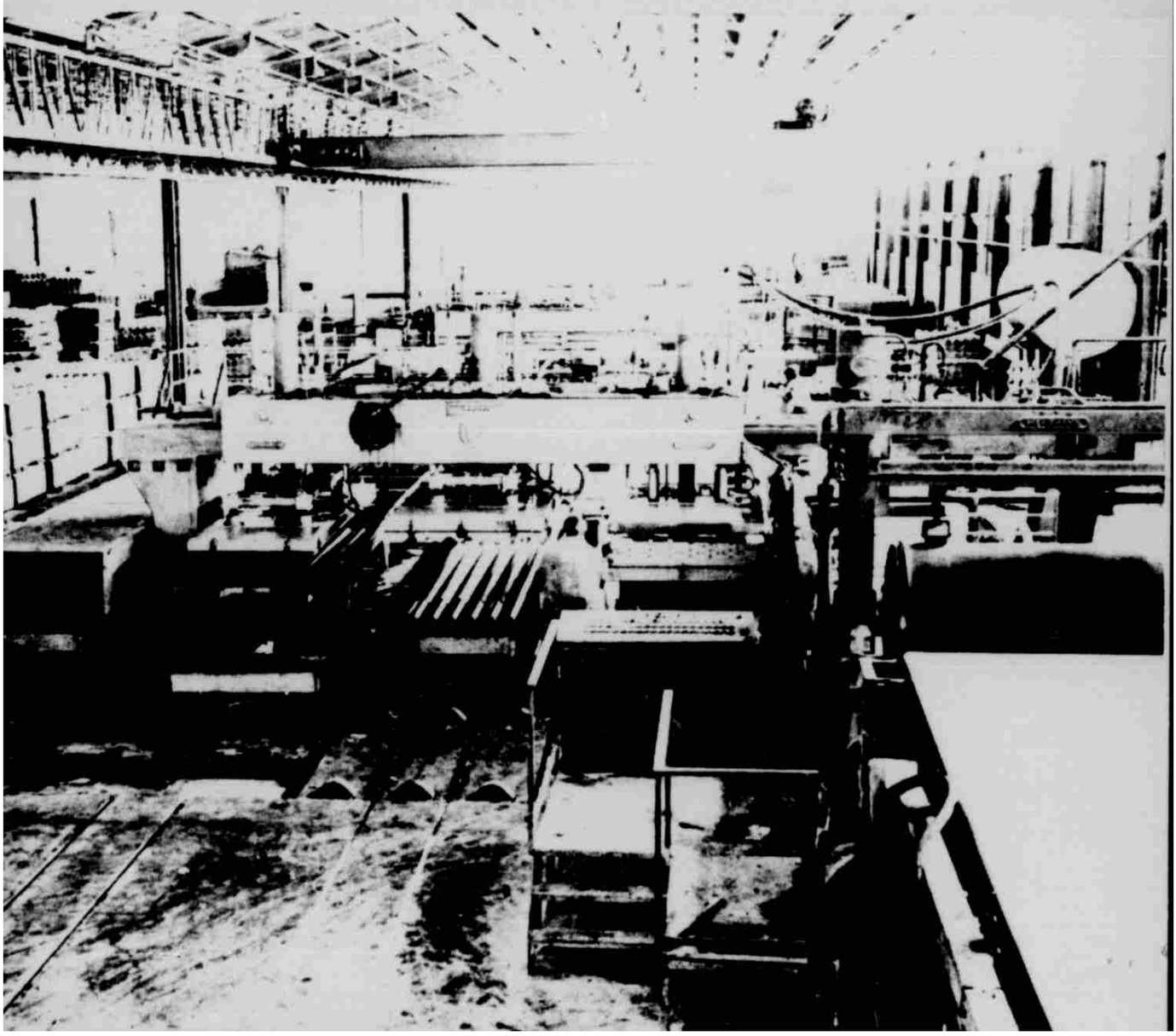
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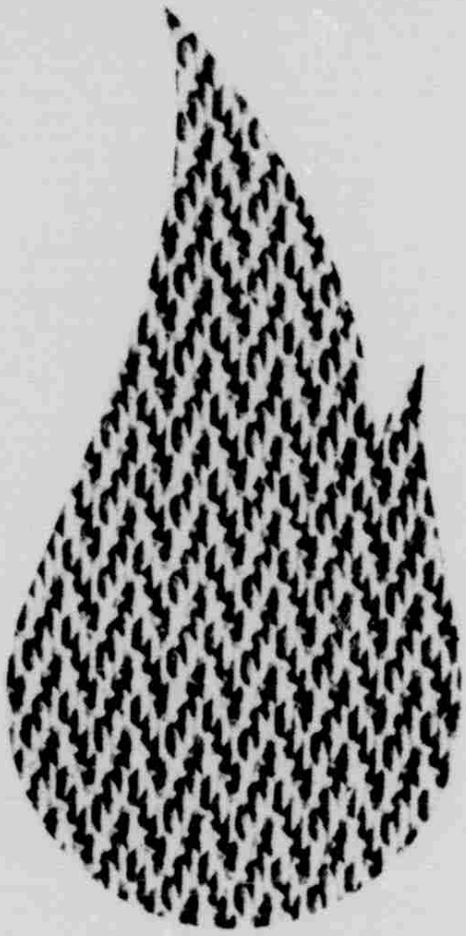
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THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES

By: John A. Bettes, Jr.

As edited by the Staff of ASBESTOS

Chapter XXVI: Highlights in the History of the Asbestos Textile Institute

PART 2

The Fiber Evaluation Committee was established at the ATI conference held June 5, 1958. Clyde R. Hutchcroft, of K&M, was elected first Chairman. In June 1962, under the direction of Clyde Hutchcroft, the Committee published 3400 copies of an authoritative 169-page manual entitled "Testing Procedures for Chrysotile Asbestos Fiber." An up-dated 236-page revision was printed in 1966 under the direction of Chairman Irvin Barnett, Johns-Manville Corporation. The manuals were issued under the joint sponsorship of ATI, QAMA and the Asbestos Cement Products Association (ACPA).

By December 1958, the supply of the first edition of the "Handbook of Asbestos Textiles" had been depleted and it was voted to produce a revised second edition. Howard Bain was engaged to undertake the assignment. He had recently retired as Industrial Advertising Manager for Johns-Manville Corporation. Again, a great many members of the industry contributed to the project. George J. Harris, of Southern Asbestos Co., was especially helpful to Howard Bain. In September 1961, 15,000 copies of the 100-page second edition were distributed. The third and current edition was printed in January 1967.

By June 1963, Dr. Shaw had concluded all of the projects he could profitably undertake with the facilities available to him at the Philadelphia College of Textiles and Science. The ATI Board of Governors, therefore, reluctantly decided to conclude the Fellowship.

During an association of more than sixteen years, Dr. Shaw had made many accomplishments that advanced the status of the asbestos textile industry and its trade association, the Asbestos Textile Institute. In his capacity as Research Fellow, Dr. Shaw produced sixty technical reports

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which did much to enhance the prestige of ATI. A good deal of the valuable technical data has been included in the several editions of the "Handbook of Asbestos Textiles."

Dr. Shaw also did an excellent job of representing the industry in its necessary contacts with Federal governmental departments. For example, he assisted in the writing, and in subsequently revising, of the asbestos cloth specifications published by the Bureau of Ships, U.S. Department of the Navy. In his capacity as Executive Secretary of ATI, he arranged for quarterly conferences and made all of the necessary hotel reservations. His businesslike methods did much to promote the success of a long series of industry conferences. The premature death of Dr. Myril Clement Shaw on November 12, 1965, was mourned by all members of the industry.

Herbert E. Sunbury retired March 30, 1962, as Sales Development Manager-Asbestos Textiles for U.S. Rubber (now Uniroyal). In July 1963, he was prevailed upon to accept the position of Executive Secretary and Assistant Treasurer of ATI and has to this day carried out the duties of these offices with distinction. The headquarters of the Asbestos Textile Institute were moved in 1963 to the present location: 75 Center Street, Pompton Lakes, New Jersey.

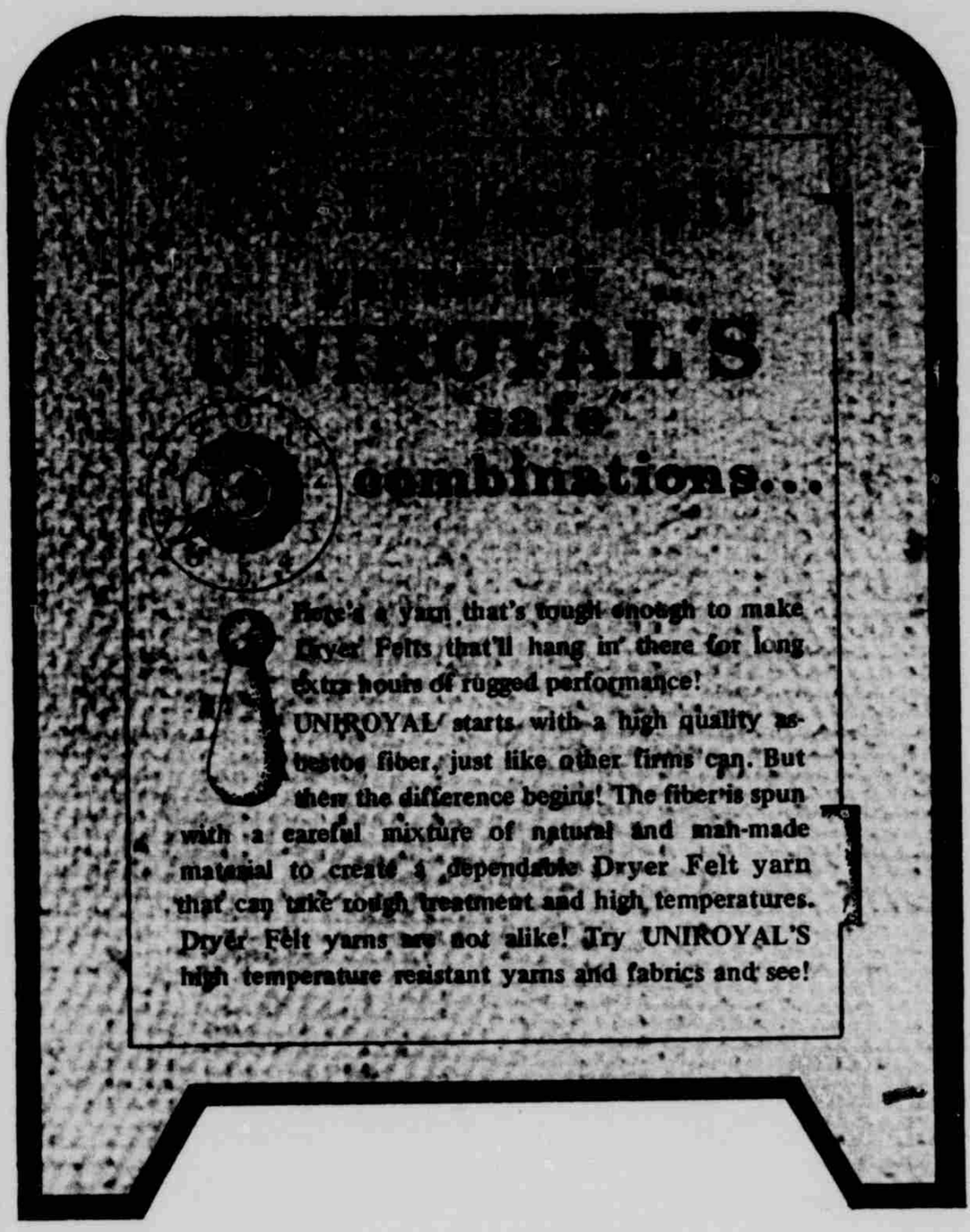
On February 6, 1964, the Air Hygiene & Manufacturing Committee, chaired by L. C. Williams, of Raybestos-Manhattan, Inc., issued a fifteen-page pamphlet titled "Method for Determining Asbestos Dust Concentration." The literature described the best available testing techniques of the then-current state-of-the-art.

The October 1964 conference was a festive affair, held at the Barbizon-Plaza Hotel in New York City, and marked the 20th Anniversary of the Asbestos Textile Institute.

At the February 1965 conference, Dr. L. J. Cralley of the U.S. Public Health Service (USPHS) reported on his findings from a survey of working conditions at various asbestos textile plants. He expressed his appreciation for the fine cooperation afforded him by Management, Employees and Unions. This was the beginning of the Federal Government's concern with possible health hazards at plants that are engaged in the manufacture of all asbestos-based products.

Dr. J. W. Axelson, of Johns-Manville, presented a technical paper on the "Testing of Asbestos Fibers—Discrete and Bulk Properties" at the conference held in October 1965. At

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this same meeting, ATI Technical Committee Chairman J. D. McCluer began the task of up-dating all of the American Society for Testing and Materials (ASTM) specifications for asbestos textiles. This was done in cooperation with ASTM Committee D-13, Sub-Committee A-4 (see June 1972 ASBESTOS, page 6).

At the February 1966 conference, Joseph P. Wronski (Raybestos-Manhattan) presented a technical paper on "The Role of Fibers and Whiskers in Reinforcement." This excellent paper was reprinted in the August and September 1968 issues of ASBESTOS.

"The Use of Asbestos Textiles in Industrial Products" was the informative paper presented by G. Ellwood Houghton of Garlock Inc. at the conference held February 10, 1967.

The June 1967 conference was held in Montreal, Quebec, to afford the membership an opportunity to attend "Expo '67"—an international World's Fair. It was at this meeting that the purchase of Bausch & Lomb dust counting equipment was authorized at a cost of $5000. The equipment was to be used to monitor dust counts in plants of member companies.

On October 5, 1967, Hilados y Tejidos de Asbesto, S.A., Mexico, became an associate member of ATI.

The highlight of the February 1968 conference was the presentation of an outstanding paper by Paul O. Nicodemus, of General Electric Company, titled "Asbestos Textile Electrical Insulations—Properties, Present and Future Importance" [reprinted in ASBESTOS in the April, May and June 1968 issues].

On June 6, 1968, Dr. L. J. Cralley (USPHS) reported on the status of his "In-Plant Health Study." He also discussed his paper concerned with the "Characteristics and Solubility of Metals Associated with Asbestos Fibers." Also at the June 1968 meeting, Dr. G. R. Cuthbertson, Technical Director, Uniroyal Fiber & Textile Division, gave an informative lecture on "The Acceleration of Textile Technology."

An Asbestos Health Seminar was sponsored by ATI on October 2, 1968. Clifford L. Sheckler, Chairman of the ATI Environmental Health Committee was in charge of the well-attended, three-hour program held at Hotel Hershey, Hershey, Pennsylvania. Also in October, the ATI Board of Gov-

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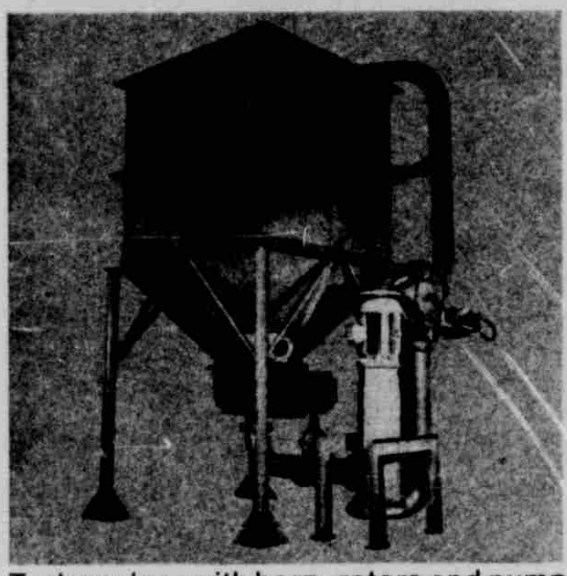
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ernors approved the recommendation of the Air Hygiene & Manufacturing Committee that all member companies adopt the wet weaving process to minimize the hazard of dust at their operations. Guest of honor at the October 1968 general meeting was Miss Edith E. Cox, Editor of ASBESTOS for many years, and recently retired.

The application of Nicolet Industries, Inc., for regular membership in ATI was approved at the June 1969 conference. Edward W. Fisher, of Garlock, presented a paper on "The Use of Asbestos Textiles in the Packing Industry" at this conference.

On June 19, 1969, the Environmental Health Committee urged all members to develop dust-free asbestos fabrics, to avoid the loss of U.S. Navy business.

On February 5, 1970, the Board of Governors approved the application for associate membership in ATI of two asbestos textile manufacturers: Nippon Asbestos Co., Tokyo, Japan; and Asbestos Textil, S.A., Mexico.

Brought up for discussion at the June 1970 conference was "The Threshold Limit Value for Airborne Asbestos Dust" and related labeling requirements, proposed by the American Conference of Governmental Industrial Hygienists (ACGIH). These proposed stringent regulations posed a most serious threat to the entire industry.

In April 1971, the Air Hygiene & Manufacturing Committee, under the Chairmanship of H. M. Willingham, Uniroyal, Inc., issued a sixteen-page instructional pamphlet titled "Measurement of Airborne Asbestos Fiber by the Membrane Filter Method."

On June 9, 1971, the ATI Board of Governors approved the application for associate membership of Manufacturas Multiples, S.A., an asbestos textile manufacturer in Caracas, Venezuela. Also at this conference was the announcement by Milton Q. Scowcroft, Chairman of the ATI Asbestos Advisory Committee, of the availability of 25,000 instructional booklets concerned with the "Recommended Health Safety Practices for Handling and Fabricating Asbestos Textile Products." The new literature is available, without charge, from any member company or from ATI headquarters.

Wendell B. Alcorn, Legal Counsel, gave a comprehensive review, on February 3, 1972, of developments under the Williams-Steiger Occupational Safety & Health Act (OSHA)

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which became effective April 28, 1971.

On March 14, 1972, ATI sent Alexander Kuzmuk (a member of its Board of Governors) to Washington, D.C., to attend the scheduled Public Hearing and present testimony before Arthur M. Goldberg, Hearing Examiner, U.S. Department of Labor, stating the objections of ATI members of the asbestos textile industry to the proposed asbestos dust standards as published in the Federal Registers of December 7, 1971, and January 12, 1972. He also expressed objections to the recommendations proposed by the National Institute for Occupational Safety & Health (NIOSH) in its criteria package, and by the U.S. Government's Asbestos Advisory Committee.

In this chapter, due recognition must be given to the ATI Fiber Committee which consists of representatives of each of the principal Canadian asbestos mines. At each ATI conference, a senior officer of a mine gives the members an up-to-date report on the demand and supply situation for the various grades of asbestos spinning fiber. The reports generally cover not only the United States and Canada but also the other major markets throughout the world.

As the reader will readily recognize, it is the standing committees of ATI that carry forward the sundry activities of the Institute. A complete history of ATI would list all the committee chairman and their years of service. In view of space limitations, it is practical to list only those who have occupied the most demanding post, that of president. Those men, and their company affiliations at the time, who have served as President of the Asbestos Textile Institute are listed as follows:

1945 & 1946—Clarence H. Carlough, Carolina Asbestos Co.
1947 & 1948—George W. Marshall, Jr., Raybestos-Manhattan, Inc.
1949 & 1950—George S. Fabel, Southern Asbestos Co.
1951 & 1952—Robert E. Cryor, Union Asbestos & Rubber Co.
1953 & 1954—D. Weber Widmayer, Keasbey & Mattison Co.
1955 & 1956—Francis J. Wakem, Johns-Manville Corporation
1957 & 1958—John A. Bettes, Jr., Raybestos-Manhattan, Inc.
1959 & 1960—Jesse T. Griffiis, Southern Asbestos Co.
1961 & 1962—William S. Hough, Johns-Manville Corporation
1963 & 1964—Staton J. Peele, Jr., U.S. Rubber Co.
1965 & 1966—John A. Brown, Jr., Raybestos-Manhattan, Inc.
1967 & 1968—John L. Rainey, American Asbestos Textile Corp.
1969 & 1970—Edward A. Schuman, Johns-Manville Corporation
1971 & 1972—Lawrence E. Moody, H. K. Porter Co., Inc.

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Every industry of any size needs a trade association to provide a common meeting ground and to promote the welfare of the industry. The Asbestos Textile Institute has faithfully served the best interests of its member companies for twenty-seven years. Hopefully the next decade will record even greater levels of accomplishment.

Conclusion

This twenty-sixth chapter of "The History of the Asbestos Textile Industry in the United States" concludes the series. Obviously it has been impossible to give due recognition to each and every individual who, somewhere along the line, has made a substantial contribution to the growth and prosperity of the industry.

However, with the willing and able assistance of Herbert E. Sunbury and with complete freedom of access to the storehouse of information in the files of ASBESTOS, this chronicle has been made as complete and factual as possible insofar as major events and outstanding individuals are concerned.

It is hoped this record of past accomplishments will encourage younger men to lift the industry to an even greater state of usefulness.

The writer's thanks go to ASBESTOS for having undertaken the publication of this "History."

John A. Patten Jr.

Your Attention, Please!

We are considering reprinting, in booklet form, the entire "History of the Asbestos Textile Industry in the United States" as it has been appearing monthly in ASBESTOS since the August 1970 issue. The booklet would be the same size as ASBESTOS and would run about 100 pages. Price per reprint would be dependent upon the size of the run but would not exceed $2.95 per copy—a modest sum for what we believe is the only written account of the history of the U.S. asbestos textile industry . . . Are you interested? If so, please let us know how many copies you would like. If the number of advance orders is sufficient and you contact us **now**, we will proceed and the reprints could be available for distribution by or before November of this year.

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About The Author

John A. Bettes. Jr.

WRITER OF "THE HISTORY OF THE ASBESTOS TEXTILE INDUSTRY IN THE UNITED STATES"

John A. Bettes, Jr., was born July 7, 1904, in Bayonne, New Jersey. Following graduation from the Philadelphia Textile Institute in 1926, he joined his father's hardware jobbing firm of Bettes & Ebsen. He began his asbestos textile career in 1929 when he became a salesman for Southern Asbestos Company. In 1939 he joined Raybestos-Manhattan, Inc., as Sales Manager of Asbestos Textiles. During World War II, under War Production Board supervision, he was instrumental in directing the facilities of R/M in providing a major portion of the unprecedented large tonnages of asbestos insulation used as component parts of shipboard cable in the naval construction program. In 1940 he collaborated with Jesse M. Weaver to publish what was at the time the most comprehensive catalog of asbestos textile products ever published. When the Industrial Sales Division was separated into two divisions in 1952, Jack Bettes was named Sales Manager of the Asbestos Textile Division. He became Manager in 1955.

He served as President of the Asbestos Textile Institute in 1957 and 1958 and ably directed one of ATI's most memorable occasions, its 20th Anniversary celebration held during the October 1964 conference. The Certificate of Appreciation, which is the highest commendation awarded by ATI, was presented to Jack Bettes in 1966 for "his many years of devoted and distinguished service to the asbestos textile industry . . ." In 1971, ATI recognized his untiring efforts in compiling and writing the "History" by naming him "Official Historian of the Asbestos Textile Industry, USA."

A dedicated company man and loyal to those who worked for him, Jack Bettes has gained the respect of competitor and business associate alike. Ill health forced an early retirement on July 10, 1966, and he now resides with his wife at Delray Beach, Florida. He keeps busy with bridge, golf and bowling but still maintains an active interest in R/M, ATI and the asbestos industry as a whole.

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SMITH & BATEMAN

RECEIVE "ASBESTOS STORY" RINGS

R. M. Bateman and F. Parker Smith were presented with highly-prized "Asbestos Story" Rings during a reception and dinner held recently in their honor. There were 41 in attendance at the presentation ceremony in Montreal, representing over 1145 years of service to the Asbestos Industry.

Mr. Bateman, who received Ring No. 16 from C. B. Brown, is Chairman of Turner & Newall Ltd., Manchester, England. He entered the Asbestos Industry when he joined Turner & Newall in 1931. From 1942 onwards he has held Directorships in many T&N subsidiary and associated companies. He was appointed to the T&N Board in 1957, was named Deputy Chairman in 1959 and became Chairman in 1967. He also is a Director of Certain-teed Products Corporation and of Cassiar Asbestos Corporation Ltd.

F. Parker Smith, Vice-Chairman of the Board of Bell Asbestos Mines Ltd., was presented with Ring No. 17 by A. L. Penhale. Mr. Smith joined Bell Asbestos as a trainee in 1925, was placed in charge of sales and purchasing in 1936 and assumed the additional office of Secretary in 1941. He was appointed a Director in 1952, Executive Vice President in 1964 and served as President and Managing Director from 1966 until July of this year when he became Vice-Chairman.

A PHOTOGRAPH OF THE RING APPEARS ON THE FRONT COVER OF THE JANUARY 1972 ISSUE OF "ASBESTOS" AND A DESCRIPTION IS GIVEN IN THE SAME ISSUE ON PAGES 22 AND 23.

THE COVER

Fully-automated asbestos-cement sheet production lines with a remote-controlled transport system for pre-curing the sheet in a hardening tunnel are gaining wide acceptance in countries that have a shortage of labor. This issue's front cover photograph shows a typical section of a plant utilizing the WEHRHAHN corrugating system that allows exact sizing and exceptionally smooth corrugation. In the background can be seen a closed cycle for the transport carriages with hydraulic pistons, sliding platforms and a rail system that travels through the curing tunnel to the destacking machine.

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RETIREMENTS AT BELL ASBESTOS

C. B. BROWN & G. W. SMITH

Bell Asbestos Mines Ltd., Thetford Mines, Quebec, announced the retirements of two of its Directors, effective July 27, 1972: C. B. Brown, C. A., and Lt. Col. George W. Smith.

Mr. Brown was born in Belfast, Ireland, in 1892, received his education at the Royal Belfast Academical Institution and served in the Royal Tank Corps of the British Army during World War I. He had been a Director of Atlas Asbestos Company since 1934 and of Bell Asbestos Mines since 1936. In 1957, upon retiring from a partnership in the international auditing firm of Peat, Marwick, Mitchell & Co., he joined the Turner & Newall Organization as Secretary of its Holding Company in Canada, Turner & Newall (Overseas) Ltd. He was President of T&N (Overseas) from 1959 until it ceased operations in 1972. For many years Mr. Brown was a Director and Vice President of The Mercantile Bank of Canada and a Director of Cassiar Asbestos Corporation Ltd.

Mr. Smith, son of The Late Honorable and Mrs. George R. Smith, was born February 22, 1898, in Thetford Mines. He attended Westmount Academy and Bishop College School and served in WWI with the Canadian Motor Machine Gun Corps. In WW II he commanded the 3rd Batallion, Royal Canadian Army. He joined Bell Asbestos in 1920 as Mine Superintendent, was appointed a Director of the company in 1935 and was named President in 1950. He retired as President in 1966. Mr. Smith was active in the Canadian Institute of Mining & Metallurgy, having served terms as a Vice President, Counsellor and Chairman of the Executive Committee of the Council. He was awarded the Institute Medal for Distinguished Service in 1966.

Various members of The Smith Family have been employed in top executive positions through the years, beginning with The Late Hon. G. R. Smith who was Chief Executive and General Manager of the Bell Mine from 1892 until his death in 1922. Among those currently active in the affairs of the company are F. Parker Smith, Vice-Chairman of the Board, and William J. W. Smith, Director and Vice President in charge of Sales.

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ROBALIT SUCTION BOX TOPS

Robalit 61 Suction Box Tops for asbestos cement machines are described in a new brochure issued by the manufacturer, Leripa, Leder- und Riemen-Patentverwertungsges.-m.b.H., Maria-hilferstraBe 135, A-1151 Vienna, Austria. The literature gives references, details the results obtained from actual operation and lists optimum perforation patterns. Copies of Brochure AZ-B-1, available in five different language editions, are obtainable by writing directly to Leripa. Ask for E/170 in English, /170 in German, S/170 in Spanish, F/170 in French or I/170 in Italian. [Leripa's U.S. Agent is Minerals & Asbestos Corporation, P. O. Box 1206, Port Chester, New York 10573.]

ASBESTOS ACRYLIC GASKET MATERIALS

Rogers Corporation, Rogers, Connecticut, has developed two new families of asbestos-acrylic gasket materials called GP/duroids. There are six new materials in all, evenly divided between the top performance 3600 line and the more economical 3700 line. Available in rolls or sheets, each beater-processing gasket material is a homogeneous blend of asbestos fibers and a specially compounded acrylic binder that will withstand, without embrittlement, continuous exposure at 300°F to 350°F. Compared with compressed asbestos materials, GP/duroids are said to offer better temperature resistance, equal or better torque retention, fluid resistance superior to all but higher-priced asbestos sheets, greater uniformity and lower price.

REFLECTION METERS

Model CG-166 has been added to the series of Reflection Meters manufactured by CRIterion Instruments Ltd., Don Mills, Ontario. Available in a laboratory styling or in an industrial format for continuous inspection, differences in color barely discernible to the human eye can be spread over 1000 scale divisions. The readout is a 3½ digit DPM that easily adjusts for reading either in direct percentage reflectance to the nearest 0.1% or in arbitrary figures with a true linear relationship. According to the manufacturer, one of the search head units is widely used for specification testing of asbestos-cement, asbestos tiles and similar products.

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How Gold Bond keeps track of asbestos grades for 3,200 end uses.

Gold Bond processes asbestos for the darndest things. Products like armored cars, artificial snow, cartridges, filing cases, frying pan handles, spark plugs and yarn.

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It controls five floors of automated milling equipment. Closed circuit TV helps monitor the complex maze of milling circuits throughout the huge facility.

Whatever your asbestos needs, check first with National Asbestos Mines, Thetford Mines, P. Q., Canada. Or write to National Gypsum Company, Buffalo, New York 14202.

Gold Bond
ASBESTOS FIBRES

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C. L. SHECKLER, MANAGEMENT CONSULTANT

Following retirement July 1, 1972, from Johns-Manville Corporation as Manager for Accident Prevention and Health Administration, Clifford L. Sheckler has established a management consulting practice specifically concerned with safety and health, environmental control and workmen's compensation. Since September 1st he has been under contract to Johns-Manville and to the National Insulation Contractors Association and will be working on health studies of several substances including asbestos, fibrous glass, perlite, silica and talc. Mr. Sheckler maintains his office at his home in Metedeconk, New Jersey.

WILLSON PRODUCTS SERVICES

A comprehensive compliance discussion outline and companion slide presentation of the Occupational Safety & Health Act of 1970 for personal protective equipment is available from Willson Products Division, ESB Inc., Reading, Pennsylvania. The discussion concentrates on the four major areas of personal protection: eyes, respiratory, head and hearing. . . . Willson also introduced the first complete noise evaluation program that provides U.S. Bureau of Mines' approvals for personal noise monitors, noise level survey equipment and personal exposure read-out instrumentation. The "Sound Consultant System" provides a fully-integrated monitoring, inspection, survey and recording program designed to help employers comply with the stringent OSHA '70 requirements.

C-E BAUER OZONE GENERATORS

OzoneAir™ ozone generators for odor control, water treatment and purification have been introduced by The Bauer Bros. Co., a subsidiary of Combustion Engineering, Inc. Ozone destroys disease-carrying germs and odors while improving the taste of water. Descriptive brochures are available from C-E Bauer at Springfield, Ohio, or Brantford, Ontario.

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MATERIALS HANDLING LITERATURE

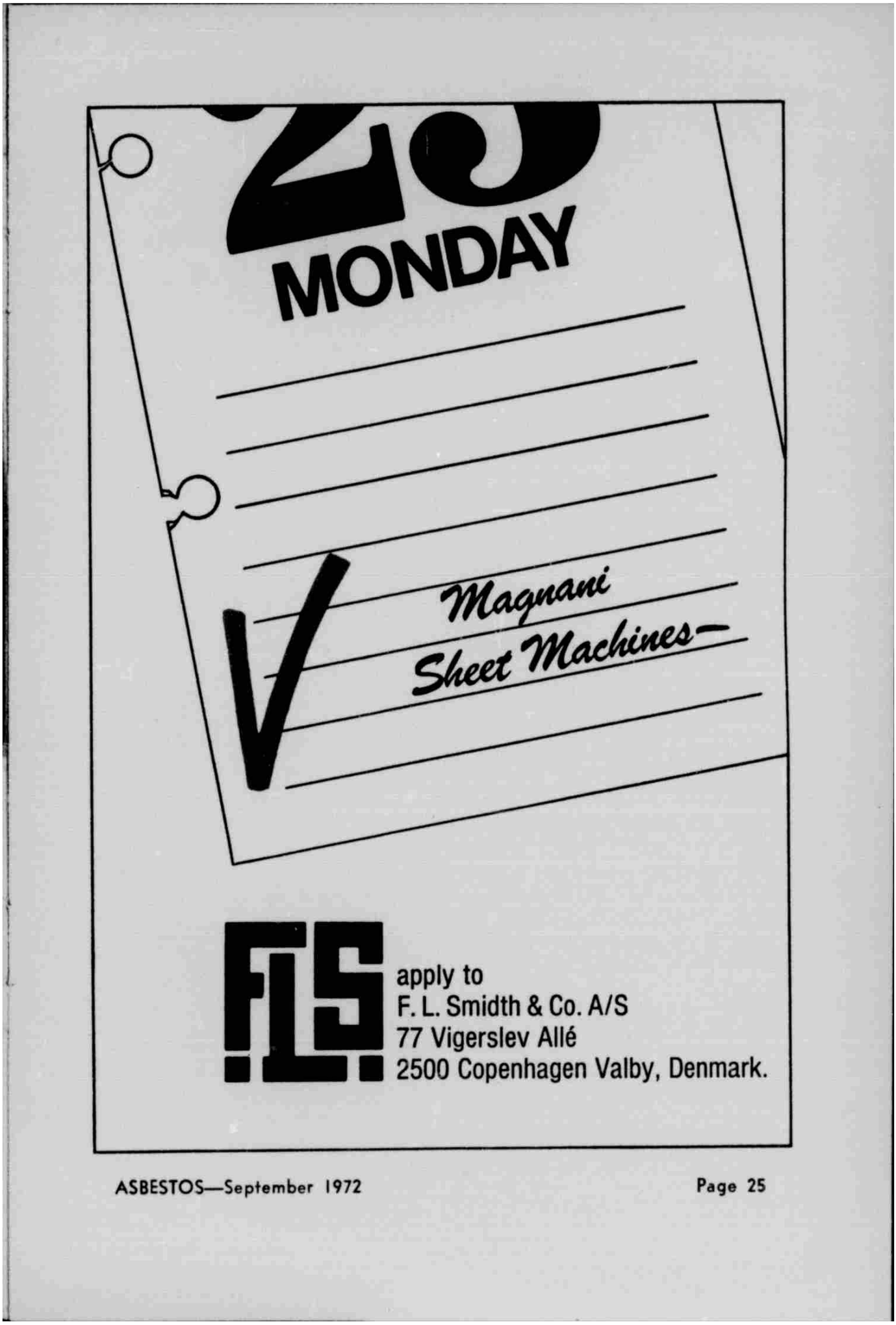
Vibra Screw, Inc., Totowa, New Jersey, recently released Technical Bulletin T-106 to assist processors faced with the problems of unloading flow-resistant materials from portable bins. The bulletin describes how unloading stations employ the Vibra Screw Gyrator to convert any portable bin into a live bin during the discharge cycle. . . . Bulletin T-108 explains how the installation of vibrating Vibra Screw Bin Activators in discharge holes improves the release of bulk materials stored in outdoor piles. . . . As illustrated in Bulletin T-110, the use of a new concept has eliminated flow stoppages when discharging bulk materials such as asbestos from self-unloading barges.

ANALYSIS/TESTING/MEASUREMENT

Atomic absorption spectroscopy in the analysis of cement is among the uses cited in an applications folder from *Corning Scientific Instruments, Corning Glass Works*, Medfield, Massachusetts. Folder AAS-1 discusses applications of Model 240 for assessing product quality or for maintenance-oriented monitoring. . . . *Dynatech Corporation*, Cambridge, Massachusetts, expanded its Measurements Laboratory capabilities with the addition of high-speed mechanical properties testing equipment. The equipment measures tensile and compressive properties under constant and cyclic closed loop loading at loading rates from one inch to 10,000 inches per minute. . . . The ANALYT 10 was introduced by *GEOScience Instruments Corporation*, Mount Vernon, New York, as an automatic riffler that provides reproducible samples for grain-size determinations. The splitter is said to eliminate loss of fines, contamination, bridge formation and poor flow behavior . . . . *Forté Engineering, Division of Kingsbury Technology, Inc.*, Natick, Massachusetts, published MODULIT, a new system of technical literature that discusses electronic moisture measurement principles and illustrates Forté Moisture Content Measurement Systems.

Next Issue – The Geology & Mining Operations at Pacific Asbestos Corporation

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MARKET CONDITIONS

GENERAL BUSINESS

General business continues to improve at a steady but rather slow pace. Despite substantial increases in corporate earnings, dividends are not keeping pace and this has a tempering effect on stock prices. Many companies are using increased earnings to improve their liquidity and others are hesitant about increasing dividends in view of the Administration's avowed fear that such increases would impede the battle against inflation. There are indications that inflation is finally coming under control even though productivity is not increasing as rapidly as had been predicted. Several large banks have increased their prime interest rate to 5½ percent and some authorities are predicting a six percent rate by the end of this year. There is some concern that rising rates may result in a shortage of mortgage money with consequent adverse effects on the healthy construction industry. However, the liquid position of many large corporations may reduce their needs for heavy borrowings to a point where plenty of mortgage money will continue to be available.

As this is written, the Republican Party has nominated Richard Nixon for President and Spiro Agnew for Vice President and the Presidential campaign will soon be in full swing. At the moment the odds seem to favor the Nixon-Agnew team and Senator McGovern, whose campaign has already started, has met with some rather cool receptions in his appearances before certain groups such as the Veterans of Foreign Wars. However, it will be some time before a strong trend toward either party's candidates will become evident and it is possible the contest will develop in such a way that it will go right down to the wire before the winners will be known.

ASBESTOS welcomes the following new advertisers:

James Kenyon & Son Ltd. (page 51)
Welsh Manufacturing Co. (page 41)

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OUR 25TH YEAR

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CONSTRUCTION NEWS

JULY 1972—A total of $8,066,538,000 of new construction work of all kinds was contracted during July, 6% more than in the same month of last year. The seasonally-adjusted Dodge Index, at 155, was little changed from 154 in June.

Nonresidential building contracts totaled $2,461,466,000 in July, 5% below the value of contracts in the previous July. Industrial and commercial building made solid gains but a drop was recorded in the volume of contracting for schools, hospitals and public buildings.

Residential contract value, at $3,863,625,000, was 16% in excess of the contract value for the comparable month of 1971. For the first time this year, the number of new apartment units contracted was less than in the comparable 1971 month.

Nonbuilding construction contracts showed a 3% gain and totaled $1,741,447,000. This category received its lift from nearly a billion dollars of new highway work, 18% more than was contracted during July 1971. Sewer and water facilities, although down sharply in July, still showed a 44% year-to-date lead over the same month in 1971.

Cumulative construction contract value for the first seven months of 1972 totaled $52,686,492,000: Nonresidential, $15,616,361,000, up 3%; Residential, $25,559,891,000, up 32%; Nonbuilding, $11,510,240,000, down 5%. The seven-month total was 13% ahead of the same period in 1971. [F. W. Dodge Division, McGraw-Hill Information Systems Co.]

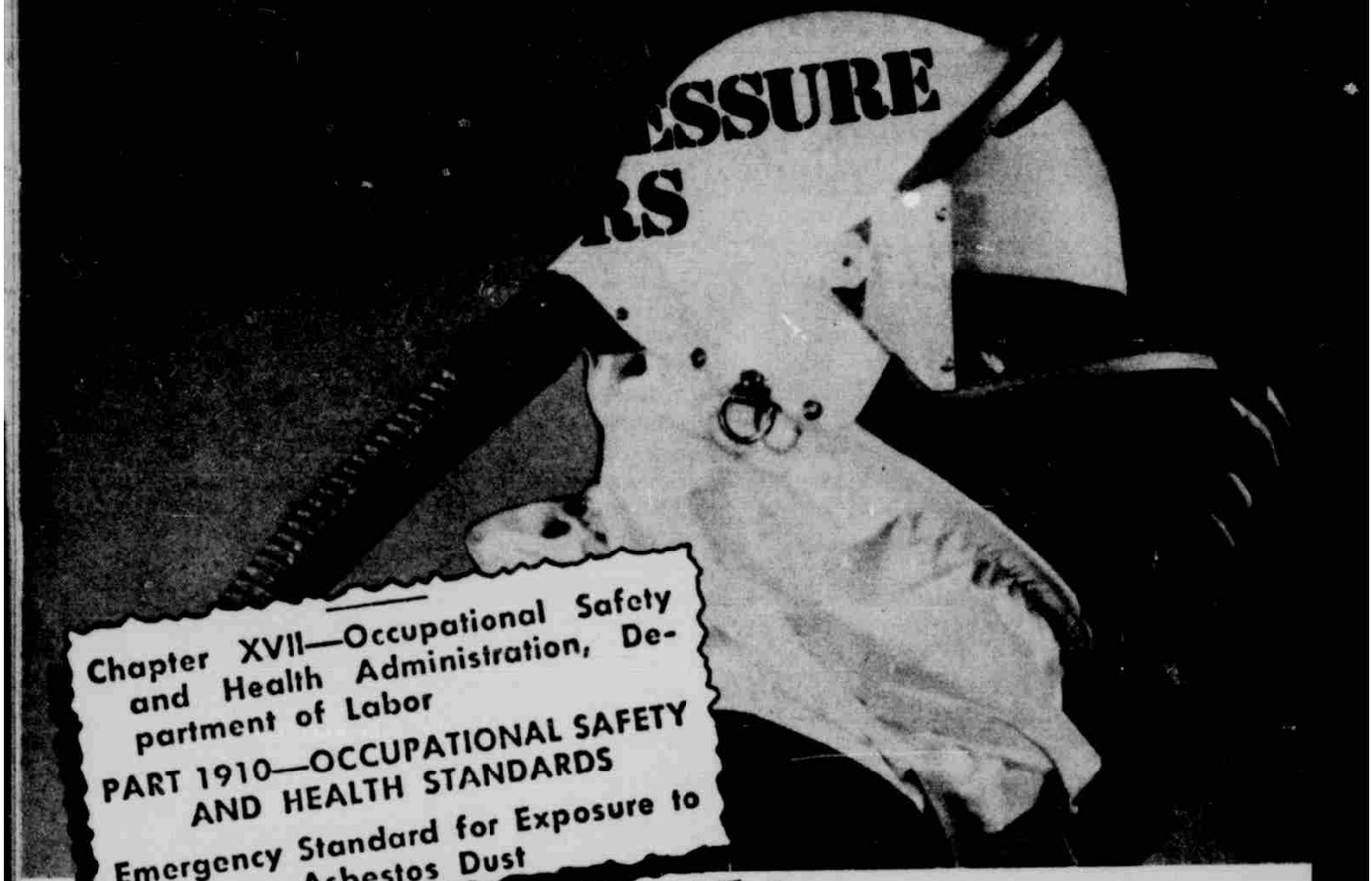
MOTOR VEHICLE FACTORY SALES

JUNE 1972 motor vehicle factory sales from plants in the *United States* totaled 1,024,848 (passenger cars—804,229; trucks and buses—220,619). The cumulative total for the First Half of 1972 was 5,978,836 compared with 5,700,525 for the same period in 1971. . . . Motor vehicle factory sales from plants in *Canada* totaled 146,311 in June 1972. The cumulative total for January-June 1972 was 805,513 against 738,046 for the like 1971 period. [Automobile Manufacturers Association]

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NOW REQUIRED, BY FEDERAL SAFETY REGULATIONS, FOR ASBESTOS WORKERS:

(FEDERAL REGISTER, VOL. 36, NO. 234 — DECEMBER 7, 1971)



Chapter XVII—Occupational Safety and Health Administration, Department of Labor

PART 1910—OCCUPATIONAL SAFETY AND HEALTH STANDARDS

Emergency Standard for Exposure to Asbestos Dust

(3) For an atmosphere containing not more than 250 fibers per milliliter greater than 5 microns in length over an 8-hour average, or more than 500 fibers per milliliter over any period of 15 minutes, a powered filter positive pressure respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 14 (Bureau of Mines Schedule 21B) shall be used.

THE ONLY SYSTEMS THAT MEET THIS SPEC. ARE ELECTRIC-POWER WHITECAP HELMET SYSTEMS!

(4) For an atmosphere containing more than 250 fibers per milliliter greater than 5 microns in length over an 8-hour average a type C positive pressure supplied-air respirator approved by the U.S. Bureau of Mines under the provisions of 30 CFR Part 12 (Bureau of Mines Schedule 19B) shall be used.

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PRODUCTION—IMPORTS—EXPORTS

Canada—Producers shipments of asbestos during *June 1972* totaled 171,183 short tons (143,326 tons from plants in Quebec and 27,857 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon). The total for June 1971 was 164,770 tons. . . . The cumulative total of producers' shipments for the *First Half of 1972* was 794,780 tons (643,274 tons from Quebec plants and 151,506 tons from plants in the other four Provinces). The total for the same period in 1971 was 760,499 tons. [Statistics Canada, Ottawa]

Canada—Production of vinyl-asbestos floor tile during the *First Half of 1972* totaled 99,835,800 square feet (45,871 tons) against shipments of 84,320,824 square feet (39,375 tons). Comparable figures for the previous year were 89,969,222 square feet (41,827 tons) produced and 82,925,194 square feet (38,999 tons) shipped. [Statistics Canada, Ottawa]

Cyprus—Asbestos production for the *First Half of 1972* totaled 13,708 short tons valued at £842,000, an increase over the 9,555 tons, valued at £508,890, reported for the first half of 1971. [Ministry of Commerce & Industry, Mines Department, Nicosia]

GOVERNMENT PUBLICATIONS

Australian Mineral Industry 1970 Review—Apparent consumption of all types of asbestos totaled 75,951 short tons and the average export value was $233.80 per short ton f.o.b. It is hoped that with Woodsreef Mines Ltd. in production, self-sufficiency in certain grades of Chrysotile will greatly increase and Australia might become a net exporter. [Bureau of Mineral Resources, Geology and Geophysics, Canberra]

Products Shipped by Canadian Manufacturers 1969—This Report lists the following values for products that contain asbestos: asbestos-cement boards and sheets—$3,013,841 (24,955,769 pounds); automotive wheels and brakes, including asbestos brake linings—$158,051,112; asbestos packing—$1,252,627; asbestos felt shingles and asphalt saturated rag—$24,734,979; asbestos felt roll and mineral surfaced rag—$2,067,502; asbestos felt siding and roll-type rag—$172,650 (46,498 roofing squares); asbestos felt roll and smooth surfaced rag—$1,883,823; asbestos felts and tar and asphalt saturated rag, not coated—$5,325,530; vinyl-asbestos floor tile—$17,826,094 (145,964,539 square feet); and other asbestos products, including clutch facings—$3,148,419. Quantity and value figures were kept confidential for asbestos cloth and paper and asbestos-cement pipe and shingles. [Catalogue 31-211, annual; 75c; Statistics Canada, Ottawa]

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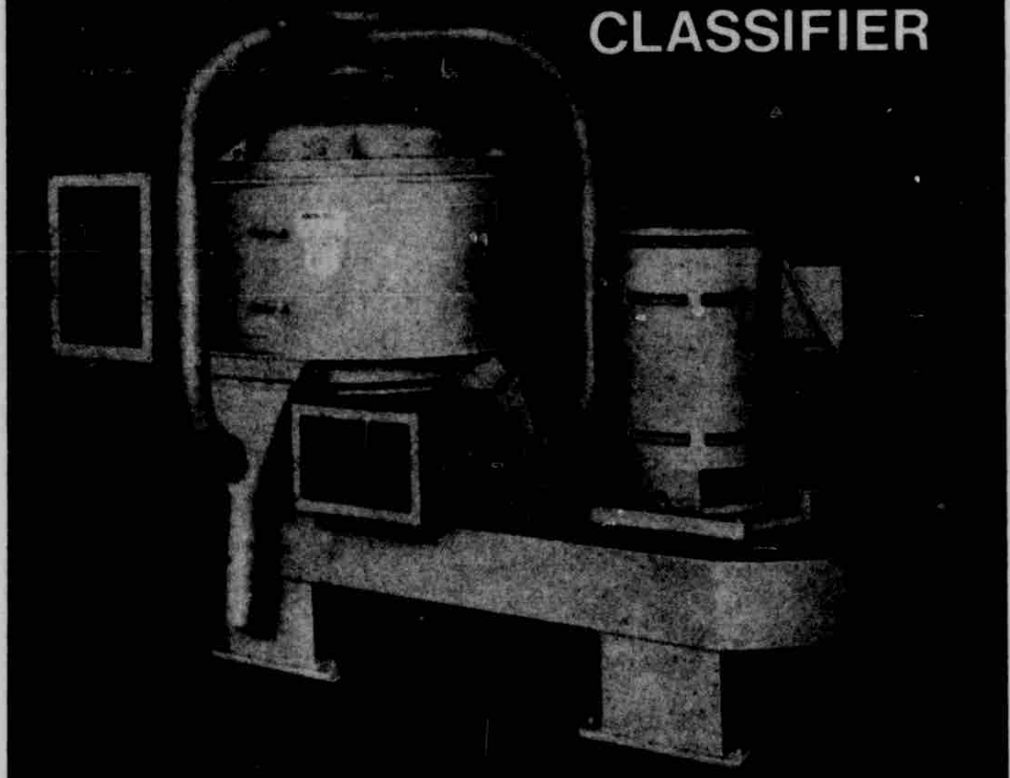
IMPORTS INTO U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:			**APRIL 1972**	
Amosite, Mozambique	s. tons	33	$	4,773
Republic of South Africa	s. tons	731		162,824
Crocidolite (Blue) South Africa	s. tons	444		109,726
Chrysotile, Spinning Fibers, Canada	s. tons	1,170		553,495
Chrysotile, Other, Canada	s. tons	60,068		6,627,850
Other Crudes & Fibers, Canada	s. tons	296		46,592
Finland	s. tons	347		19,652
South Africa	s. tons	212		43,963
		63,301	$	7,568,765
Manufactured Asbestos Goods:				
Asbestos yarn, slivers, etc.	Lb	231,961	$	241,296
A-C pipes, tubes and fittings	Lb	3,071,517		145,393
A-C articles, other	Lb	1,261,461		200,799
Asbestos articles, other		..		267,527
			$	855,015
			JANUARY-APRIL 1972	
Unmanufactured Asbestos:				
Amosite, Mozambique	s. tons	33	$	4,773
South Africa	s. tons	2,631		482,592
Crocidolite (Blue), Bolivia	s. tons	29		2,966
South Africa	s. tons	1,278		289,745
Chrysotile, Crude, South Africa	s. tons	330		73,499
Chrysotile, Spinning Fibers, Canada	s. tons	4,136		1,953,044
Chrysotile, Other, Canada	s. tons	231,982		27,015,744
Other Crudes & Fibers, Canada	s. tons	1,266		145,030
Finland	s. tons	1,086		67,992
Greece	s. tons	6		1,361
Italy	s. tons	1		1,111
Mozambique	s. tons	33		4,773
South Africa	s. tons	602		113,995
Switzerland	s. tons	4		1,538
		243,417		$30,158,163
Manufactured Asbestos Goods:				
Asbestos yarn, slivers, etc.	Lb	1,468,150	$	1,349,811
A-C pipes, tubes and fittings	Lb	13,766,816		665,853
A-C articles, other	Lb	6,415,073		1,045,889
Asbestos articles, other		..		888,726
			$	3,950,279

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INDUSTRY'S MOST EFFICIENT CLASSIFIER



THE BAUER CENTRI-SONIC

Here's a classifier which removes grit and unopened serpentine from asbestos fibre without extreme fiberizing . . . even separates completely fibre-bound magnetite. Unopened bundles of fibre can also be removed without loss of the opened fibre. Sharp "one-pass" classification at any desired particle size "cut" from 200 mesh to 15 micron. Applications also include removal of foreign material with little or no loss of product. 4 sizes available with capacities from 500 to 20,000 lbs./hr. Ask for Bulletin G-8.

The Bauer Bros. Co., a subsidiary of Combustion Engineering Inc., Springfield, Ohio 45501 and Brantford, Ontario.

CE BAUER

COMBUSTION ENGINEERING, INC.

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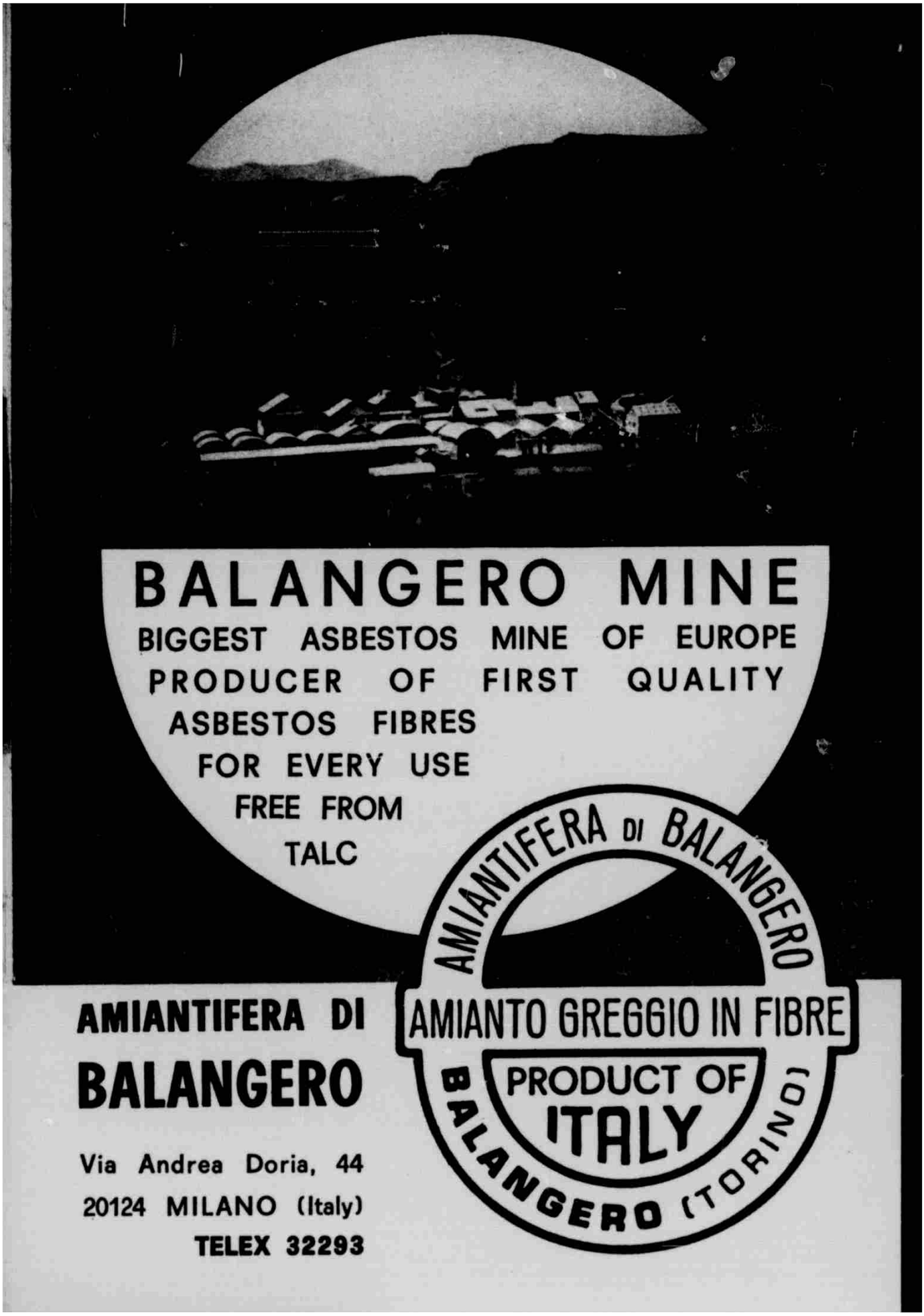
EXPORTS FROM U.S.A.

Figures from U.S. Bureau of the Census

Unmanufactured Asbestos:		**APRIL 1972**	
Fibers not further processed than beaten, washed or graded to length	s. tons	2,340	$ 334,606
Waste and refuse	s. tons	2,463	325,590
		4,803	$ 660,196
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	1,350,916	$ 162,353
Other a-c or fiber-cement articles	Lb	275,744	57,150
Gaskets	Lb	45,755	110,733
Packing	Lb	325,295	510,638
Heat or sound insulation		..	104,861
Textiles and yarns	Lb	..	267,909
Protective clothing		1,147,746	26,750
Mfrs. other than friction materials		..	422,898
Cl. facings and linings for auto. use	No	128,541	93,329
Other clutch facings and linings	No	127,041	42,745
Brake linings for automotive use	Lb	719,327	489,002
Other brake linings	Lb	286,971	209,275
			$ 2,497,643

Unmanufactured Asbestos:		**JANUARY-APRIL 1972**	
Fibers not further processed than beaten, washed or graded to length	s. tons	9,495	$ 1,361,711
Waste and refuse	s. tons	6,881	886,386
		16,376	$ 2,248,097
Manufactured Asbestos Goods:			
A-C shingles and clapboard	Lb	8,093,825	$ 843,124
Other a-c or fiber-cement articles	Lb	1,975,271	295,675
Gaskets	Lb	221,668	419,296
Packing	Lb	1,583,830	2,266,035
Heat or sound insulation		..	664,211
Textiles and yarns	Lb	6,595,630	1,375,160
Protective clothing		..	72,544
Mfrs. other than friction materials		..	1,426,572
Cl. facings and linings for auto. use	No	921,985	710,404
Other clutch facings and linings	No	383,267	173,219
Brake linings for automotive use	Lb	2,424,003	1,734,293
Other brake linings	Lb	945,799	754,570
			$10,735,103

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EXPORTS FROM CANADA

Figures from Statistics Canada

APRIL 1972

Short Tons

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	10	425	16,824	12,086
Eastern Europe	..	..	1,875	200
Middle East	..	..	785	652
Africa	..	..	950	..
Asia	3	18	3,990	2,367
Oceania	..	..	3,041	347
So. & Cen. America & Antilles	..	49	2,962	1,507
United States	..	1,448	15,433	43,027
	13	1,940	45,860	60,186

The total amount of unmanufactured asbestos exported in *April 1972* was 107,999 short tons, valued at $14,788,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 42,000
Asbestos-cement building materials	218,000
Other basic products	249,000
	$ 509,000

JANUARY-APRIL 1972

Unmanufactured Asbestos:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	13	3,148	61,755	39,004
Eastern Europe	..	50	11,609	396
Middle East	..	..	5,753	1,862
Africa	..	..	3,176	1,165
Asia	5	788	25,557	33,822
Oceania	..	7	12,825	2,156
So. & Cen. America & Antilles	..	179	22,710	9,997
United States	1	4,963	68,320	160,443
	19	9,135	211,705	248,845

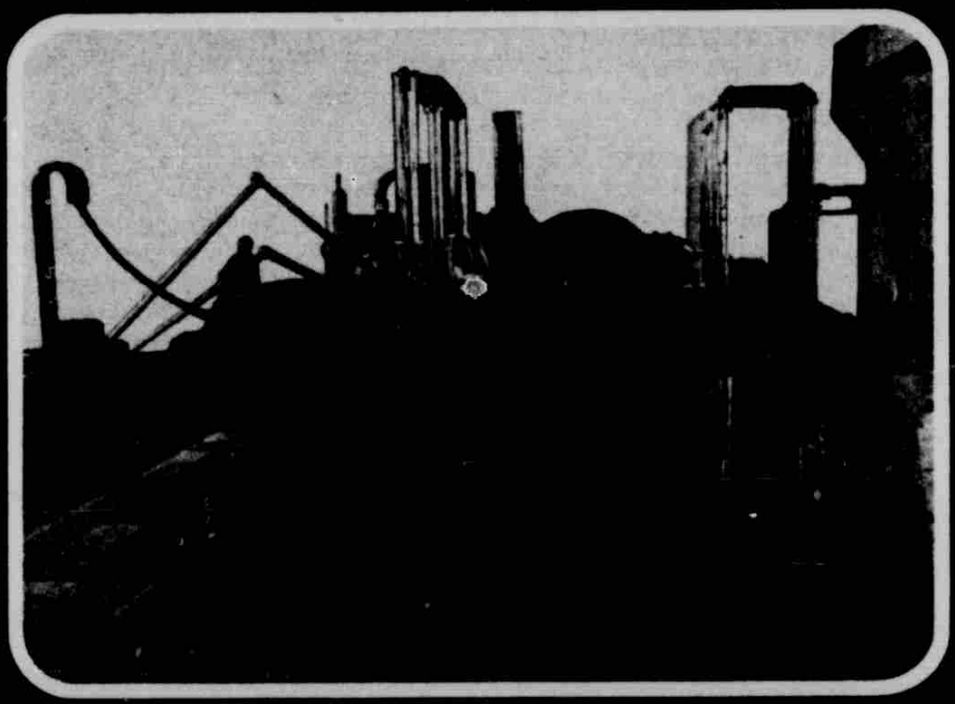
The total amount of unmanufactured asbestos exported in *January-April 1972* was 469,704 short tons, valued at $67,357,000.

Manufactured Asbestos Goods:

Brake linings and facings	$ 201,000
Asbestos-cement building materials	748,000
Other basic products	839,000
	$ 1,788,000

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MINERAL FACTS & PROBLEMS, 1970 EDITION

Part 18: Outlook/Demand

Demand for asbestos in the United States is expected to increase at a moderate rate and to occur within the range from 1,282,000 to 1,865,000 tons in the year 2000. The low of the range indicates an average annual growth rate of 1.4% while the high indicates 2.6%. The forecast was derived by contingency forecasting of major end-use demands considering possible shifts caused by changing technology during the forecast period. Higher-than-normal growth in demand was experienced during the decade between 1940 and 1950. By 1950 the total increase over the 1940 level was 200%; half occurring during the war years. Merely maintaining this level for an imported material in the face of increasing competition from low-cost synthetic products would be difficult, but demand for asbestos since 1950 has gained about 1% per annum. The 1968 demand for each end use was projected to the year 2000 at the forecast growth rates for appropriate economic indicators to arrive at a forecast base. The quantity of asbestos indicated by the projection method for each end use was modified to obtain a demand range contingent on the occurrence of technologic or other changes in the consuming industries. U.S. demand for asbestos in the year 2000 is expected to be nearly twice that of 1968. Demand from the rest of the world should show a faster growth rate since the developing countries have a greater new construction potential. The high of the forecast range for the rest of the world is established at ten million tons for the year 2000, an average annual growth rate of 4.2%. Should these countries be so beset with problems as to prevent an increase in general living standards, the expanded consumption of asbestos would be directly related to population with an average annual growth rate estimated at 2.2%.

Part 10: Outlook/Construction

Demand for asbestos for use in construction products is considered to be related to the forecast growth rate of 4.5% of total new construction. In accord with that presumed correlation, a forecast base of 2,949,000 tons for 2000 was established. However, the historical growth rate has been at a significantly lower rate than total new construction, a factor that must be taken into account. Also, substitution is possible in some end uses, particularly in paints, caulking and asbestos-cement products. The most apparent opportunity for an increase above the forecast base is paradoxically in the asbestos-cement products that are competitive with lumber and other building products, many of which are rapidly increasing in price. A judgment analysis of the demand contingency factors led to a forecast range for 2000 of 983,000 tons or ⅓ of the forecast base for the low and 1,475,000 or ½ of the base for the high.

NEXT ISSUE—OUTLOOK/TRANSPORTATION & TEXTILES

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NEW ASBESTOS DISCOVERY BY ABITIBI

An exploration diamond drill hole has located an asbestos-bearing structure about four miles southeast of the main "A" deposit of Abitibi Asbestos Mining Co. Ltd., located in Maizerets Township, Quebec. Abitibi states that considerably more exploration and test work is required to ascertain if the property will make a commercial deposit. . . . At the mine site in Maizerets Township, bunk houses and other facilities have been installed and construction of the pilot plant will soon begin. Stockpiling is to start in November. The project is being carried out under an agreement between Abitibi Asbestos and Brinco Ltd.

CELTIC/SENTINAL NOW ON THE SCENE

Celtic Minerals Ltd. has entered a tentative option agreement with Sentinal Resources Ltd. to acquire a 70% interest in an asbestos property in Cleveland Township, Quebec, in the same serpentine belt that contains the Johns-Manville and Pathfinder orebodies. An engineer's report and the final agreement are in preparation and will be submitted for regulatory authority approval. Both companies are incorporated with a British Columbia Charter; Sentinel in 1972 and Celtic in 1970. [Northern Miner]

PROGRESS AT CHIBOUGAMAU

Rio Tinto Canadian Exploration (Riocanex) recently completed an all-weather road and the underground work program is now underway at McAdam Mining Corporation's asbestos property near Chibougamau, Quebec. A 1000-foot incline is being sunk under the "C" zone which can be extended to cut across a complete section of the ore zones. Additional equipment has been installed at the pilot plant to facilitate reliable processing of the samples to determine the best methods of fiber extraction and preparation.

PAN OCEAN & PATHFINDER NEGOTIATING

Pathfinder Resources Ltd., Vancouver, and Pan Ocean Oil Corporation, New York City, are negotiating an agreement that, if consummated, will result in the development by Pan Ocean of Pathfinder's asbestos property in Cleveland Township, Quebec. According to Pathfinder, confirmatory drilling has indicated over 45 million tons of asbestos fiber-bearing material.

CERRO PROPOSAL APPROVED

Hellenic Industrial Development Bank S.A. (ETVA), a government-related bank in Greece, reportedly has approved in principle a $30 million asbestos-mining project proposed by Cerro Corporation. It is understood that ETVA plans to meet with local mining and manufacturing firms to obtain financing for a 100,000-ton-per-year asbestos mine and plant at the Zidani deposit near Kozani.

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BIRTHDAY GREETINGS TO . . .

John G. Stapler, General Manager, National Gypsum Company, Millington, New Jersey, October 16.

T. T. Tigert, Consulting Engineer, Cassiar Asbestos Corporation Ltd., Toronto, Ontario, October 16.

Wm. F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

Miss Frances E. Mett, President & Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.

J. G. Mooney, Industrial Relations Manager, Asbestos Corporation Ltd., Thetford Mines, Quebec, October 18.

R. B. Draper, Managing Director, Trist, Draper Ltd., Bristol, England, October 20.

Charles P. Miller, Treasurer & Director, Scandura Inc., subsidiary of BBA Group Ltd., Charlotte, North Carolina, October 20.

Monroe Harris, Vice President & General Manager, Pipe Division, Johns-Manville Corporation, Denver, Colorado, October 22.

William M. North, Corporate Senior Vice President, National Gypsum Company, Buffalo, New York, October 22.

James C. Murphy, Vice President, GAF Corporation, New York City, October 23.

Francis E. Dutcher, Vice President & Director, Building Materials Divisions, Johns-Manville Corporation, Denver, Colorado, October 24.

John H. Steiner, Chairman of the Board, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, October 24.

Boris A. Stern, Panacon Corporate Director of Quality Control, Philip Carey Company, Cincinnati, Ohio, October 24.

James W. Liddell, President, ACandS, Inc., Lancaster, Pennsylvania, October 26.

Richard W. Henry, Marketing Manager-Insulation and Construction Products, GAF Corporation, New York City, October 27.

J. R. Murdoch, General Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, October 27.

L. B. Petters, Chairman & Managing Director, Turners Asbestos Products Ltd., Jacobs, Durban, South Africa, October 27.

H. C. Morton, Senior Staff Engineer, Automotive Control Systems Group, Friction Materials Division, The Bendix Corporation, Troy, New York, October 28.

Walter R. Foote, Director of Manufacturing, Floor Products Division, GAF Corporation, New York City, October 30.

Max E. Meyer, President, North American Asbestos Corporation, Chicago, Illinois, October 31.

Paul S. Maco, General Manager, Insulation Products Division, Asbestospray Corporation, Newark, New Jersey, November 1.

J. Conrad Lavigne, Vice President & Director, Hedman Mines Ltd., Timmins, Ontario, November 2.

Milton Q. Scowcroft, Sales Manager, Asbestos Textile Division, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, November 3.

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Dirk Salomons, Director & President of the Board, Asbest-cementindustrie Asbestona N.V., Amersfoort, Holland, November 5.
Dr. Robert J. Merrill, President & General Manager, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, November 6.
Dr. Richard Gaze, Chairman, Cape Asbestos Fibres Ltd., London, England, November 9.
John A. McKinney, Vice President-Legal Services, Johns-Manville Corporation, Denver, Colorado, November 9.
Monte C. Carpenter, Vice President & General Manager, Building Products Group, The Flintkote Company, White Plains, New York, November 12.
Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.
W. B. Callan, Plant Manager, Normandie Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 14.
K. H. Dixon, Joint Managing Director, Turner Brothers Asbestos Co. Ltd., Rochdale, Lancashire, England, November 14.
Karl V. Lindell, President, Karl V. Lindell Associates Ltd., Danville, Quebec, November 14.
George L. Romine, Vice President, Director & Head of Friction Products Group, Abex Corporation, an operating company of IC Industries, New York City, November 14.

BOOKS, ARTICLES & PAPERS

The Outlook for Asbestos in Canada—Article by Noel W. Hendry, Vice President and General Sales Manager for Canadian Johns- Manville Co. Ltd.; the present status of asbestos production in Canada is examined and discussed in relation to developments in world markets and new asbestos mines in other countries; pertinent to present markets and future trends is the introduction of substitute materials and the replacement by substitution of products containing asbestos. [CIM Bulletin, August 1972; $2.00]

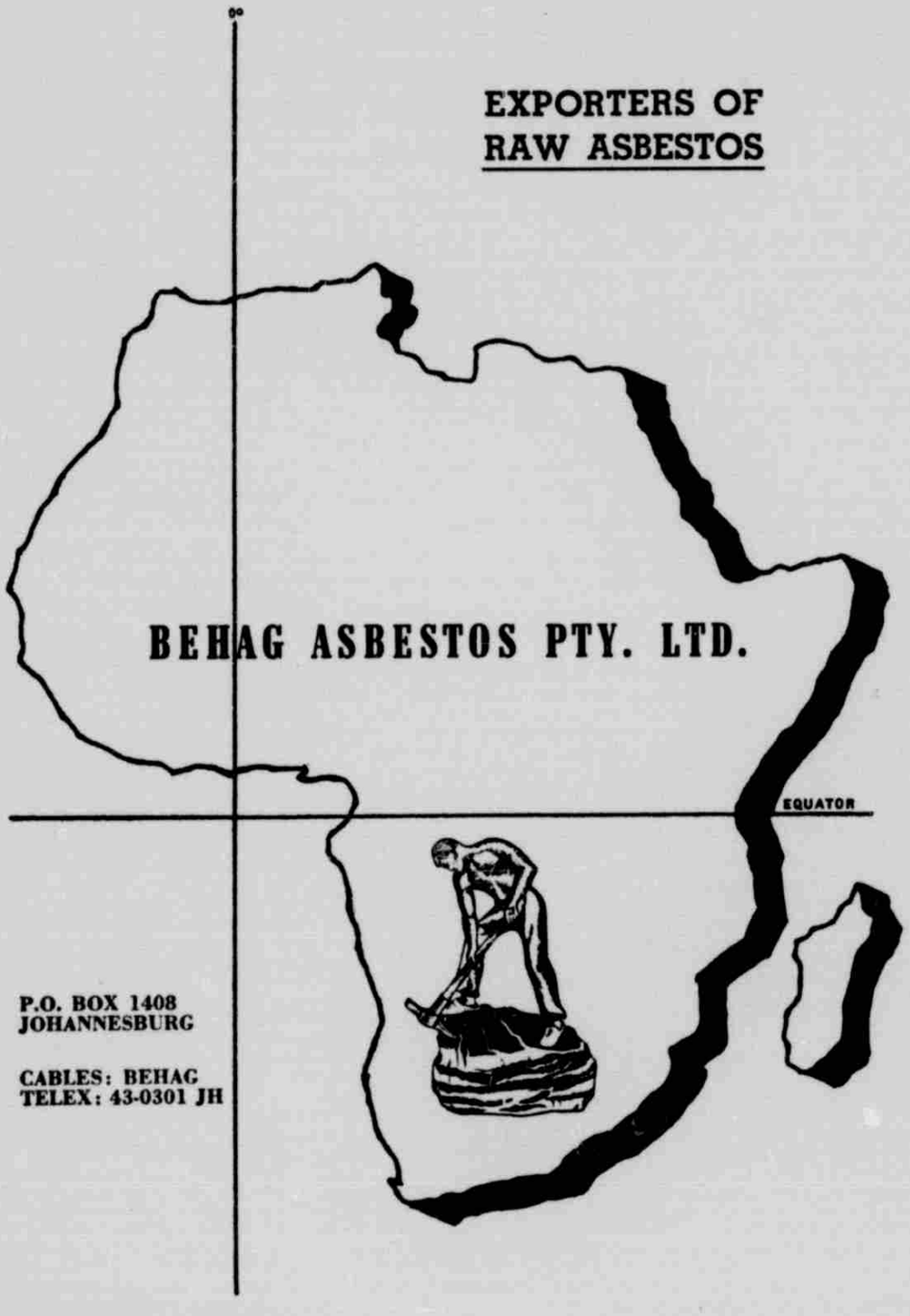
Environmental Law—Two volumes authored by Prof. Arnold W. Reitze, Jr.; Volume One covers the major pollution problems, (air, water and solid waste including recycling); Volume Two is concerned with the problems of transportation, energy production (including nuclear), land use, oceans and conservation. [$16.95 per volume, $30.20 for the set; North American International, Washington, D.C.]

The Science of Rock Mechanics—Part I on the "Strength Properties of Rocks" by Prof. Dr. W. Dreyer; part of a series of five books on "Rock and Soil Mechanics." [Trans Tech Publications, Cleveland, Ohio; $25.00]

Minerals Transportation—Proceedings of the First International Symposium on Transport and Handling of Minerals, Vancouver, British Columbia. [Published by World Mining, San Francisco, California; $25.50 per copy, post paid]

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NOTES FROM 1971 ANNUAL REPORTS

THE CAPE ASBESTOS CO. LTD.

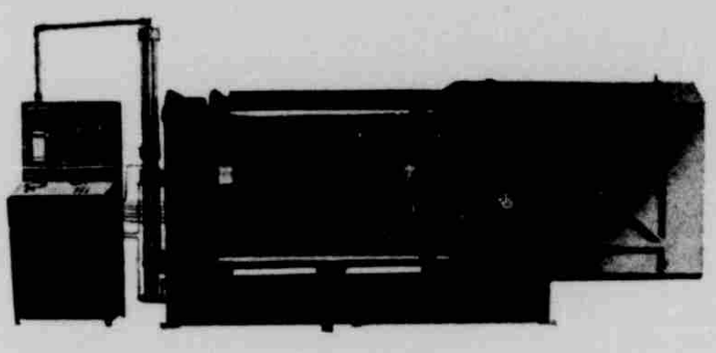
Results of the year's trading in 1971 showed a considerable improvement over 1970 for The Cape Asbestos Co. Ltd., London, England, arising from the measures taken in 1970 and 1971 toward the reduction of costs and an increase in output at manufacturing operations in the United Kingdom. After charging interest on loan capital and overdrafts, crediting income from investments and providing for tax and for the interests of minority shareholders in subsidiaries, £1,878,000 was left for distribution compared with £1,464,000 in 1970. Earnings from the Manufacturing Division improved by 45% to £2,019,000. Profits from the mines improved slightly to £1,706,000, although the need to convert overseas currencies to sterling at the new rates reduced the amount in sterling terms by £140,000. Due to difficulties encountered by Don International s.a., Belgium, since it commenced manufacturing friction materials in 1967, it was decided to reduce the scale of this company's operations but still maintain the foothold already gained within the European Economic Community. The Cape Group disposed of its holding in Oranje Roller Meule Beperk, Orange Free State, South Africa.

Manufacturing Division—Profitability was restored to more levels in the operations of Cape Universal Building Products Ltd., Watford, manufacturer of a wide range of building materials. Marinite Ltd., Glasgow, maker of incombustible panels for marine and land use, had a poor year largely as a result of inadequate control at the factory. Cape Insulation Ltd., Stirling, Scotland, again had a good year with further increases in sales and profits. Cape Asbestos (Ireland) Ltd. produced satisfactory results in carrying out contracting work from Dublin, Ireland. In South Africa, both Cape Asbestos Insulations (Pty) Ltd. and Caposite Applications (Pty) Ltd. reported small losses for the year. Successful years were reported for Trist, Draper Ltd., Bristol, and for Small and Parkes Ltd., Manchester. The demand for brake and clutch linings and disc pads for new motor vehicles was at a depressed level for most of the year. Replacement sales were good and total demand was showing an upward trend at the end of 1971. Exports of friction materials increased and the successful operations of licensee companies and associates are a steadily increasing source of revenue. At Benoni, South Africa, Cape Asbestos Insulations (Pty) Ltd. reported an increase in sales but an unsatisfactory overall performance at the factory.

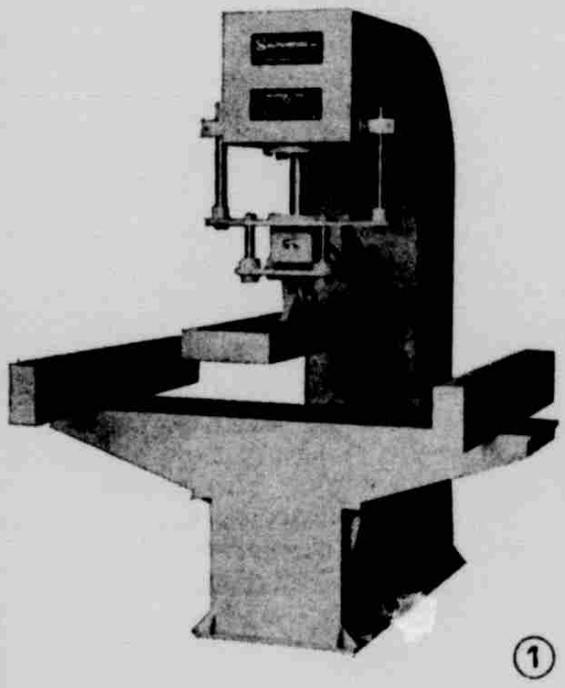
Mining Division—The tonnage of fiber produced from the Amosite mines at Penge increased only slightly in spite of the commissioning of an extension to the treatment plant designed to produce a new short grade of fiber known as S.44. The somewhat disappointing result was due mainly to a serious fall of hanging wall in the mine which limited the number of working places and created problems in the provision of sufficient ore of good quality to the mills. The Blue asbestos mines at Koegas and at Pomfret continued to be worked efficiently. Reserves at Pomfret were further extended and additions

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① Bending and crushing test press for sheet and pipes



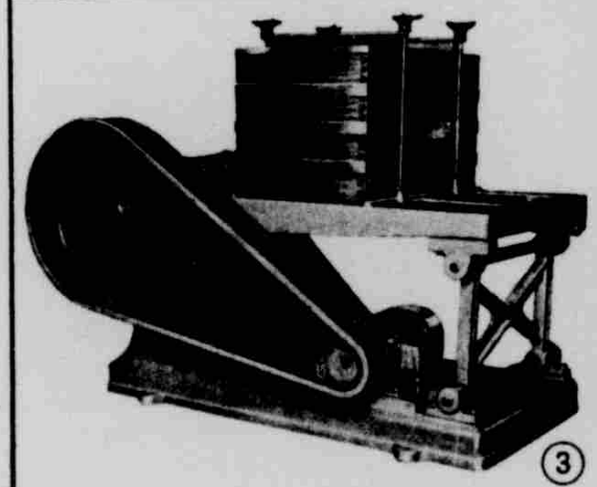
②



①

② Bursting test press for pipes

③ Classifier for testing asbestos fibres



③

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to the treatment plant were completed. Cape Asbestos Fibres Ltd., Johannesburg, and North American Asbestos Corporation, Chicago, Illinois, performed efficiently during the year in promoting sales and disposing of the output of the mines.

MSAULI ASBES LTD.

Msauli Abes Ltd., Johannesburg, Republic of South Africa, reported a consolidated net profit for the 18-month period ending December 31, 1971, of R762,278. Of this amount, R639,369 was earned during the first twelve months (R84,460 in 1970). Profits were adversely affected by a deterioration in the ore grade and a consequent increase in unit cost during the last quarter under review as well as by the slump in the market for Chrysotile asbestos which began in August 1971. Expenditures on fixed assets amounted to R501,000.

During the 18-months covered in this report, 1,203,384 tons of overburden were removed, 644,347 tons of ore were crushed and 60,698 tons of fiber were produced, with an average percentage fiber recovery of 9.42%.

Because of increasing depth of quarrying, it will soon become economical to gradually change from open-cast mining to underground stoping. The changeover will take approximately two years to complete. An accelerated tempo of pre-development is now possible and will be maintained for the next few years to promote selectivity in mining. Underground exploratory diamond drilling is being used to assist in planning the development and to gain an intensive, detailed assaying and evaluation of the orebody. Since year-end, the underground section of the New Quarry area has been made available for development by means of a main haulage system and the course of the Msauli River is in the process of being diverted to allow development and stoping at the sector that lies north of the Chris section.

Marketing prospects for 1972 are good and current indications are that total 1972 production will be sold.

Msauli Asbes continues to hold the entire issued share capital of two subsidiary companies. African Chrysotile Asbestos Ltd., the active mining company of the group, undertakes mining activities in the Barberton District of the Eastern Transvaal. Msauli Krisotielasbes Ltd. has not done any business during the period under review.

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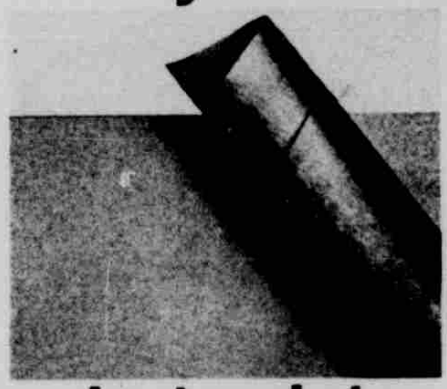
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ASBESTOS STOCK QUOTATIONS

CLOSE—AUGUST 15, 1972

Abitibi Asbestos	*$2.50	G&W (when traded)	13⅛
Advocate Mines	*$1.55	G&W (pfd 1.75)	124
Allied Mining	*$3.15	G&W (pfd 3.50)	159½
Asarco	18⅜	G&W (pfd 3.87)	71¾
Armstrong Cork	39⅝	G&W (pfd 5.75)	72
Armst Cork (pfd 3.75)	54¼	Illinois Central	32⅞
Asbestos Corporation	*$20.00	Ill. Central (pfd 3.50)	56¼
Bendix	45¾	Jim Walter Corporation	27¾
Bendix (pfd 3)	71	Jim Walter (pfd 1.60)	32⅞
Carlisle	21	Johns-Manville	30¾
Cassiar Asbestos	*$16.25	Kennecott Copper	22
Cerro Corporation	13¾	Maremont	38¼
Certain-teed Products	22⅜	McAdam Mining	*$.46
C-teed (pfd .90)	45	National Gypsum	17½
Conwest	*$7.00	Natl Gypsum (pfd 4.50)	69½
Flintkote	27⅜	Pathfinder	*$1.27
F-kote (pfd-A 4.50)	77	Porter (pfd 5.50)	82½
F-kote (pfd-B 2.25)	36¼	Raybestos-Manhattan	28⅜
Freeport Minerals	22	Rio Algom	*$20.00
GAF Corporation	23½	Royal Industries	11⅝
GAF (pfd 1.20)	30½	Unarco	13⅛
Garlock	19⅛	Union Carbide	50
Grace	27½	Uniroyal	16¼
Gulf & Western	38¼	Uniroyal (pfd 8)	104
		United Asbestos	3⅞

*Canadian Currency
(Sources: The Wall Street Journal & The Northern Miner)

U.S. TECHNICAL DOCUMENTS

The following are available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22151. Cost per paper copy is designated at the end of each listing. Microfiche reproduction is priced at 95c per document. Prepayment is required. Please specify Report Number when ordering.

PB 207 710—Calculation of Amphibole Structural Formulae, by F. E. Goff & G. K. Czamanske, U.S. Geological Survey, Menlo Park, California. [1972; $3.00]

PB 209 477—Development of a Rapid Survey Method of Sampling and Analysis for Asbestos in Ambient Air, by R. E. Heffelfinger, et al, Battelle Columbus Laboratories, Columbus, Ohio. [1972; $3.00]

PB 209 510—Criteria for a Recommended Standard/Occupational Exposure to Asbestos, National Institute for Occupational Safety and Health, Rockville, Maryland. [1972; $3.00]

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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D.C. 20231, at a cost of 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittance should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be shown.

French 1,583,630—A composition for forming smooth, waterproof, decorative coatings on smooth concrete brick or the like; consists of a mixture of powdered polyvinyl acetate, cement methyl cellulose, asbestos and a low-cost filler; P. Egot & Y. Burgand; October 13, 1969; 2 pages.

French 1,587,079—An exothermic composition for lining ingot or foundry molds in which small castings are formed; comprises optimum proportions of chamotte or silica sand, aluminum powder, manganese dioxide, asbestos, cryolite, fluorspar, resin and wood flour; assigned to Doittau Produits Metallurgie, February 2, 1970; 6 pages.

Russian 270,563—In the manufacture of molded building or insulation products, an aqueous slurry of optimum proportions of magnesium hydroxide, magnesium carbonate trihydrate and asbestos is poured into molds, the casts heated at 80-90°C. and the shapes removed from the molds and dried at 110-130°C.; R. I. Arav; assigned to Crimean Section, Building Materials and Articles Research Institute, August 12, 1970; 1 page.

Russian 284,674—A composition for thermally insulating roofs or for insulating automobile bodies against heat and vibration; comprises 44-50% of a bitumen, 30-37% of asbestos, 8-12% of ground rubber and 3-5% each of coumarone resin and abietic acid; D. D. Surmeli, et al.; assigned to the Asbestos and Cement Industry Research Institute and the Tractor Materials Research Institute, January 6, 1971; 2 pages.

Russian 285,564—In a method of controlling the defiberization of asbestos ore in water, the plastic viscosity of the suspension is continuously determined, the readings plotted on a chart and the process terminated when the viscosity curve approaches asymptotically a straight line running parallel with the time axis; T. M. Berkovich, L. S. Zevin & L. S. Parchof; assigned to Asbestos-Cement Industry Research and Development Institute, January 20, 1971; 2 pages.

Russian 290,007—Gunning refractories of improved thermal and mechanical properties; consists of a mixture of 50-85% by weight of chamotte powder, 5-25% of asbestos, 3-14% of fireclay and an optimum amount of sodium phosphate as a binder; N. D. Peshekhonov, V. I. Nesterov & L. T. Khokhlova; assigned to Eastern Branch, Dzerzhinski Thermal Technology Research Institute, February 4, 1971; 1 page.

Russian 290,009—An insulation composition for use in the shipbuilding industry; comprises 50-55 parts by weight of asbestos, 40-43 parts of water glass, at least 5 parts of glass wool and 5-7 parts of powdered kaolin or chalk; I. M. Shur & A. D. Charkov; February 4, 1971; 2 pages.

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CALENDAR OF EVENTS

Noise in Manufacturing Plants—seminars by L. N. Miller of Bolt Beranek and Newton Inc.; *October 2-4* in Kansas City, Missouri; *October 16-18* in Atlanta, Georgia.

Continuing Education Programs—University of Wisconsin Extension, to be held during *October* at Madison, Wisconsin, unless otherwise noted: Applications of Remote Sensing to Urban and Regional Planning, *5-6;* Guiding Industry to Metric System Conversion (Milwaukee), *5-6;* Marketing Techniques for Engineering Managers (Milwaukee), *5-6;* Industrial Telemetry Systems, *16-17;* Project Management for New Product Development, *16-17;* Value Engineering for Construction Projects, *16-17;* Nondestructive Testing, *23-24;* Industrial Noise Control, *25-26.*

ASTM Committee C-20 on Acoustical Materials—Playboy Towers, Chicago, Illinois; *October 16-18.*

Business Equipment Exposition—McCormick Place, Chicago, Illinois; *October 16-20.*

Instrumento Expo 72—an instrument and systems exhibition; U.S. Regional Trade Center, Buenos Aires, Argentina; *October 16-20.*

Material Handling Equipment Exhibition—Paris Trade Center, Paris, France; *October 16-20.*

ASTM Committee D-13 on Textile Materials—includes a meeting of Sub-Committee 14 to discuss heat aging tests for asbestos; Belmont Plaza Hotel, New York City; *October 16-20.*

15th Annual International Mobile Air Conditing Symposium and Trade Show—Market Hall, Dallas, Texas; *October 17-18.*

Fluid Sealing Association—Fall Meeting; Hilton Head Inn, Hilton Head Island, South Carolina; *October 18-20.*

ASTM Committee D-14 on Adhesives—Holiday Inn-Fisherman's Wharf, San Francisco, California; *October 18-20.*

Automatic Control Conference—National Research Council; Laval University, Quebec City, Canada;*October 19-20.*

ASTM Committee G-3 on Deterioration of Nonmetallic Materials—ASTM Headquarters and the Sheraton Hotel, Philadelphia, Pennsylvania; *October 23-24.*

19th Spectroscopy Symposium and Exhibition—sponsored by the Spectroscopy Society of Canada; Le Chateau Champlain Hotel, Montreal, Quebec, Canada; *October 23-25.*

Construction, Industry and Business—Seminar and International Exhibition; Buenos Aires Municipal Center, Buenos Aires, Argentina; *October 23-28.*

Asbestos Magazine, 1972, September 1972
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The Greeks didn't have a word for it.

The ancient Greeks called asbestos 'unquenchable'. Not, perhaps, the most apt of descriptions. 'Incomparable' might have been better.

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Remember When?

(September 1922 ASBESTOS)

The Department of Mines & Industries of the Union of South Africa reported shipments of asbestos for May 1922 as 41 tons valued at £578 from the Transvaal and 161 tons valued at £3436 from Cape Province.

With great regret ASBESTOS reported the death of William A. Macan, Vice President of the Ehret Magnesia Manufacturing Company. His demise ended a span of thirty-five years as a leader in the manufacture and sale of 85% Magnesia heat insulations.

It was noted that during July, purchases of new railroad equipment amounted to 353 steam locomotives, 15,675 freight cars and 120 passenger cars. The largest order for locomotives was that of the New York Central Railroad for 150.

Canadian Johns-Manville Company Ltd. was laying a railroad track, two miles in length, from the Jeffrey Mine to the mills. A new crushing plant, designed to crush 500 tons of rock per hour, was being constructed at the mills.

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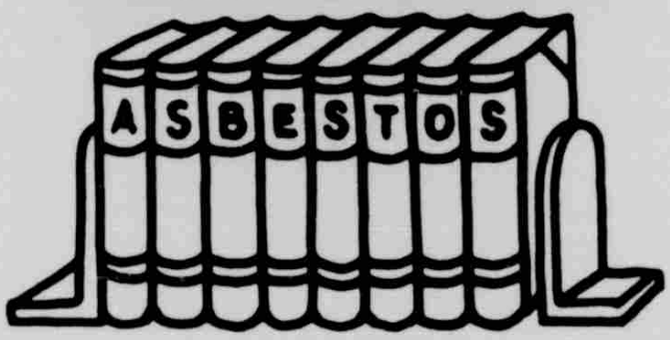
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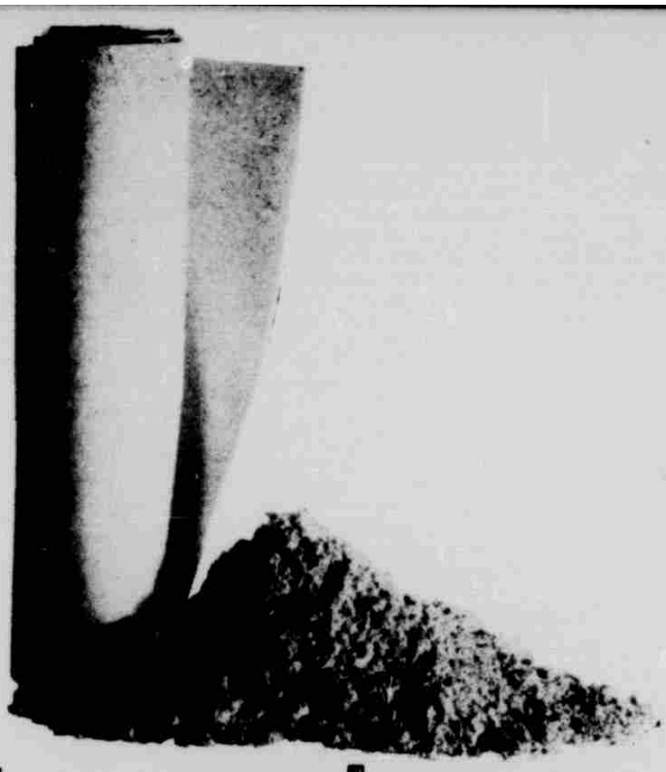
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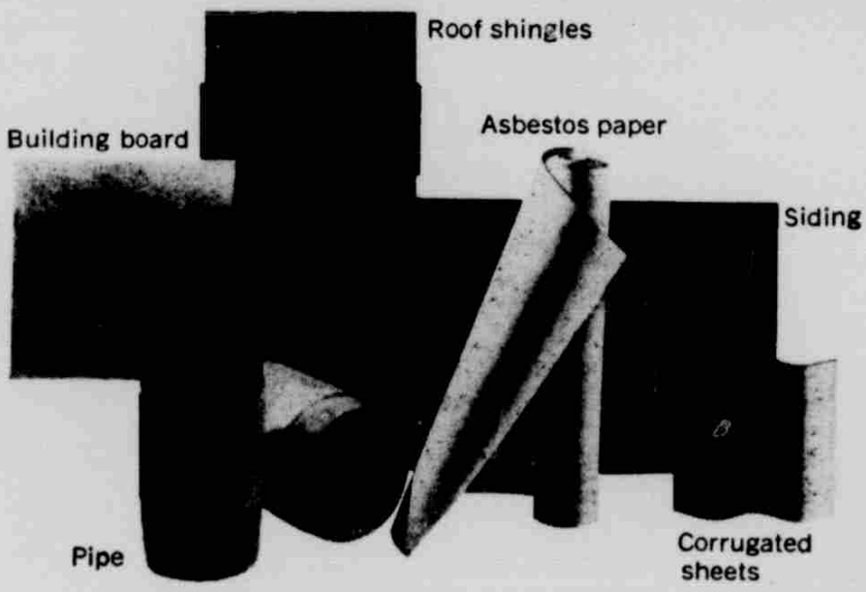
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